



Switching & Controls

► Catalogue

OUR COMMITMENT MAKES THE DIFFERENCE ►

BACO®

Baco fully committed into the future

A Key player on the market for control and signalling units, cam switches and switch disconnectors, Baco is recognized for its professional expertise and compliance with safety standards. Baco is committed to a quality charter based on the quality and reliability of its numerous and flexible solutions.

CONTROL AND SIGNALLING UNITS

► A wide range

- Excellent modularity for a large choice of combinations with a minimum number of items
- Customised products to meet the most specific needs



CAM SWITCHES

► A reference on the market

- A worldwide reputation of know-how for more than 50 years
- A range from 10 to 250 A (panel mount or enclosed)
- More than 50,000 different electrical diagrams available
- Numerous specific functions and special engravings



SWITCH DISCONNECTORS

► Great flexibility in use

- Compactness
- Infinite number of combinations for customised applications
- Reversible terminal blocks for front or rear mounting saving valuable time during installation



THE BACO QUALITY REQUIREMENT

Our products have a 10-year guarantee and are exceptionally reliable, that is why they are ideal for integration into systems that do not tolerate any failure (military, aeronautical, space exploration, medical research equipment, etc.). Moreover, BACO product ranges offer ingenious and reliable solutions that are fast and easy to implement.

That's why Baco is now providing a 10-year guarantee on all products. This guarantee strengthens the assurance of having a solid and committed brand by your side. With Baco, you can be sure that you have made the right choice.



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NZ13GXQ		172	Q93		265	WE60		281	172199	222239	315	174259	222271	312	
NZ51BQ1		176	Q93		283	WE61		281	172200		310	174259	222271	315	
NZ51BXQ		176	Q95		265	WE63		281	172201		222104	295	174261	222120	305
NZ52BQ1		182	Q95		283	WE65		281	172202		222124	296	174269	222273	309
NZ52BXQ		182	Q96		283	WE67		281	172221	222114	295	174269	222273	312	
NZ52CQ1		182	Q96GC60		264	WE70		281	172261		299	174269	222273	315	
NZ52CXQ		182	Q96GN60		264	WE71		281	172265		222214	310	174301	222167	301
PC50		280	Q98		265	WE73		281	172267		222270	309	174302	222191	302
PC51		266	SB01AQ1		136	WE75		281	172267	222270	312	174305	222198	304	
PC51		280	SB01AXQ	227406	137	WE77		281	172267		315	174361	222121	305	
PC53		266	SB02AQ1		136	WE90		281	172275		222204	310	174399	222243	308
PC53		280	SB02AXQ		137	WE91		281	172277		222272	309	174401	222168	301
PC60		280	SB03AQ1		227407	136	WE93		281	172277	222272	312	174402	222192	302
PC61		266	SB03AXQ	227592	137	WE95		281	172277		315	174405	222199	304	
PC61		280	SB03EQ1		136	WR01		269	172300		222150	310	174449	222299	309
PC63		266	SB04AQ1		227408	136	WR02		269		172301	222105	295	174461	222128
PC63		280	SB04AXQ			137	WR03		269	172302	222125	296	174501	222169	301
PCD50	280	SB04EQ1	227593	136		WR04		269	172321	222115	295	174502	222193	302	
PCD51		280	SC01GQ1	227435		149	ZB01AQ7	227415	138	172361		299	174505	222200	304
PCD53		280	SC01GXQ			150	ZB01AXQ		138	172365		310	174559	222285	309
PCD60		280	SC02GQ1		149	ZB02AQ7		138	172367	222233		312	174561	222129	304
PCD61		280	SC02GXQ		150	ZB02AXQ		138	172375	222205	310	174569	222286	309	
PCD63		280	SC03GQ1	227438	149	ZB03AQ7	227417	138	172377		312	174599	222284	309	
PN50		279	SC03GXQ		150	ZB03AXQ		138	172385		222223	310	174601	222255	307
PN51		266	SC04GQ1		149	ZB03EQ7	227596	138	172395		222226	310	174601	222255	311
PN51		279	SC04GXQ		150	ZB04AQ7	227418	138	172399	222242	308	174621	222257	314	
PN53		266	SC51DQ1		158	ZB04AXQ		138	172400		313	174901	222163	300	
PN53		279	SC51DXQ		159	ZC01GQ7		151	172401		222106	295			
PND50		279	SC52DQ1		158	ZC01GXQ		152	172402		222126	296			
PND51		279	SC52DXQ		159	ZC02GQ7	227446	151	172421	222116	295				
PND53		279	SC53DQ1	227514	158	ZC02GXQ		152	172461		299				
Q048		282	SC53DXQ		159	ZC03GQ7		151	172465		222216	313			
Q064		282	SC54DQ1		158	ZC03GXQ		152	172475		222206	313			
Q072		282	SC54DXQ		159	ZC04GQ7	227448	151	172500	222180	313				
Q41		265	SD01AQ1		199	ZC04GXQ	227743	152	172501		295				
Q41		283	SD01AXQ		199	ZC51DQ7		160	172502		222127	296			
Q410		265	SD02AQ1		199	ZC51DXQ									

Heads, blocks and connection...

designed to last!



► HEAD

"Cleverly designed to be both ergonomic and clearly visible"

- Insulating material ensures electrical safety
- Integrated anti-rotation tab
- Legend holder frame keeps IP 66 + IP 69K protection
- Optimised ergonomic design
- Choice of bezels: black or chrome plastic
- Innovative and varied functions
- Optimised dimensions

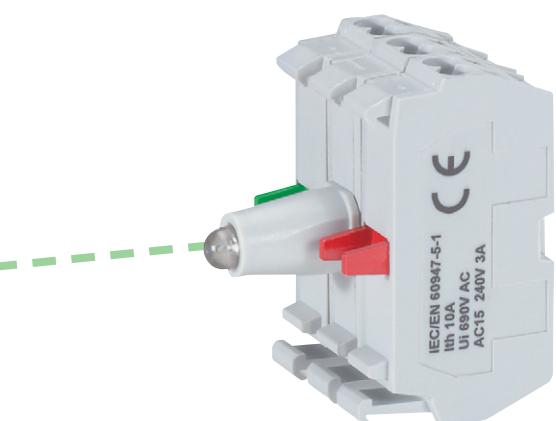
See pages 23 to 50

► CLIP

*"Flexibility of configuration: 1, 3 or 5 position clips
Contact blocks can be assembled in any order..."*

- Enhanced rigidity
- For 1, 3 and 5 blocks
- Blocks are simply snapped onto the clip

See page 69



► BLOCK

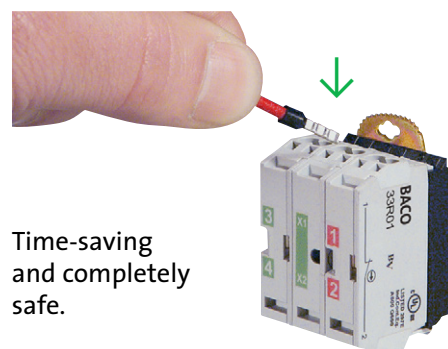
“Imagatively designed to be safe, robust and durable”

- Securely fixed by clipping into place
- Stackable
- Grade protection: IP 20 as “finger safe” on screw and plug-in terminals
- Electrical insulation
- LED blocks combining long life and economy (100,000 hours)
- Corrosion resistant to some chemicals and sea air, etc
- Conform to standard EN/IEC 60947-5-1
- Compliant with RoHS European directive (concerning restriction of hazardous substances)

See pages 52 to 68

► CONNECTION

PLUG-IN TERMINALS



Time-saving and completely safe.

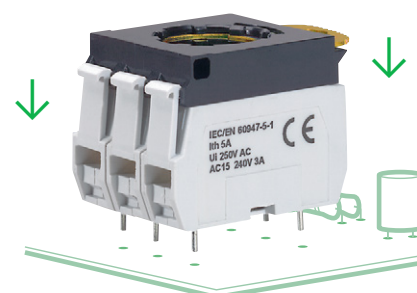
SCREW TERMINALS



FASTON TERMINALS



PIN STYLE TERMINALS (FOR PCB)



New heads...

robust and clearly marked!



► ADVANTAGES

We're full of innovative ideas from listening to your needs, and watching you work

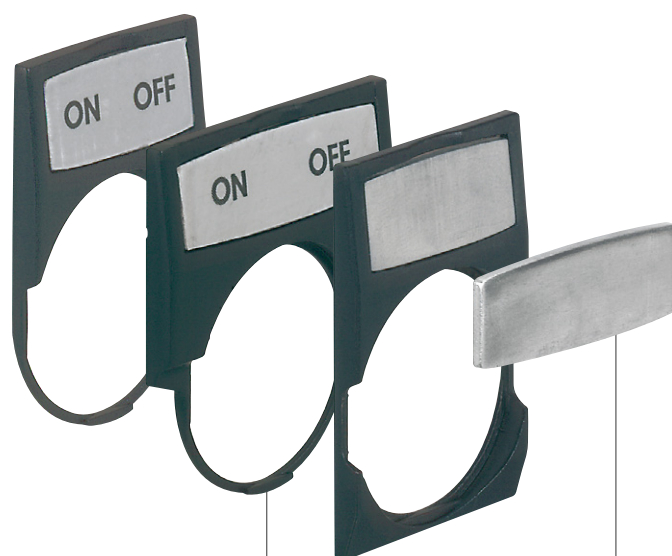
- On all heads, rotation is prevented by a tab which retracts when not required
- Insulating material ensures electrical safety
- Design and shape help avoid build-up of dirt and make the switch easy to clean
- ISO 13850 illuminated mushroom head with yellow collar for side-on visual indication
- Optimised ergonomic design
- Innovative functions: illuminated emergency stop mushroom head, etc
- Optimised dimensions: low-profile heads



Engraving
Button plate can be mounted in
4 positions (0° ; 90° ; 180° and 270°)

► MARKING WITH LEGENDS

- Frame can be turned to 4 positions (0° ; 90° ; 180° and 270°)
- Special legend plate for double touch
- Legend plates: choice between 5 colours, blank or pre-engraved



Frame
round or square shape,
30 or 40 mm wide

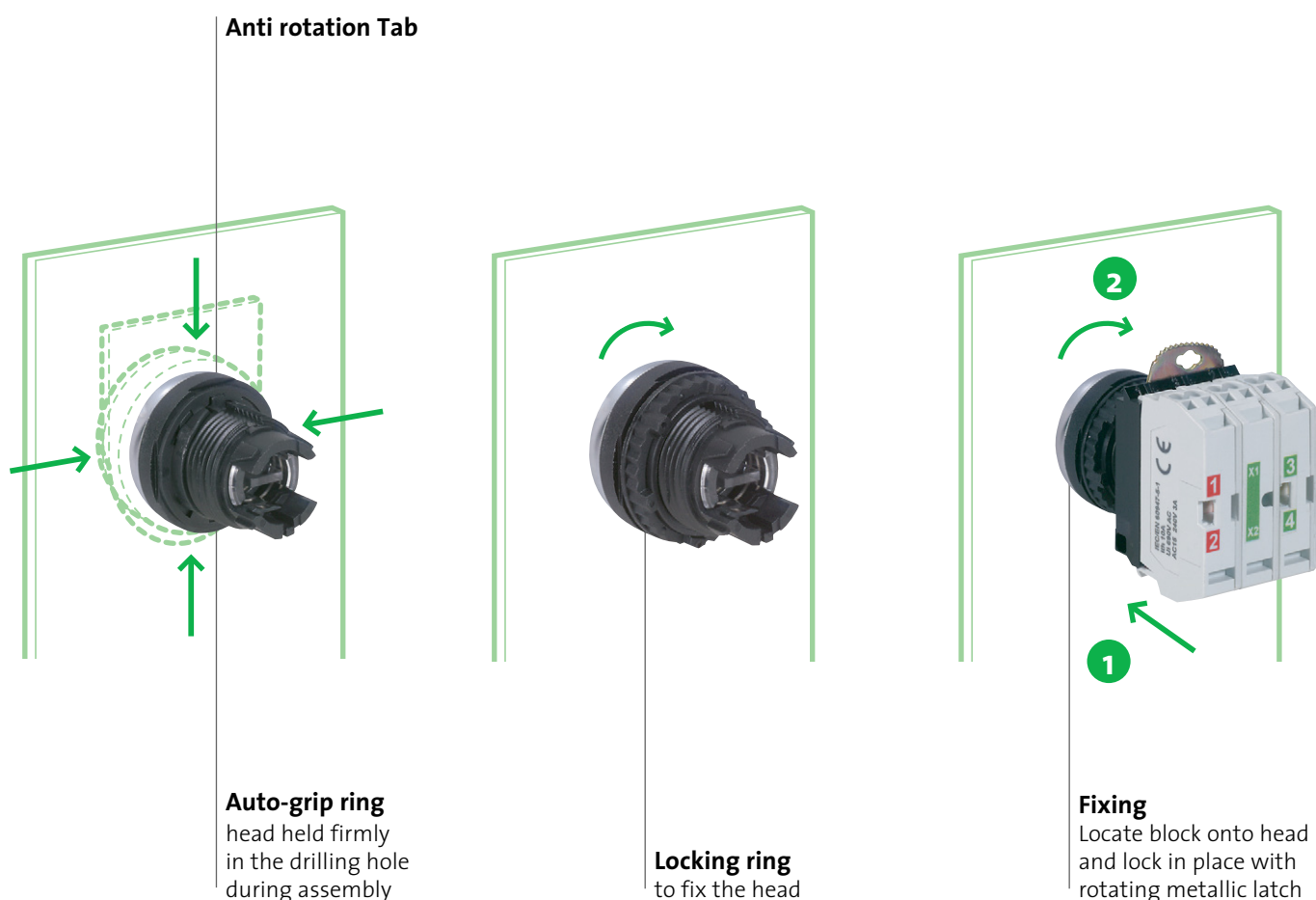
Legend plate
can be clipped into
place after installation

► READY-ASSEMBLED CONTROL STATION

- Innovative design
 - 1, 2 or 3 buttons
- See page 86



Simplicity, speed, choice!



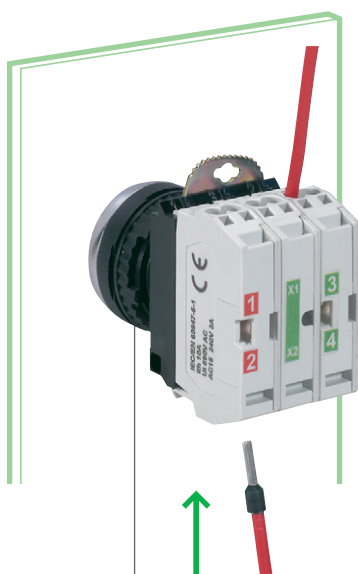
► ADVANTAGES

Our objective is to simplify and shorten time of installation:

- Head held firmly in place by auto-grip ring, allows single-hand mounting
- Foolproof method of positioning the block sub-assembly correctly on the head
- Rotating metallic latch easily accessible with a screwdriver where space is limited
- Anti rotation tab to be aligned with notch of panel cut-out (p. 95), retracts when not required

Method for tightening the locking ring:

Tightening torque: 3 Nm or tightened with fixing tool (p. 82) to hand tight after pressure point plus another half turn.



Quick connection

No tool required for wires with ferrules.
New plug-in terminals

► CONFIGURATIONS

"A range designed to meet adapt to all requirements and all situations"

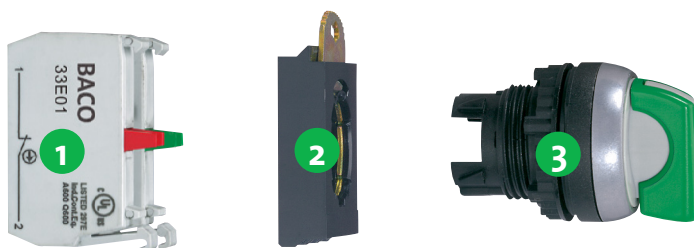
COMPLETE UNITS

- Control and signalling units are supplied ready for use with head and pre-assembled block/clip
- A single product code provides a solution for the most common needs



SEPARATE UNITS

- Maximum flexibility
- For numerous possible solutions



CUSTOMISED SOLUTIONS (request form p. 83)

- Custom assemblies to suit your needs
- The Baco response for specific requirements: pre-assembly, aesthetic design, engraving, etc



Products for industrial environments

► BACO PROVIDES SOLUTIONS FOR HARSH INDUSTRIAL ENVIRONMENTS

BACO push buttons Ø 22mm are available in plastic bodies and can be fitted with an external shroud to protect against liquid and dust ingress into the head itself.

All front elements are rated to a minimum IP 66 environmental rating, protecting against high seas, sprayed water and dirt. Many standard operators have more stringent IP 67 and IP 69K ratings, protecting from submersion and high-pressure/high-temperature wash down environments.



IP 66 - IP 69K E-Stops



IP 66 - IP 69K operators



IP 66 - IP 69K selectors



IP 66 - IP 69K pilot devices



► ACCESSORIES TO PERFORM

BACO Ø 22mm control and signalling devices can be equipped with protective shrouds which guarantee a degree of protection to IP 67 shrouds prevent ingress of water and dust.



Shrouds for Twin touch operator



Shrouds for projected operator



Shrouds for flush operator



IP 67 Shrouded Twin touch operator



IP 67 Shrouded projected operator

BACO operators to meet the needs of industries such as:

Outdoor Machinery

Food processing

Pharmaceutical

Petrochemical

Waste Treatment

Bottling

Car Wash Centers

Trucking/Transportation

Mobile Machines

Material Handling

Marine

Metal Forming

Mining

Oil & Gas

Degree of ingress protection

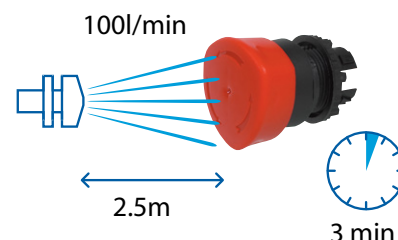
► WHAT IS THE MEANING OF IP 66/67/69K PROTECTION DEGREE?

IP 66/IP 67 protection degrees are degrees of protection provided by the standard (respectively against strong water jets and temporary water immersion). BACO has introduced on its products IP 69K protection degree (against water jets with high temperature and pressure), to offer the maximum achievable and testable performances, fulfilling more strict standards.

Illuminated or non-illuminated, momentary or maintained action pushbuttons, selector switches, emergency stop buttons and pilot devices for harsh environments, sealed to IP 67 or IP 69K when manufactured after week 36_2015.

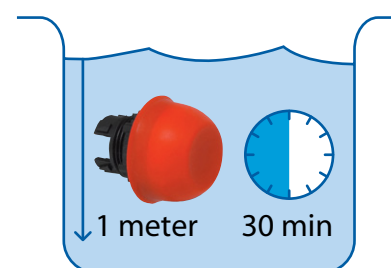
► WATERPROOF ACCORDING TO IP 66

BACO's control & pilot devices are protected from total dust ingress. Protected from high pressure water jets from any direction too.



► WATERPROOF ACCORDING TO IP 67

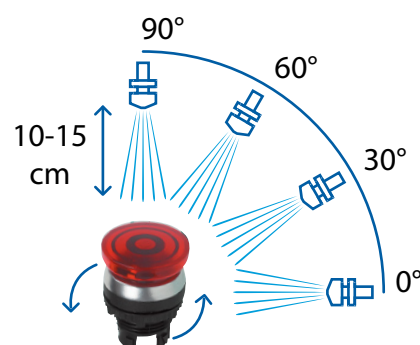
BACO's control & pilot devices are perfect for tough environments where a waterproof enclosure is required. Shrouded modular devices are approved according to IP 67. The products are protected against the effects of temporary immersion in water, one meter down, for up to 30 minutes.



► TOUGH AND ROBUST ACCORDING TO IP 69K

The IP 69K certification was initially developed for applications that need regular intensive cleaning (dump trucks, cement mixers, etc.).

BACO's control devices are certified according to IP 69K meaning you do not have to worry about treating them rough. Spray them with water or leave them out in the snow. They will stay reliable and functional.



Industrial vehicles



Outdoor machinery



Mining



Marine

Complete units: Push-buttons ø 22

IP 66 - IP 69K
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

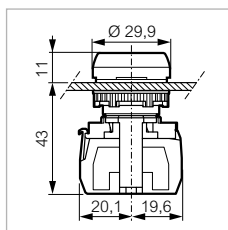
► SPRING RETURN - NON ILLUMINATED

FLUSH

Cat. No.



L21AA02A



Without engraving

- Red
- Green
- Black
- Yellow
- Blue

NC	21	22
NO	13	14
NO	13	14
NO	13	14
NO	13	14

L21AA01B
L21AA02A
L21AA03A
L21AA04C
L21AA06A

With engraving

- Red
- Green

NC	21	22
NO	13	14

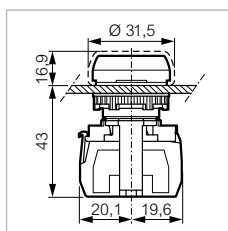
L21AA81B
L21AA82B

FLUSH

Reinforced degree of protection: IP 67



L22AF01A



Supplied with opaque shroud

- Red
- Green
- Black

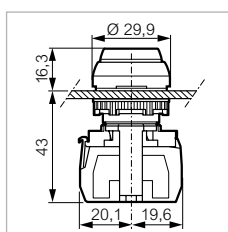
NC	21	22
NO	13	14
NO	13	14

L22AF01A
L22AF02A
L22AF03A

PROJECTING



L21AB01A



- Red

NC	21	22
----	----	----

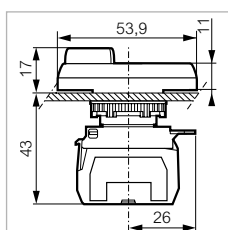
L21AB01A

FLUSH-PROJECTING

Double touch - degree of protection: IP 66



L61QB21A



- Green - Flush
- Red - Projecting

NO	13	14	21	22	1	3	2
NC					NC	NO	

L61QB21A

Complete units: Selector switches ø 22

IP 66 - IP 69K
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► SELECTOR SWITCHES - NON ILLUMINATED

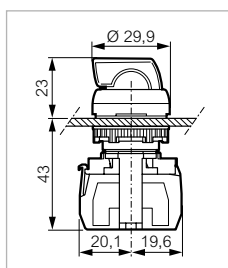
WITH HANDLE

2 positions

Cat. No.

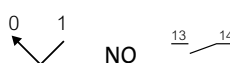


L21KE03B



Stay-put positions - 90°

● Black



L21KE03B

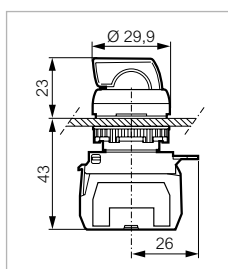
WITH HANDLE

3 positions

Cat. No.

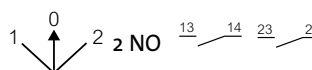


L21MA03A



Stay-put positions - 45°

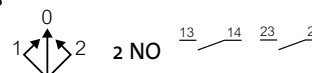
● Black



L21MA03A

Spring return to 0 - 45°

● Black



L21MD03A

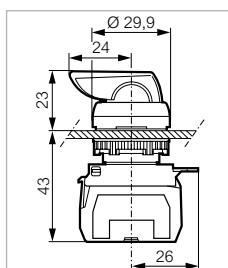
WITH LONG HANDLE

3 positions

Cat. No.

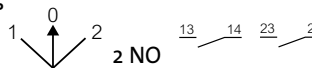


L21MR03A



Stay-put positions - 45°

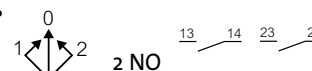
● Black



L21MR03A

Spring return to 0 - 45°

● Black



L21MU03B

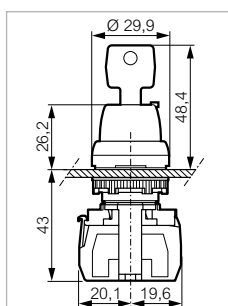
WITH KEY

2 positions

Cat. No.



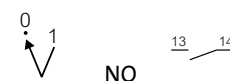
L21LA00G



Supplied with 2 keys profile n°455

Stay-put positions - 45°

Key free
in position 0



L21LA00G

Complete units: Mushroom heads ø 22

IP 66 - IP 69K
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Conform to IEC 60947-5-1



Characteristics (p. 98)

► MUSHROOM HEADS - NON ILLUMINATED

ø 40 - SPRING RETURN

Push

Cat. No.



L21AD01C

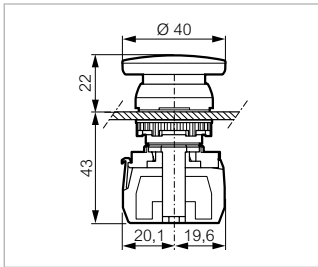
Plastic chrome bezel
Black bezel on request (form p. 83)

● Red

NC



L21AD01C



ø 40 - STAY-PUT

Push-turn to reset

Cat. No.



L22ED01D

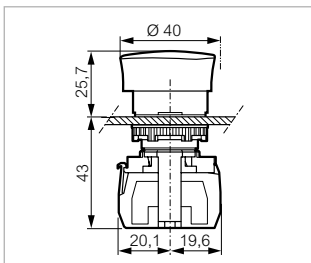
Black bezel

● Red

NC



L22ED01D



Complete units: Mushroom heads ø 22

IP 66 - IP 69K
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic black bezel
Conform to IEC 60947-5-1



Characteristics (p. 98)

► MUSHROOM HEADS - NON ILLUMINATED (CONTINUED)

ø 40 - STAY-PUT

Push-pull to reset

Cat. No.

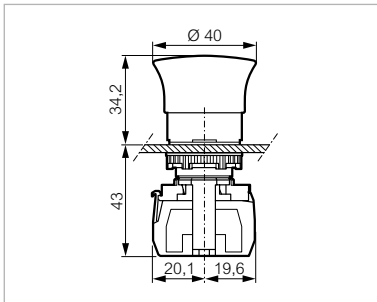


L22DD01A

● Red

NC 

L22DD01A



ø 40 - STAY-PUT

Key to reset

Cat. No.



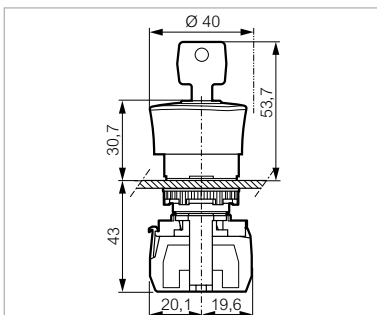
L22GM01E

Supplied with 2 keys profile n°455

● Red

NC 

L22GM01E



Complete units: Mushroom heads ø 22

IP 66 - IP 69K
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic black bezel
Conform to IEC 60947-5-1



Characteristics (p. 98)

► ISO 13850 EMERGENCY STOP - NON ILLUMINATED

Ø 40 ISO 13850 - STAY-PUT

Push-turn to reset

Cat. No.



L22ER01D

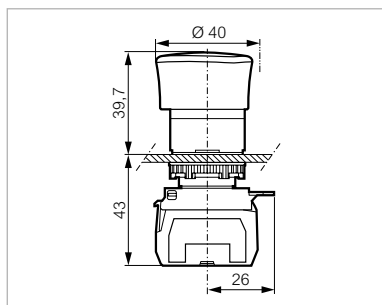
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850

● Red

NO + NC



L22ER01D



Ø 40 ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.

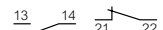


L22DR01B

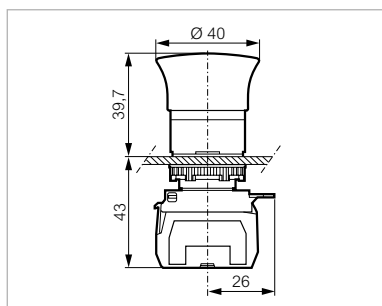
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850

● Red

NO + NC



L22DR01B



Complete units: Mushroom heads ø 22

IP 66 - IP 69K
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic black bezel
Conform to IEC 60947-5-1



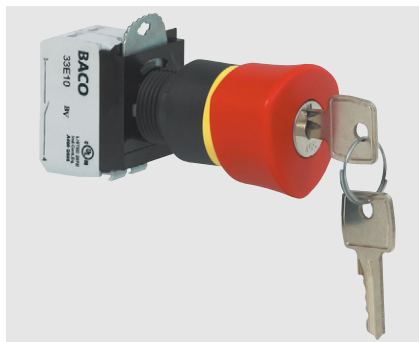
Characteristics (p. 98)

► ISO 13850 EMERGENCY STOP - NON ILLUMINATED

ø 40 ISO 13850 - STAY-PUT

Key to reset

Cat. No.

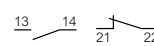


L22GR01B

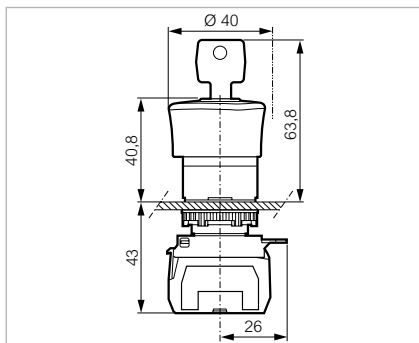
Double position indicator: head and collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850
Supplied with 2 keys profile n°455

● Red

NO + NC



L22GR01B



ø 54 ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator

Cat. No.



L22DU01G

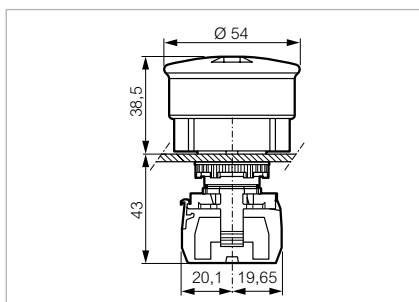
Double position indicator: head and collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850
Flag indicator: Engraving STOP and I

● Red

NC



L22DU01G



Complete units: Pushbuttons ø 22

IP 66 - IP 69K
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

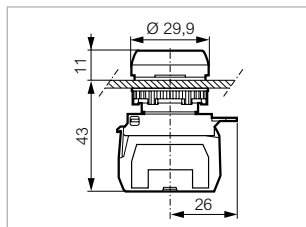
► SPRING RETURN - ILLUMINATED

FLUSH

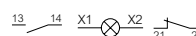
Cat. No.



L21AH20L



LED blocks



24V

- Red
- Green
- Yellow
- White
- Blue

NO+NC
NO+NC
NO+NC
NO+NC
NO+NC

L21AH10L
L21AH20L
L21AH40L
L21AH50L
L21AH60L

130 V

- Red
- Green

NO+NC
NO+NC

L21AH10M
L21AH20M

230 V

- Red
- Green

NO+NC
NO+NC

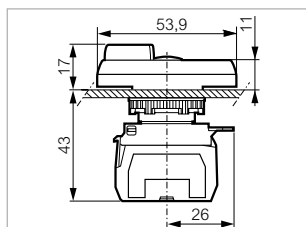
L21AH10H
L21AH20H

TWIN TOUCH - FLUSH-PROJECTING

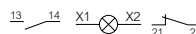
Degree of protection: IP 66



L61QK21H



LED blocks
Central part illuminated



24 V

- Green
- Red

NO
NC

L61QK21L

130 V

- Green
- Red

NO
NC

L61QK21M

230 V

- Green
- Red

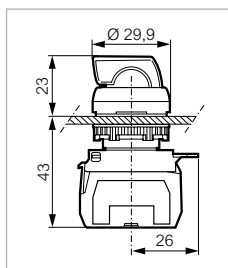
NO
NC

L61QK21H

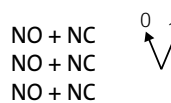
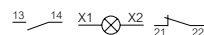
Conform to IEC 60947-5-1



Cat. No.



- Red
- Green
- Black



L21KG10C
L21KG20E
L21KG30B

Complete units: Pilot lights ø 22

IP 66 - IP 69K
Complete units consisting of:
- head
- clip and screw electrical blocks assembled
Conform to IEC 60947-5-1



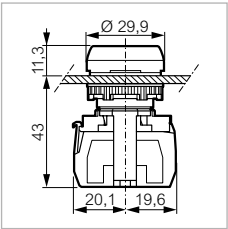
Characteristics (p. 98)

PILOT LIGHTS

Cat. No.



L20SE20L



LED blocks



24 V

- Red
- Green
- Yellow
- White
- Blue

L20SE10L
L20SE20L
L20SE40L
L20SE50L
L20SE60L

130 V

- Red
- Green
- Yellow
- White
- Blue

L20SE10M
L20SE20M
L20SE40M
L20SE50M
L20SE60M

230V

- Red
- Green
- Yellow
- White
- Blue

L20SE10H
L20SE20H
L20SE40H
L20SE50H
L20SE60H

One-piece pilot lights (p. 49-50)

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
Equipped with a locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

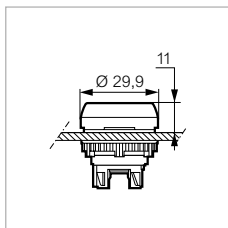
► PUSH-BUTTONS - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21AA02



Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

L21AA01
L21AA02
L21AA03
L21AA04
L21AA05
L21AA06

With engraving

- ⊙ Red
- ⊓ Green
- ⊓ Black

L21AA81
L21AA82
L21AA83

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Black
- Yellow
- White
- Blue

L21AA31 [] [] [] []
L21AA32 [] [] [] []
L21AA33 [] [] [] []
L21AA34 [] [] [] []
L21AA35 [] [] [] []
L21AA36 [] [] [] []

(Other colours and engraving: fill in the form p. 83)

Without button plate

L21AA00

Button plates (see p. 78)



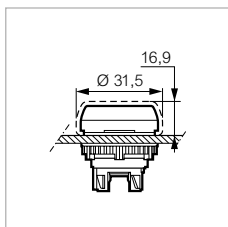
L21AA00

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



L22AF01



Supplied with shroud

Opaque

- Red
- Green
- Black

L22AF01
L22AF02
L22AF03

Transparent

- Yellow
- White
- Blue

L22AG04
L22AG05
L22AG06

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
Equipped with a locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

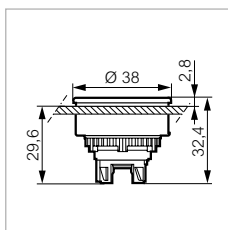
SPRING RETURN - SUPER FLUSH

Degree of protection: IP 66

Cat. No.



L23AA02



Metallic chrome bezel
Cut-out ø 30,5 mm

Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

L23AA01
L23AA02
L23AA03
L23AA04
L23AA05
L23AA06

With engraving

- ⦿ Red
- ⦿ Green

L23AA81
L23AA82

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Black
- Yellow
- White
- Blue

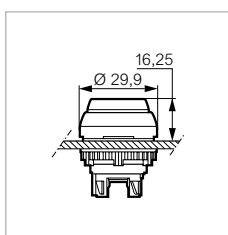
L23AA31
L23AA32
L23AA33
L23AA34
L23AA35
L23AA36

(Other colours and engraving: fill in the form p. 83)

SPRING RETURN - PROJECTING



L21AB01



- Red
- Green
- Black
- Yellow
- White
- Blue

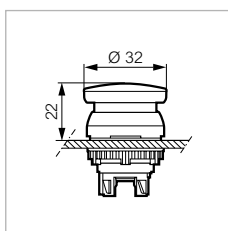
L21AB01
L21AB02
L21AB03
L21AB04
L21AB05
L21AB06

SPRING RETURN - MUSHROOM HEAD Ø 32

Push



L21AC03



- Red
- Green
- Black
- Yellow

L21AC01
L21AC02
L21AC03
L21AC04

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
Equipped with a locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

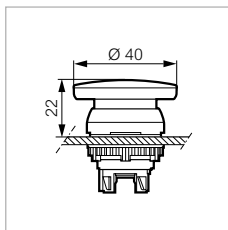
SPRING RETURN - MUSHROOM HEAD Ø 40

Push

Cat. No.



L21AD01



- Red
- Green
- Black
- Yellow
- Blue

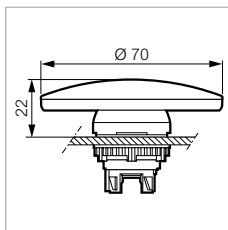
L21AD01
L21AD02
L21AD03
L21AD04
L21AD06

SPRING RETURN - MUSHROOM HEAD Ø 70

Push



L21AE03



- Red
- Black

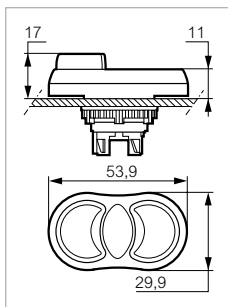
L21AE01
L21AE03

SPRING RETURN - FLUSH-PROJECTING

Double touch - degree of protection: IP 66



L61QB21



- Green
- Red
- Green engraving START
- Red engraving STOP

L61QB21

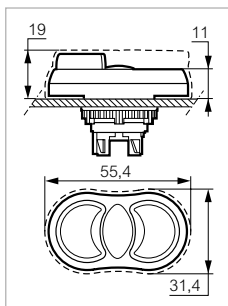
L61QB21B

SPRING RETURN - FLUSH-PROJECTING

Double touch - reinforced degree of protection: IP 67



L62QM21



Supplied with transparent shroud

- Green
- Red

L62QM21

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
Equipped with a locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

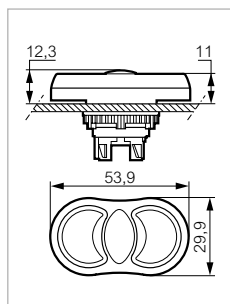
SPRING RETURN - FLUSH-FLUSH

Double touch - degree of protection: IP 66

Cat. No.



L61QA21



-  Green
-  Red
-  Green engraving 
-  Green engraving 
-  Green
-  Green
-  Black
-  Black

L61QA21

L61QA22

L61QA22K

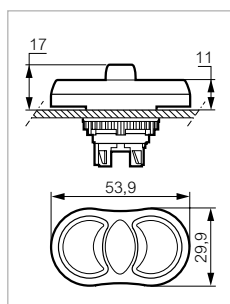
L61QA33C

SPRING RETURN - FLUSH-PROJECTING-FLUSH

Triple touch - degree of protection: IP 66



L61BA22



-  Green
-  Red engraving STOP
-  Green
-  Green
-  Red engraving STOP
-  Green

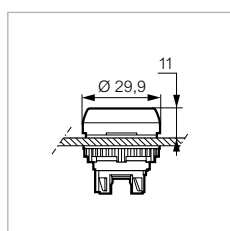
L61BA22

L61BA22B

STAY-PUT - FLUSH



L21CA01



-  Red
-  Green
-  Black
-  Yellow
-  White
-  Blue

L21CA01

L21CA02

L21CA03

L21CA04

L21CA05

L21CA06

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
Equipped with a locking ring
Plastic black bezel
Conform to IEC 60947-5-1



Characteristics (p. 98)

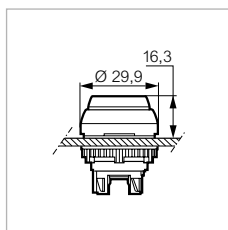
► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

STAY-PUT - PROJECTING

Cat. No.



L21CB02



Plastic chrome bezel
Black bezel on request (form p. 83)

- Red
- Green
- Black
- Yellow
- White
- Blue

L21CB01
L21CB02
L21CB03
L21CB04
L21CB05
L21CB06

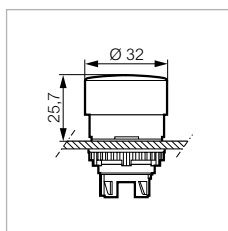
► MUSHROOM HEADS - NON ILLUMINATED

ø 32 - STAY-PUT

Push-turn to reset



L22EC01



- Red
- Green
- Black
- Yellow

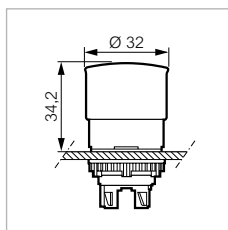
L22EC01
L22EC02
L22EC03
L22EC04

ø 32 - STAY-PUT

Push-pull to reset



L22DC01



- Red

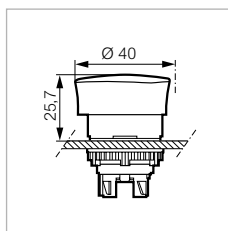
L22DC01

ø 40 - STAY-PUT

Push-turn to reset



L22ED01



Without engraving

- Red
- Green
- Black
- Yellow

L22ED01
L22ED02
L22ED03
L22ED04

With engraving

- Red - engraving STOP - STOP - STOP

L22ED01B

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
Equipped with a locking ring
Plastic black bezel
Conform to IEC 60947-5-1



Characteristics (p. 98)

► MUSHROOM HEAD - NON ILLUMINATED (CONTINUED)

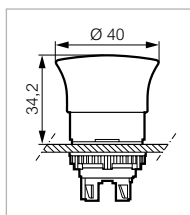
ø 40 - STAY-PUT

Push-pull to reset

Cat. No.



L22DD01



- Red
- Black

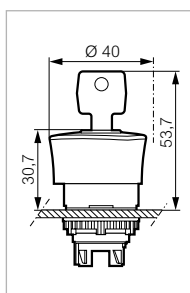
L22DD01
L22DD03

ø 40 - STAY-PUT

Key to reset



L22GM01



Supplied with 2 keys profile n° 455

- Red

L22GM01

► ISO 13850 EMERGENCY STOP - NON ILLUMINATED

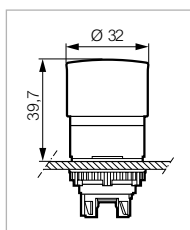
ø 32 ISO 13850 - STAY-PUT

Push-pull

Cat. No.



L22DQ01



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850

- Red

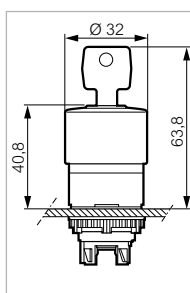
L22DQ01

ø 32 ISO 13850 - STAY-PUT

Key to reset



L22GQ01



Supplied with 2 keys profile n° 455
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850

- Red

L22GQ01

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
Equipped with a locking ring
Plastic black bezel
Conform to IEC 60947-5-1



Characteristics (p. 98)

► ISO 13850 EMERGENCY STOP - NON ILLUMINATED (CONTINUED)

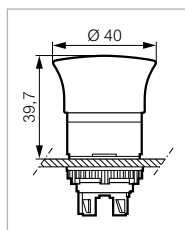
ø 40 ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



L22DR01



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850

● Red

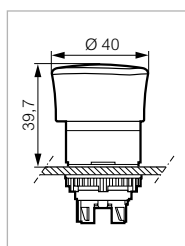
L22DR01

ø 40 ISO 13850 - STAY-PUT

Push-turn to reset



L22ER01



Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850

● Red

● Red with symbol IEC 60417-5638 / ISO 13850

L22ER01

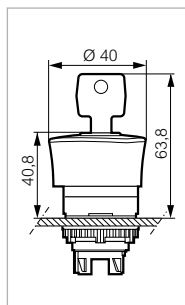
L22ER01K

ø 40 ISO 13850 - STAY-PUT

Key to reset



L22GR01



Supplied with 2 keys profile n° 455
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850

● Red

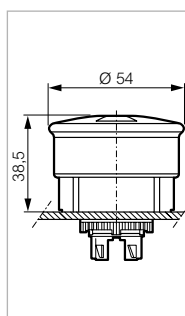
L22GR01

ø 54 ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator



L22DU01



Double position indicator: head and collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850

● Red - engraving O- I

● Red - engraving STOP - I

L22DU01A

L22DU01

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
Equipped with a locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► SELECTOR SWITCHES - NON ILLUMINATED

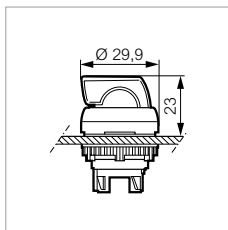
WITH HANDLE

2 positions

Cat. No.



L21KA03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21KA01
L21KA02
L21KA03
L21KA08

Spring return - 45°

- Red
- Green
- Black
- Grey



L21KB01
L21KB02
L21KB03
L21KB08

Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21KC01
L21KC02
L21KC03
L21KC08

Spring return - 45°

- Red
- Green
- Black
- Grey



L21KD01
L21KD02
L21KD03
L21KD08

Stay-put positions - 90°

- Red
- Green
- Black
- Grey



L21KE01
L21KE02
L21KE03
L21KE08

Stay-put positions - 90°

- Red
- Green
- Black
- Grey



L21KF01
L21KF02
L21KF03
L21KF08

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

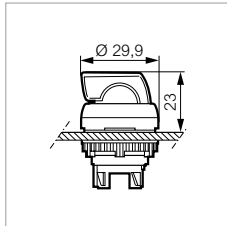
WITH HANDLE

3 positions

Cat. No.



L21MA03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21MA01
L21MA02
L21MA03
L21MA08

Spring return from left to 0 - 45°

- Red
- Green
- Black
- Grey



L21MB01
L21MB02
L21MB03
L21MB08

Spring return from right to 0 - 45°

- Red
- Green
- Black
- Grey



L21MC01
L21MC02
L21MC03
L21MC08

Spring return to 0 - 45°

- Red
- Green
- Black
- Grey



L21MD01
L21MD02
L21MD03
L21MD08

Stay-put positions - 90°

- Red
- Green
- Black
- Grey



L21MK01
L21MK02
L21MK03
L21MK08



L21MA08

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

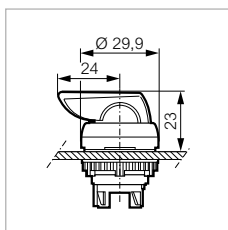
WITH LONG HANDLE

2 positions

Cat. No.



L21KP03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21KP01
L21KP02
L21KP03
L21KP08

Spring return - 45°

- Red
- Green
- Black



L21KQ01
L21KQ02
L21KQ03

Stay-put positions - 45°

- Red
- Green
- Black



L21KR01
L21KR02
L21KR03

Spring return - 45°

- Red
- Green
- Black



L21KS01
L21KS02
L21KS03

Stay-put positions - 90°

- Red
- Green
- Black



L21KT01
L21KT02
L21KT03

Stay-put positions - 90°

- Red
- Green
- Black



L21KU01
L21KU02
L21KU03

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

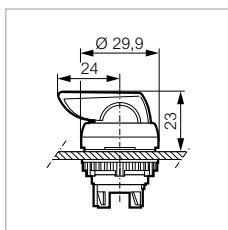
WITH LONG HANDLE

3 positions

Cat. No.



L21MR03



Stay-put positions - 45°

- Red
- Green
- Black
- Grey



L21MR01
L21MR02
L21MR03
L21MR08

Spring return from left to 0 - 45°

- Red
- Green
- Black
- Grey



L21MS01
L21MS02
L21MS03
L21MS08

Spring return from right to 0 - 45°

- Red
- Green
- Black
- Grey



L21MT01
L21MT02
L21MT03
L21MT08

Spring return to 0 - 45°

- Red
- Green
- Black
- Grey



L21MU01
L21MU02
L21MU03
L21MU08

Separate units ø 22: Heads

IP 66
To be combined with a clip and electrical blocks (p. 52)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

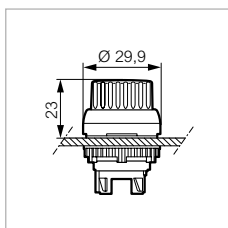
WITH KNOB

2 positions - degree of protection: IP 66

Cat. No.



L21TF03



Stay-put positions - 45°

- Black



L21TA03

Spring return - 45°

- Black



L21TB03

Stay-put positions - 90°

- Black



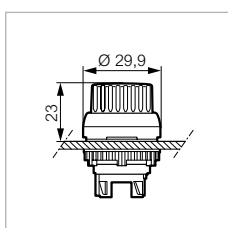
L21TF03

WITH KNOB

3 positions - degree of protection: IP 66



L21UA03



Stay-put positions - 45°

- Black



L21UA03

Spring return from left to 0 - 45°

- Black



L21UB03

Spring return from right to 0 - 45°

- Black



L21UC03

Spring return to 0 - 45°

- Black



L21UD03

Stay-put positions - 90°

- Black



L21UK03

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

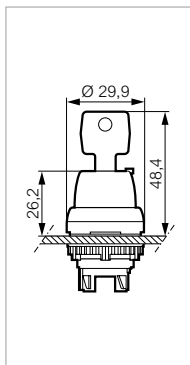
WITH KEY

2 positions

Cat. No.



L21LG00



Key free in position:

Supplied with 2 keys profile n° 455

Stay-put positions - 45°

● Black



0

L21LA00

Spring return - 45°

● Black



0

L21LB00

Stay-put positions - 45°

● Black



0

L21LC00

Spring return - 45°

● Black



0

L21LD00

Stay-put positions - 90°

● Black



0

L21LF00

Stay-put positions - 90°

● Black



0 - 1

L21LG00

Stay-put positions - 90°

● Black



0 - 1

L21LH00

Stay-put positions - 90°

● Black



1

L21LK00

Key profile n° 1424 A and others (form p. 83)

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip and electrical blocks (p. 52)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

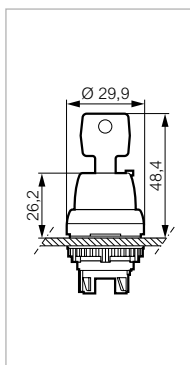
WITH KEY

3 positions

Cat. No.



L21NA00



Key free in position:

Supplied with 2 keys profile n° 455

Stay-put positions - 45°

● Black



0

L21NA00

Spring return from left to 0 - 45°

● Black



0

L21NB00

Spring return from right to 0 - 45°

● Black



0

L21NC00

Spring return to 0 - 45°

● Black



0

L21ND00

Stay-put positions - 45°

● Black



1 - 2

L21NE00

Spring return from right to 0 - 45°

● Black



1

L21NJ00

Stay-put positions - 90°

● Black



1 - 0 - 2

L21NK00

Stay-put positions - 90°

● Black



0

L21NL00

Key profile n° 1424 A and others (form p. 83)

Separate units ø 22: Heads

IP 65
With locking ring
Plastic chrome bezel
Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

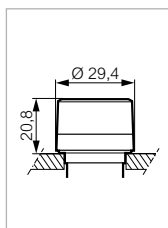
► ADJUSTABLE MECHANICAL PUSH/RESET BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21HA01



To be used without electrical block
Stroke 11 mm
Adjustable: 26 mm min to 46 mm max / front side of panel

Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

L21HA01
L21HA02
L21HA03
L21HA04
L21HA05
L21HA06

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

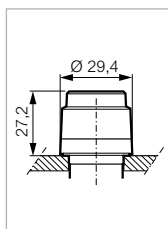
- Red
- Green
- Black
- Yellow
- White
- Blue

L21HA31
L21HA32
L21HA33
L21HA34
L21HA35
L21HA36

SPRING RETURN - PROJECTING



L21HB01



To be used without electrical block
Stroke 11 mm
Adjustable: 26 mm min to 46 mm max / front side of panel

- Red
- Green
- Black
- Yellow
- White
- Blue

L21HB01
L21HB02
L21HB03
L21HB04
L21HB05
L21HB06

Separate units ø 22: Heads

IP 66 - IP 69K



Characteristics (p. 98)

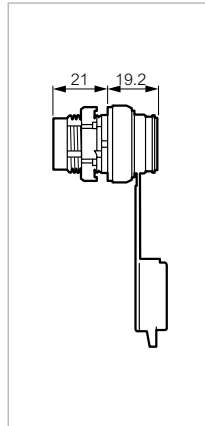
► USB INTERFACE 3.0 TYPE A/A CONNECTION

Degree of protection: IP 65

Cat. No.



L21VB03



USB interface 3.0 type A/A connection
USB class: 3.0 (backward compatible with USB class 2.0)

L21VB03

Recommended fixing tool: Tightening flat wrench size 26 mm

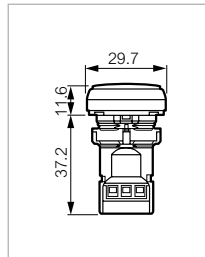
► AUDIBLE WARNING BUZZERS

Degree of protection: IP 66, IP 69K

Cat. No.



L22VA03L



24 V AC/DC Buzzer pulse or continuous sound
130 V AC/DC Buzzer pulse or continuous sound
230 V AC/DC Buzzer pulse or continuous sound

L22VA03L
L22VA03M
L22VA03H

Recommended fixing tool: Tightening flat wrench size 26 mm

Separate units ø 22: Heads

IP 65 - IP 66
With locking ring
Conform to IEC 60947-5-1



Characteristics (p. 98)

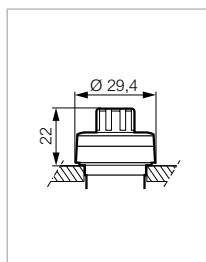
► BUTTON FOR POTENTIOMETER - NON ILLUMINATED

Degree of protection: IP 65

Cat. No.



L21RP03



Head + mounting base for potentiometer
Plastic chrome bezel

Shaft ø 6 or 6.35 mm
Potentiometer length 46 to 51 mm

L21RP03

► JOYSTICKS - NON ILLUMINATED

Degree of protection: IP 66

Cat. No.



LM2F

Heads supplied with a 3 position clip
Specific electrical blocks (p. 67)

Head does not lock in position 0

2 directions - 3 positions

2 maintained (stay-put) A - 0 - B
2 spring-return A → 0 ← B

LM2F
LM2A

4 directions - 5 positions

4 maintained (stay-put) A
C - 0 - D
B

LM4F

4 spring-return

A
C → 0 ← D
B

LM4A

Head locks in position 0

2 directions - 3 positions

2 maintained (stay-put) A - 0 - B
2 spring-return A → 0 ← B

LMV2F
LMV2A

4 directions - 5 positions

4 maintained (stay-put) A
C - 0 - D
B

LMV4F

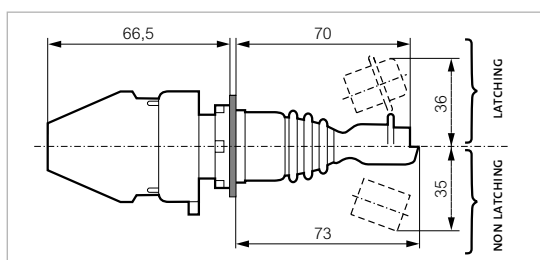
4 spring-return

A
C → 0 ← D
B

LMV4A



LMV4F



Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip, LED block and contact blocks (p. 52)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 86)
Conform to IEC 60947-5-1



Characteristics (p. 98)

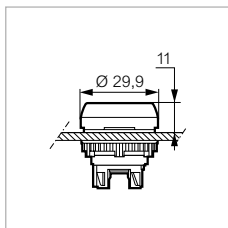
► PUSH-BUTTONS - ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



L21AH20



Without engraving

- Red
- Green
- Yellow
- White
- Blue

L21AH10
L21AH20
L21AH40
L21AH50
L21AH60

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

L21AH31 ☐☐☐☐
L21AH32 ☐☐☐☐
L21AH34 ☐☐☐☐
L21AH35 ☐☐☐☐
L21AH36 ☐☐☐☐

Without button plate

L21AH00

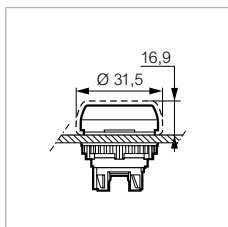
Button plates (p. 78)

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



L22AP40



Supplied with transparent shroud

- Red
- Green
- Yellow
- White
- Blue

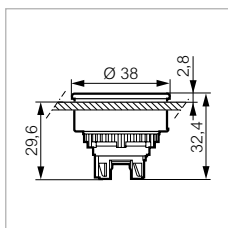
L22AP10
L22AP20
L22AP40
L22AP50
L22AP60

SPRING RETURN - SUPER FLUSH

Degree of protection: IP 66



L23AH10



Metallic chrome bezel
Drilling ø 30,5 mm

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L23AH10
L23AH20
L23AH40
L23AH50
L23AH60

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

L23AH31 ☐☐☐☐
L23AH32 ☐☐☐☐
L23AH34 ☐☐☐☐
L23AH35 ☐☐☐☐
L23AH36 ☐☐☐☐

Catalogue No. in bold: normally in stock at distribution outlets

Separate units ø 22: Heads

IP 66 - IP 69K
 To be combined with a clip, LED block and contact blocks (p. 52)
 With locking ring
 Plastic chrome bezel
 Black bezel on request (form p. 83)
 Conform to IEC 60947-5-1



Characteristics (p. 98)

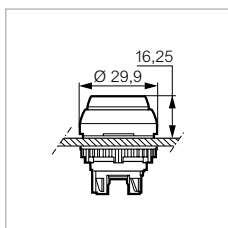
► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

SPRING RETURN - PROJECTING

Cat. No.



L21AK20



- Red
- Green
- Yellow
- White
- Blue

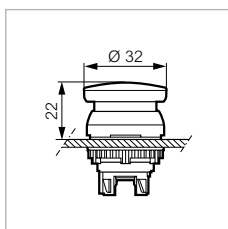
L21AK10
L21AK20
L21AK40
L21AK50
L21AK60

SPRING RETURN - MUSHROOM HEAD Ø 32

Push



L21AL10



- Red
- Green
- Yellow
- White

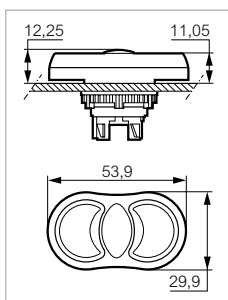
L21AL10
L21AL20
L21AL40
L21AL50

SPRING RETURN - FLUSH-FLUSH

Double touch - degree of protection: IP 66



L61QH21



Central part illuminated

- Green
- Red
- Green
- Green
- Green engraving START
- Red engraving STOP

L61QH21

L61QH22V

L61QH21A

Separate units ø 22: Heads

IP 66
To be combined with a clip, LED block and contact blocks (p. 52)
With locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

PUSH-BUTTONS - ILLUMINATED (CONTINUED)

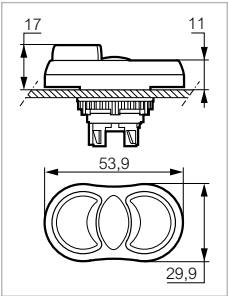
SPRING RETURN - FLUSH-PROJECTING

Double touch - degree of protection: IP 66

Cat. No.



L61QK21



Central part illuminated

- Green
- Red
- White
- Black
- Green engraving START
- Red engraving STOP

L61QK21

L61QK53

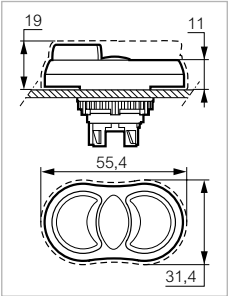
L61QK21A

SPRING RETURN - FLUSH-PROJECTING

Double touch - reinforced degree of protection: IP 67



L62QN21



Supplied with transparent shroud
Central part illuminated

- Green
- Red

L62QN21

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip, LED block and contact blocks (p. 52)
With locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

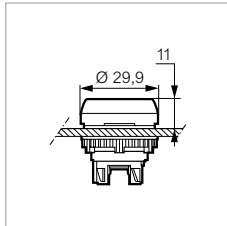
► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

STAY-PUT - FLUSH

Cat. No.



L21CH20



- Red
- Green
- Yellow
- White
- Blue

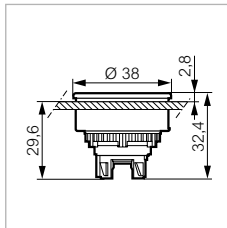
L21CH10
L21CH20
L21CH40
L21CH50
L21CH60

STAY-PUT - SUPER FLUSH

Degree of protection: IP 66



L23CH10



Metallic chrome bezel
Drilling ø 30,5 mm

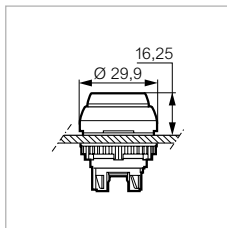
- Red
- Green
- Yellow
- White
- Blue

L23CH10
L23CH20
L23CH40
L23CH50
L23CH60

STAY-PUT - PROJECTING



L21CK20



- Red
- Green
- Yellow
- White
- Blue

L21CK10
L21CK20
L21CK40
L21CK50
L21CK60

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip, LED block and contact blocks (p. 52)
With locking ring
Black bezel
Conform to IEC 60947-5-1



Characteristics (p.98)

► MUSHROOM HEADS - ILLUMINATED

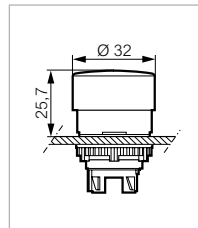
ø 32 - STAY-PUT

Push-turn to reset

Cat. No.



L22EL10



● Red

L22EL10

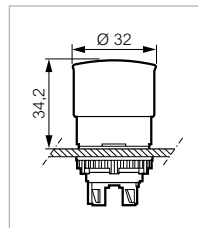
ø 32 - STAY-PUT

Push-pull to reset

L22DL10



L22DL10



● Red

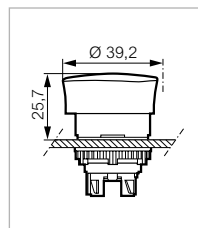
ø 40 - STAY-PUT

Push-turn to reset

L22EM10
L22EM20
L22EM40



L22EM10



● Red
● Green
● Yellow

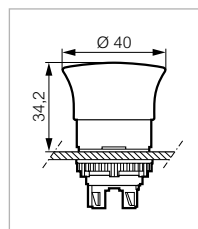
ø 40 - STAY-PUT

Push-pull to reset

L22DM10
L22DM20
L22DM40
L22DM50



L22DM10



● Red
● Green
● Yellow
○ White

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip, LED block and contact blocks (p. 52)
With locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► ISO 13850 EMERGENCY STOP - ILLUMINATED

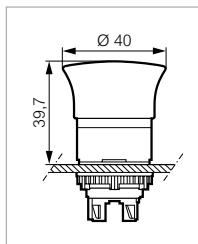
Ø 40 ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



L22DN10



Black bezel
Head position visible from the side with yellow collar
Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850

● Red

L22DN10

► SELECTOR SWITCHES - ILLUMINATED

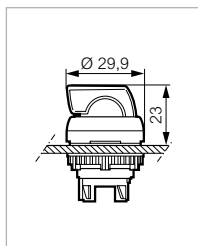
WITH HANDLE

2 positions

Cat. No.



L21KJ30



Stay-put positions - 45°

● Red
● Green
● Black



L21KG10
L21KG20
L21KG30

Spring return- 45°

● Red
● Green
● Black



L21KH10
L21KH20
L21KH30

Stay-put positions - 45°

● Red
● Green
● Black



L21KJ10
L21KJ20
L21KJ30

Spring return- 45°

● Red
● Green
● Black



L21KK10
L21KK20
L21KK30

Stay-put positions - 90°

● Red
● Green
● Black



L21KL10
L21KL20
L21KL30

Stay-put positions - 90°

● Red
● Green
● Black



L21KM10
L21KM20
L21KM30

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip, LED block and contact blocks (p. 52)
With locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► SELECTOR SWITCHES - ILLUMINATED

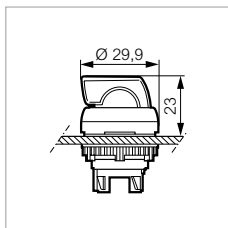
WITH HANDLE

3 positions

Cat. No.



L21ME10



Stay-put positions - 45°

- Red
- Green
- Black



L21ME10
L21ME20
L21ME30

Spring return from left to 0 - 45°

- Red
- Green
- Black



L21MF10
L21MF20
L21MF30

Spring return from right to 0 - 45°

- Red
- Green
- Black



L21MG10
L21MG20
L21MG30

Spring return to 0 - 45°

- Red
- Green
- Black



L21MH10
L21MH20
L21MH30

Stay-put positions - 90°

- Red
- Green
- Black



L21MJ10
L21MJ20
L21MJ30

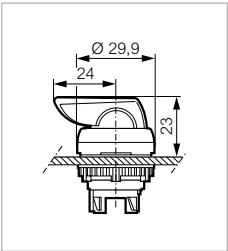
Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip, LED block and contact blocks (p. 52)
With locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► SELECTOR SWITCHES - ILLUMINATED (CONTINUED)

WITH LONG HANDLE		2 positions	Cat. No
 L21KV30		Stay-put positions - 45° ● Black 	L21KV30
		Stay-put positions - 45° ● Black 	L21KX30
		Spring return - 45° ● Black 	L21KY30

Separate units ø 22: Heads

IP 66 - IP 69K
To be combined with a clip, LED block and contact blocks (p. 52)
With locking ring
Plastic chrome bezel - Black bezel on request (form p. 83)
Conform to IEC 60947-5-1



Characteristics (p. 98)

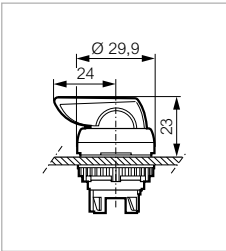
► SELECTOR SWITCHES - ILLUMINATED (CONTINUED)

WITH LONG HANDLE

3 positions



L21ML30



Stay-put positions - 45°

● Black



L21ML30

Spring return from left to 0 - 45°

● Black



L21MM30

Spring return from right to 0 - 45°

● Black



L21MN30

Spring return to 0 - 45°

● Black



L21MP30

Pilot lights ø 22

IP 66 - IP 69K
To be combined with a clip, LED block (p. 55)
With locking ring
Conform to IEC 60947-5-1



Characteristics (p. 98)

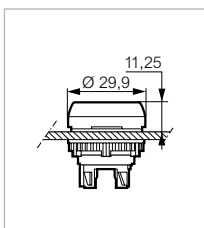
► PILOT LIGHTS - SEPARATE UNITS

FLUSH

Cat. No



L20SE20



To be combined with a clip and LED block (p. 55)

Without engraving

- Red
- Green
- Yellow
- White
- Blue

L20SE10
L20SE20
L20SE40
L20SE50
L20SE60

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

L20SE31 ☐☐☐☐
L20SE32 ☐☐☐☐
L20SE34 ☐☐☐☐
L20SE35 ☐☐☐☐
L20SE36 ☐☐☐☐

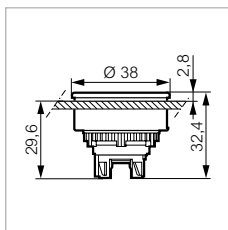
SUPER FLUSH

Degree of protection: IP 66

Cat. No



L23SE10



Metallic chrome bezel
Drilling Ø 30,5 mm
To be combined with a clip and LED block (p. 55)

Without engraving

Ribbed lens

- Red
- Green
- Yellow
- White
- Blue

L23SE10
L23SE20
L23SE40
L23SE50
L23SE60

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

L23SE31 ☐☐☐☐
L23SE32 ☐☐☐☐
L23SE34 ☐☐☐☐
L23SE35 ☐☐☐☐
L23SE36 ☐☐☐☐

Pilot lights ø 22

IP 66 - IP 69K
Direct supply



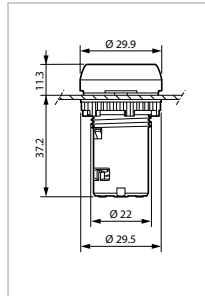
Characteristics (p. 98)

► ONE-PIECE PILOT LIGHTS

Cat. No.



L20SC20L



24V Without engraving

- Red
- Green
- Yellow
- White
- Blue

L20SC10L
L20SC20L
L20SC40L
L20SC50L
L20SC60L

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

L20SC31L ☐☐☐☐
L20SC32L ☐☐☐☐
L20SC34L ☐☐☐☐
L20SC35L ☐☐☐☐
L20SC36L ☐☐☐☐

130V Without engraving

- Red
- Green
- Yellow
- White
- Blue

L20SC10M
L20SC20M
L20SC40M
L20SC50M
L20SC60M

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

L20SC31M ☐☐☐☐
L20SC32M ☐☐☐☐
L20SC34M ☐☐☐☐
L20SC35M ☐☐☐☐
L20SC36M ☐☐☐☐

230V Without engraving

- Red
- Green
- Yellow
- White
- Blue

L20SC10H
L20SC20H
L20SC40H
L20SC50H
L20SC60H

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- Red
- Green
- Yellow
- White
- Blue

L20SC31H ☐☐☐☐
L20SC32H ☐☐☐☐
L20SC34H ☐☐☐☐
L20SC35H ☐☐☐☐
L20SC36H ☐☐☐☐

Block holder clips for assembly as you require

1, 3 or 5-position clips

► CLIP

"A flexible configuration for assembly in any order..."

► 3 BLOCKS



► 5 BLOCKS



► MODULAR

Stacking without accessories



- Snap fit, tools not required to attach contact blocks
- Cost effective solution: 1 position clip
- Blocks can be stacked on 2 levels, up to 3 blocks wide
- Blocks can be assembled in any order (except pilot light)
- Optimised dimensions: reduced depth of blocks

► BLOCK

"Imaginatively designed to be safe, robust and durable"

► MATERIAL

- IP20 as "finger safe"
- Electrical insulation
- Corrosion-resistant



► ENVIRONMENT

- Respect for the environment, RoHS compliant



- LED blocks: combine long life and economy
- Corrosion resistant to some chemicals and sea air, etc
- Conform to standard IEC 60947-5-1
- Conform to RoHS European directive concerning restriction of hazardous substances

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 23)
Mounting (p. 96)
Conform to IEC 60947-5-1



Characteristics (p. 98)

CONTACT BLOCKS - FOR NON ILLUMINATED HEADS

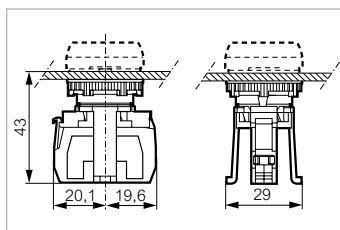
SCREW TERMINALS

1 position clip

Cat. No.



331E10



NO 
NC 

331E10

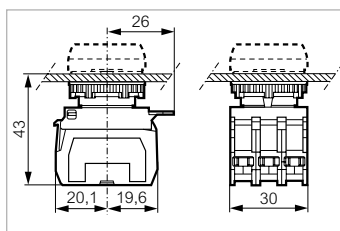
331E01

SCREW TERMINALS

3 position clip



333E21



NO 
NC 

333E10

333E01

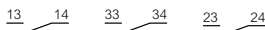
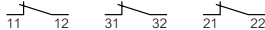
2 NO 
2 NC 

333E20

333E02

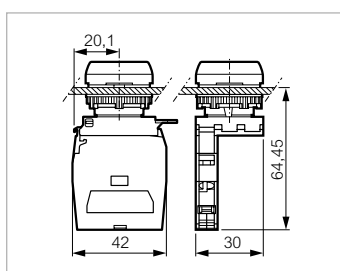
NO + NC 

333E11

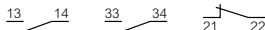
3 NO 
3 NC 

333E30

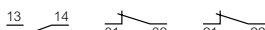
333E03



NO/NC

2 NO + NC 

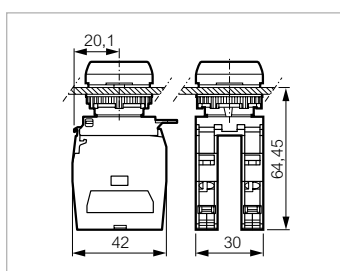
333E21

NO + 2 NC 

333E12

NO/NC  **334E11**

2 NO/NC  **334E22**



2 NO/NC

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 23)
Mounting (p. 96)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► CONTACT BLOCKS - FOR NON ILLUMINATED HEADS (CONTINUED)

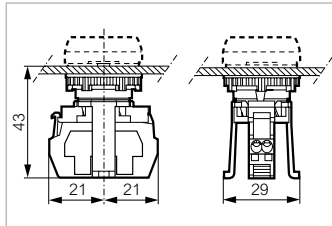
PLUG-IN TERMINALS

1 position clip

Cat. No.



331ER01



NO

13 14

331ER10

NC

21 22

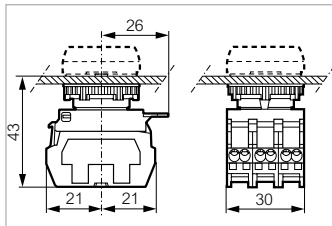
331ER01

PLUG-IN TERMINALS

3 position clip



333ER11



NO

13 14

333ER10

NC

21 22

333ER01

2 NO

13 14

23 24

333ER20

2 NC

11 12

21 22

333ER02

NO+NC

13 14

21 22

333ER11

3 NO

13 14

33 34

23 24

333ER30

3 NC

11 12

31 32

21 22

333ER03

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 23)
Mounting (p. 96)
Conform to IEC 60947-5-1



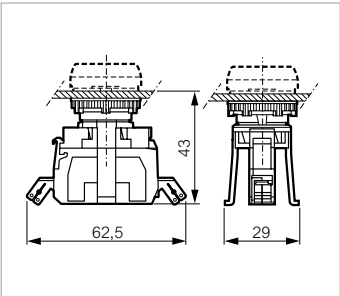
Characteristics (p. 98)

CONTACT BLOCKS - FOR NON ILLUMINATED HEADS (CONTINUED)

FASTON TERMINALS	1 position clip	Cat. No.
------------------	-----------------	----------



331ED10



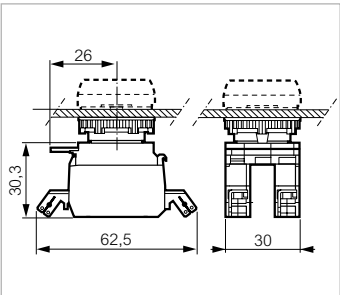
NO
NC

331ED10
331ED01

FASTON TERMINALS	3 position clip	
------------------	-----------------	--



333ED11



NO + NC

333ED11

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 23)
Mounting (p. 96)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS

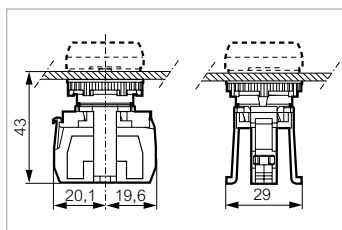
SCREW TERMINALS

1 position clip: LED block

Cat. No.



331EAGL



24 V

- White
- Red
- Green
- Blue
- Yellow

331EAWL
331EARL
331EAGL
331EABL
331EAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

331EAWM
331EARM
331EAGM
331EABM
331EAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

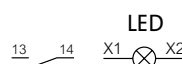
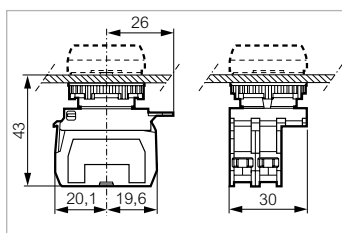
331EAWH
331EARH
331EAGH
331EABH
331EAYH

SCREW TERMINALS

3 position clip: NO + LED block



333EAWM10



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL10
333EARL10
333EAGL10
333EABL10
333EAYL10

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM10
333EARM10
333EAGM10
333EABM10
333EAYM10

230 V

- White
- Red
- Green
- Blue
- Yellow

333EAWH10
333EARH10
333EAGH10
333EABH10
333EAYH10

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 23)
Mounting (p. 96)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

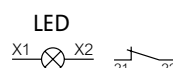
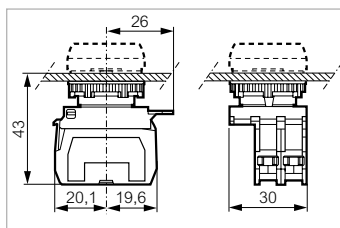
SCREW TERMINALS

3 position clip: LED block + NC

Cat. No.



333EAWL01



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL01
333EARL01
333EAGL01
333EABL01
333EAYL01

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM01
333EARM01
333EAGM01
333EABM01
333EAYM01

230 V

- White
- Red
- Green
- Blue
- Yellow

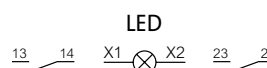
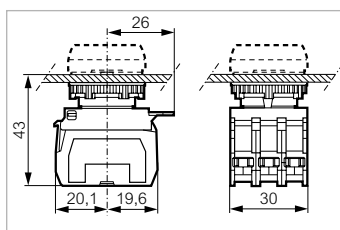
333EAWH01
333EARH01
333EAGH01
333EABH01
333EAYH01

SCREW TERMINALS

3 position clip: NO + LED block + NO



333EARL20



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL20
333EARL20
333EAGL20
333EABL20
333EAYL20

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM20
333EARM20
333EAGM20
333EABM20
333EAYM20

230 V

- White
- Red
- Green
- Blue
- Yellow

333EAWH20
333EARH20
333EAGH20
333EABH20
333EAYH20

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 23)
Mounting (p. 96)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

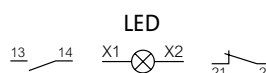
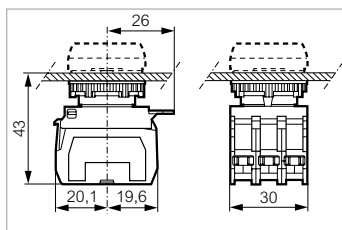
SCREW TERMINALS

3 position clip: NO + LED block + NC

Cat. No.



333EARL11



24 V

- White
- Red
- Green
- Blue
- Yellow

333EAWL11
333EARL11
333EAGL11
333EABL11
333EAYL11

130 V

- White
- Red
- Green
- Blue
- Yellow

333EAWM11
333EARM11
333EAGM11
333EABM11
333EAYM11

230 V

- White
- Red
- Green
- Blue
- Yellow

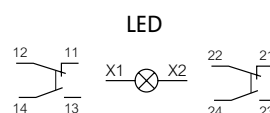
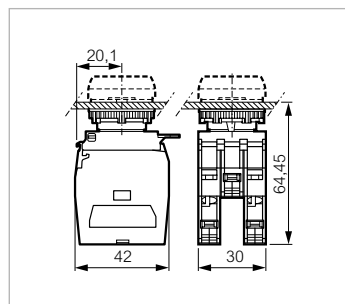
333EAWH11
333EARH11
333EAGH11
333EABH11
333EAYH11

SCREW TERMINALS

3 position clip: NO/NC + LED block + NO/NC



334EARL22



24 V

- White
- Red
- Green
- Blue
- Yellow

334EAWL22
334EARL22
334EAGL22
334EABL22
334EAYL22

130 V

- White
- Red
- Green
- Blue
- Yellow

334EAWM22
334EARM22
334EAGM22
334EABM22
334EAYM22

230 V

- White
- Red
- Green
- Blue
- Yellow

334EAWH22
334EARH22
334EAGH22
334EABH22
334EAYH22

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 23)
Mounting (p. 96)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

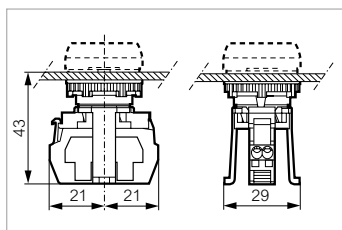
PLUG-IN TERMINALS

1 position clip: LED block

Cat. No.



331ERAGH



24 V

- White
- Red
- Green
- Blue
- Yellow

331ERAWL
331ERARL
331ERAGL
331ERABL
331ERAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

331ERAWM
331ERARM
331ERAGM
331ERABM
331ERAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

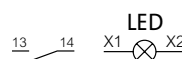
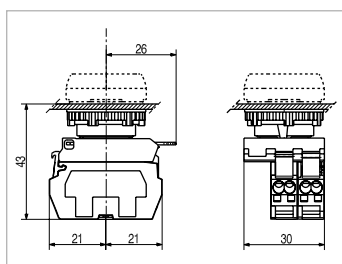
331ERAWH
331ERARH
331ERAGH
331ERABH
331ERAYH

PLUG-IN TERMINALS

3 position clip: NO + LED block



333ERAGL10



24 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWL10
333ERARL10
333ERAGL10
333ERABL10
333ERAYL10

130 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWM10
333ERARM10
333ERAGM10
333ERABM10
333ERAYM10

230 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWH10
333ERARH10
333ERAGH10
333ERABH10
333ERAYH10

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 23)
Mounting (p. 96)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

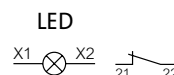
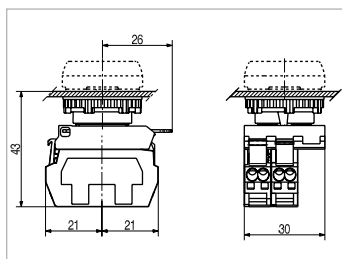
PLUG-IN TERMINALS

3 position clip: LED block + NC

Cat. No.



333ERAGH01



24 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWL01
333ERARL01
333ERAGL01
333ERABL01
333ERAYL01

130 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWM01
333ERARM01
333ERAGM01
333ERABM01
333ERAYM01

230 V

- White
- Red
- Green
- Blue
- Yellow

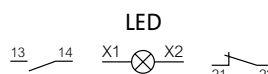
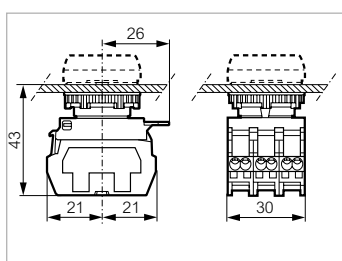
333ERAWH01
333ERARH01
333ERAGH01
333ERABH01
333ERAYH01

PLUG-IN TERMINALS

3 position clip: NO + LED block + NC



333ERAGH11



24 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWL11
333ERARL11
333ERAGL11
333ERABL11
333ERAYL11

130 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWM11
333ERARM11
333ERAGM11
333ERABM11
333ERAYM11

230 V

- White
- Red
- Green
- Blue
- Yellow

333ERAWH11
333ERARH11
333ERAGH11
333ERABH11
333ERAYH11

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 23)
Mounting (p. 96)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

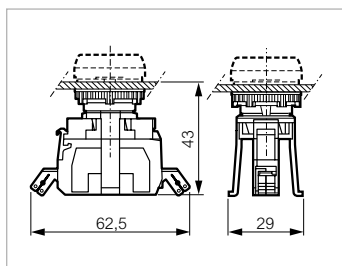
FASTON TERMINALS

1 position clip: LED block

Cat. No.



331EDARL



24 V

- White
- Red
- Green
- Blue
- Yellow

331EDAWL
331EDARL
331EDAGL
331EDABL
331EDAYL

130 V

- White
- Red
- Green
- Blue
- Yellow

331EDAWM
331EDARM
331EDAGM
331EDABM
331EDAYM

230 V

- White
- Red
- Green
- Blue
- Yellow

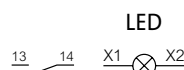
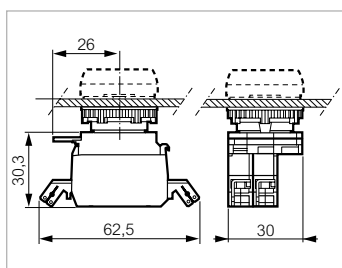
331EDAWH
331EDARH
331EDAGH
331EDABH
331EDAYH

FASTON TERMINALS

3 position clip: NO + LED block



333EDARL10



24 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWL10
333EDARL10
333EDAGL10
333EDABL10
333EDAYL10

130 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWM10
333EDARM10
333EDAGM10
333EDABM10
333EDAYM10

230 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWH10
333EDARH10
333EDAGH10
333EDABH10
333EDAYH10

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks sub-assemblies

IP 20
Clip and electrical blocks assembled
To be combined with a head (p. 23)
Mounting (p. 96)
Conform to IEC 60947-5-1



Characteristics (p. 98)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

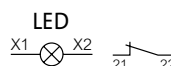
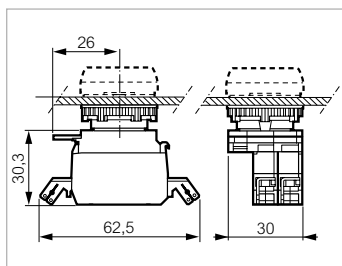
FASTON TERMINALS

3 position clip: LED block + NC

Cat. No.



333EDARM01



24 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWL01
333EDARL01
333EDAGL01
333EDABL01
333EDAYL01

130 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWM01
333EDARM01
333EDAGM01
333EDABM01
333EDAYM01

230 V

- White
- Red
- Green
- Blue
- Yellow

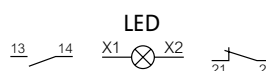
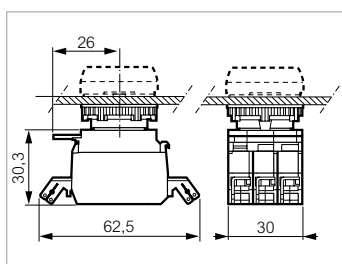
333EDAWH01
333EDARH01
333EDAGH01
333EDABH01
333EDAYH01

FASTON TERMINALS

3 position clip: NO + LED block + NC



333EDARL11



24 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWL11
333EDARL11
333EDAGL11
333EDABL11
333EDAYL11

130 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWM11
333EDARM11
333EDAGM11
333EDABM11
333EDAYM11

230 V

- White
- Red
- Green
- Blue
- Yellow

333EDAWH11
333EDARH11
333EDAGH11
333EDABH11
333EDAYH11

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 69)



Characteristics (p. 98)

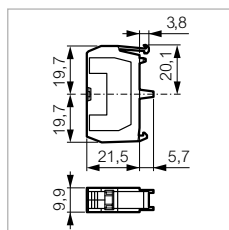
CONTACT BLOCKS

SCREW TERMINALS

Cat. No.



33E10



NO



33E10

NC



33E01

NO/NC



33E11

**Golden contacts
for low current**

NO



33E10Y7

NC



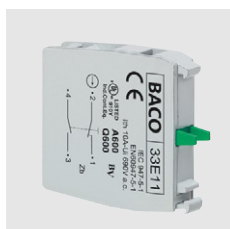
33E01Y7

Contact with delayed opening

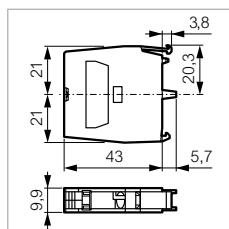
NC



33E01C



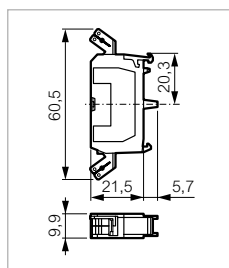
33E11



FASTON TERMINALS



33D01



NO



33D10

NC

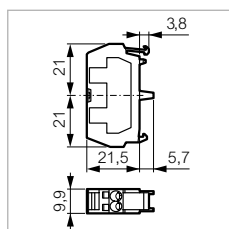


33D01

PLUG-IN TERMINALS



33R01



NO



33R10

NC



33R01

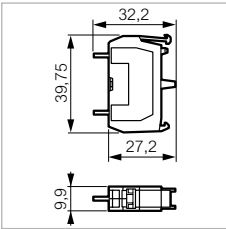
Separate units: Blocks

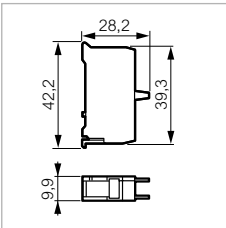
IP 20
To be combined with a 1, 3 or 5 position clip (p. 69)



Characteristics (p. 98)

CONTACT BLOCKS (CONTINUED)

FOR PCB (PIN-STYLE TERMINALS)				Cat. No.
 33P10		NO		33P10
		NC		33P01
		Golden contacts for low current		
		NO		33P10Y7
		NC		33P01Y7

FOR CONTROL STATIONS (SCREW TERMINALS)				
 33S01		For un-equipped control stations (p. 90) Base mounted		
		NO		33S10
		NC		33S01

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 69)



Characteristics (p. 98)

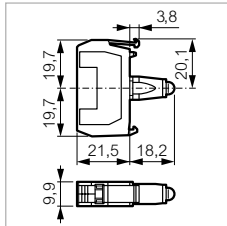
► LED BLOCKS

SCREW TERMINALS

Cat. No.



33EARL



24 V AC + DC

- White
- Red
- Green
- Blue
- Yellow

33EAWL
33EARL
33EAGL
33EABL
33EAYL

48 V AC + DC

- White
- Red
- Green
- Blue
- Yellow

33EAWL4
33EARL4
33EAGL4
33EABL4
33EAYL4

130 V AC

- White
- Red
- Green
- Blue
- Yellow

33EAWM
33EARM
33EAGM
33EABM
33EAYM

230 V AC

- White
- Red
- Green
- Blue
- Yellow

33EAWH
33EARH
33EAGH
33EABH
33EAYH

110 V DC

- White

33EAWDM

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 69)



Characteristics (p. 98)

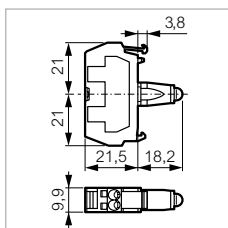
LED BLOCKS (CONTINUED)

PLUG-IN TERMINALS

Cat. No.



33RAGH



24 V AC + DC

- White
- Red
- Green
- Blue
- Yellow

33RAWL
33RARL
33RAGL
33RABL
33RAYL

130 V AC

- White
- Red
- Green
- Blue
- Yellow

33RAWM
33RARM
33RAGM
33RABM
33RAYM

230 V AC

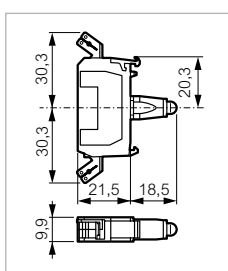
- White
- Red
- Green
- Blue
- Yellow

33RAWH
33RARH
33RAGH
33RABH
33RAYH

FASTON TERMINALS



33DARL



24 V AC + DC

- White
- Red
- Green
- Blue
- Yellow

33DAWL
33DARL
33DAGL
33DABL
33DAYL

130 V AC

- White
- Red
- Green
- Blue
- Yellow

33DAWM
33DARM
33DAGM
33DABM
33DAYM

230 V AC

- White
- Red
- Green
- Blue
- Yellow

33DAWH
33DARH
33DAGH
33DABH
33DAYH

Catalogue No. in bold: normally in stock at distribution outlets

Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 69)



Characteristics (p. 98)

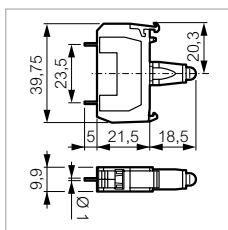
► LED BLOCKS (CONTINUED)

FOR PCB (PIN STYLE)

Cat. No.



33PAWL



24 V AC + DC

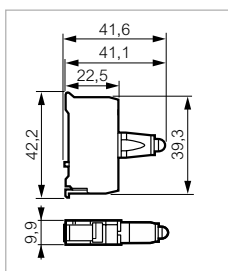
- White
- Red
- Green
- Blue
- Yellow

33PAWL
33PARL
33PAGL
33PABL
33PAYL

FOR CONTROL STATIONS (SCREW TERMINALS)



33SAGH



For un-equipped control stations (p. 90)
Base mounted



24 V AC + DC

- White
- Red
- Green
- Blue
- Yellow

33SAWL
33SARL
33SAGL
33SABL
33SAYL

130 V AC

- White
- Red
- Green
- Blue
- Yellow

33SAWM
33SARM
33SAGM
33SABM
33SAYM

230 V AC

- White
- Red
- Green
- Blue
- Yellow

33SAWH
33SARH
33SAGH
33SABH
33SAYH

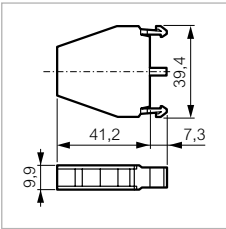
Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 69)

 Characteristics (p. 98)

SPECIFIC BLOCKS

FOR JOYSTICKS (SCREW TERMINALS) Cat. No.



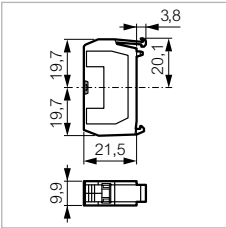
Joysticks (p. 39)

NO - NC



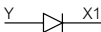
LM11

LAMP-TEST BLOCKS (SCREW TERMINALS)



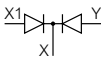
For 24 and 48 V

1 diod



33ET

2 diods



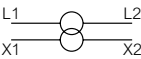
33ETT

For 130 and 230 V (form p. 83)

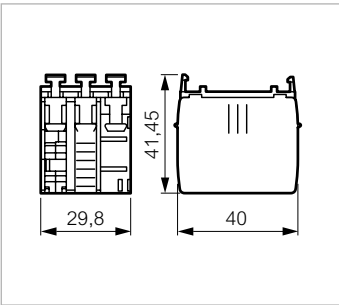
TRANSFORMER BLOCKS (SCREW TERMINALS)



230/24 V
400/24V



33EHC
33ELC



Separate units: Blocks

IP 20
To be combined with a 1, 3 or 5 position clip (p. 69)



Characteristics (p. 98)

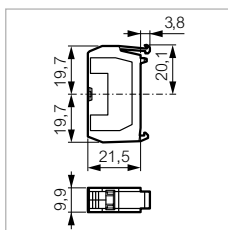
► SPECIFIC BLOCKS

FILTER BLOCKS (SCREW TERMINALS)

Cat. No.

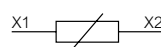


33EFH



Prevents from voltage peaks for LED block
To be wired in parallel of with the LED block

130 V
230 V

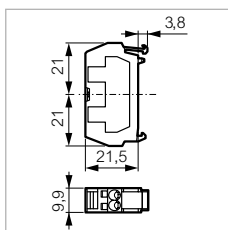


33EFM
33EFH

FILTER BLOCKS (PLUG-IN TERMINALS)

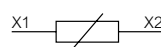


33RFH



Prevents from voltage peaks for LED block
To be wired in parallel of the LED block

130 V
230 V

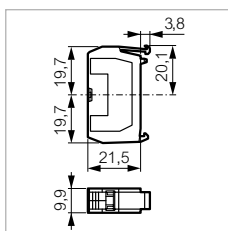


33RFM
33RFH

JUNCTION BLOCK (SCREW TERMINALS)



33EY



2 interconnected
terminals

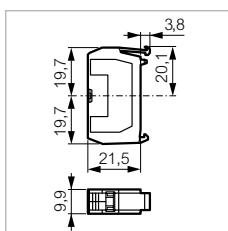


33EY

EMPTY BLOCK



33EX



For empty positions on 3 or 5 position clip

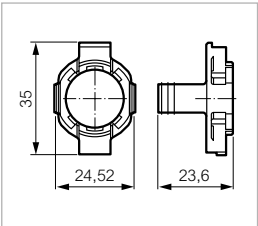
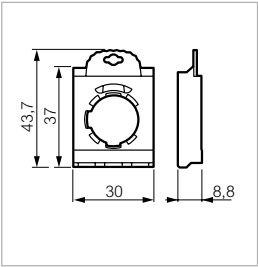
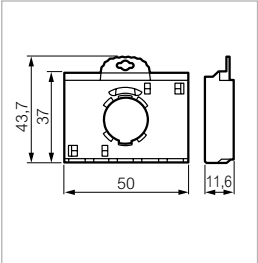
33EX

Accessories



Characteristics (p. 98)

CLIPS

CLIPS		Cat. No.	
		To be combined with blocks (p. 62 to 68) 1 position	331E
		3 positions	333E
		5 positions (only for $\varnothing 22$ heads)	335E

ROUND LEGEND PLATE

FOR MUSHROOM HEAD		Cat. No.	
	According to ISO 13850, Text + Symbol 		
	$\varnothing 60$		
	ARRET D'URGENCE + 	LWE16100	
	NOT-HALT + 	LWE16232	
	EMERGENCY STOP + 	LWE16300	
	$\varnothing 80$		
	ARRET D'URGENCE + 	LWE00100	
	NOT-HALT + 	LWE00232	
	EMERGENCY STOP + 	LWE00300	
	$\varnothing 60$ Without symbol, text only		
	ARRET D'URGENCE	LWE16152	
	NOT AUS	LWE16200	
	EMERGENCY STOP	LWE16352	
	$\varnothing 80$ Without symbol, text only		
	ARRET D'URGENCE	LWE00152	
	NOT AUS	LWE00200	
	EMERGENCY STOP	LWE00352	

Catalogue No. in bold: normally in stock at distribution outlets

Accessories ø 22



Characteristics (p. 98)

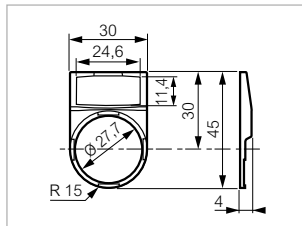
► COMPLETE FRAMES

Standard model - 30 x 45 mm

Cat. No.



LWP31



Round shape
Black frame and legend plate unassembled
2 lines maximum, 13 characters per line

Without engraving

- White
- Red
- Alu
- Black

LWP35
LWP31
LWP39
LWP33

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- White
- Red
- Alu
- Black

LWP35
LWP31
LWP39
LWP33

Protective mask for legend plate (paper or other ...)

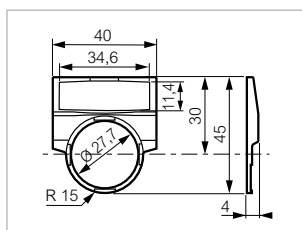
- Transparent

LWP37

Large model - 40 x 45 mm



LWG33



Round shape
Black frame and legend plate unassembled
2 lines maximum, 18 characters per line

Without engraving

- White
- Red
- Alu
- Black

LWG35
LWG31
LWG39
LWG33

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- White
- Red
- Alu
- Black

LWG35
LWG31
LWG39
LWG33

Protective mask for legend plate (paper or other ...)

- Transparent

LWG37

Accessories ø 22



Characteristics (p. 98)

► LEGEND PLATES

TO BE ENGRAVED

Standard model

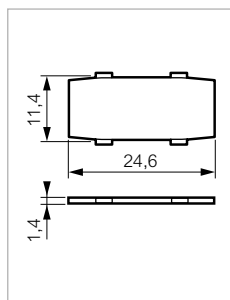
Cat. No.



LIA5



LIA1



2 lines maximum
13 characters per line
For round and square frames cat. nos. LWP3, LWP4 et LWP2 (p. 73)

Without engraving

- ☐ White
- ☒ Red
- ☒ Alu
- ☒ Black

LIA5
LIA1
LIA9
LIA3

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- ☐ White - black engraving
- ☒ Red - white engraving
- ☒ Alu - black engraving
- ☒ Black - white engraving

LIA5
LIA1
LIA9
LIA3

Protective mask for legend plate (paper or other ...)

- ☐ Transparent

LIA7

TO BE ENGRAVED

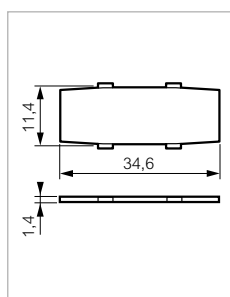
Large model



LIB9



LIB3



2 lines maximum
18 characters per line
For round frame cat. no. LWG3 (p. 73)

Without engraving

- ☐ White
- ☒ Red
- ☒ Alu
- ☒ Black

LIB5
LIB1
LIB9
LIB3

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

- ☐ White - black engraving
- ☒ Red - white engraving
- ☒ Alu - black engraving
- ☒ Black - white engraving

LIB5
LIB1
LIB9
LIB3

Protective mask for legend plate (paper or other ...)

- ☐ Transparent

LIB7

Accessories ø 22



Characteristics (p. 98)

▶ LEGEND PLATES

ENGRAVED

Small model

Cat. No.

LIA9081

Alu legend plate, black engraving

For round and square frames cat. nos. LWP3, LWP4 et LWP2 (p. 73)

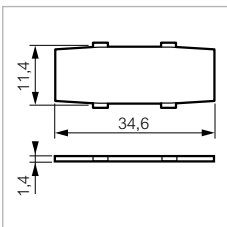
With standard engraving

O-I	LIA9081
I-II	LIA9082
I-O-II	LIA9091
MANU-O-AUTO	LIA9191
HAND-O-AUTO	LIA9291
START	LIA9301
ON	LIA9303
OFF	LIA9304
RESET	LIA9315
RUN	LIA9327
HAND-AUTO	LIA9383

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

LIA9□□□

ENGRAVED	Large model		
		Alu legend plate, black engraving For round frame cat. no. LWG3 (p. 73) OFF-ON O-I-START	LIB9382 LIB9093
LIB9382			

Accessories ø 22



Characteristics (p. 98)

FRAMES

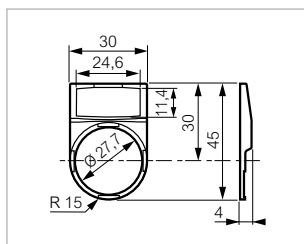
ROUND

Standard model

Cat. No.



LWP3



For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 71)

● Black

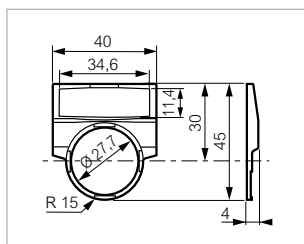
LWP3

ROUND

Large model



LWG3



For legend plates cat. nos. LIB5, LIB1, LIB 9, LIB 3 (p. 71)

● Black

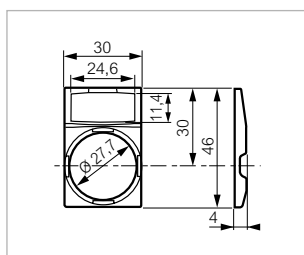
LWG3

SQUARE

Standard model



LWP4



For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 71)

● Black

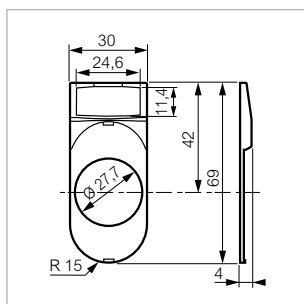
LWP4

FOR DOUBLE AND TRIPLE TOUCH

Standard model



LWP2



For legend plates cat. nos. LIA5, LIA1, LIA 9, LIA 3 (p. 71)

● Black

LWP2

Engravings

Symbol code to be added at the end of the catalogue number

STANDARD TEXTS

UNIVERSAL TEXT

Cat. No.

For selector switches and legend plates

O-I	081
I-II	082
I-O-II	091
I-II-III	092
O-I-START	093
O-I-II	094

ENGLISH TEXT

For buttons, pilot lights and legend plates

CLOSE	314
DOWN	336
FAST	310
FORWARD	305
INCH	329
JOG	328
LEFT	311
LOWER	308
OFF	304
ON	303
OPEN	313
POWER-ON	330
RAISE	307
RESET	315
REVERSE	306
RIGHT	312
RUN	327
SLOW	309
START	301
STOP	302
UP	335

For selector switches and legend plates

FORW.-OFF-REV.	392
HAND-AUTO	383
HAND-OFF-AUTO	391
LOCAL-OFF-REMOTE	393
OFF-ON	382
STOP-START	381

Engravings

Symbol code to be added at the end of the catalogue number

► STANDARD TEXTS (CONTINUED)

GERMAN TEXT

Cat. No.

For buttons, pilot lights and legend plates

AB	208
AUF	207
AUS	204
BETRIEB	224
BREMSEN	225
EIN	203
EINRICHTEN	223
FEINHEBEN	221
FEINSENKEN	222
HALT	202
HEBEN	219
LANGSAM	209
LINKS	211
RECHTS	212
RÜCKWÄRTS	206
SENKEN	220
SCHNELL	210
VORWÄRTS	205
VORRÜCKEN	226
ZU	214

For selector switches and legend plates

AUS-EIN	281
HAND-AUTO	283
HAND-O-AUTO	291
ZURÜCK-O-VOR	292

FRENCH TEXT

For buttons, pilot lights and legend plates

ALARME	133
ARRÊT	102
ARRÊT GÉNÉRAL	116
ARRIÈRE	106
AVANT	105
DÉCLENCHEMENT	131
DÉFAUT	132
DESCENTE	108
DROITE	112
EN SERVICE	103
FERMETURE	114
GAUCHE	111
HORS SERVICE	104
KLAXON	118
LENT	109
MARCHE	101
MONTÉE	107
OUVERTURE	113
RÉARMEMENT	115
SOUS TENSION	117
VITE	110

For selector switches and legend plates

ARRÊT-MARCHE	181
AVANT -O- ARRIÈRE	192
C.P.C.-NORMAL	184
HORS-EN	182
MANU-AUTO	183
MANU -O- AUTO	191

Symbols

Symbol code to be added at the end of the catalogue number

STANDARD SYMBOLS ISO/DIN

Description	Symbol	Cat. No.
Continuous straight-line movement ISO 1		A01
Alternating straight-line movement ISO 5		A05
Continuous rotating movement clockwise ISO 7A - DIN 100		A07
Continuous rotating mov. anti-clockwise ISO 7B		B07
Forward ISO 16		A16
Increase in value ISO 28		A28
Decrease in value ISO 29		A29
Adjustable ISO 62		A62
Clamp, block apply pressure ISO 63A		A63
Clamp, block apply pressure ISO 63B		B63
Unclamp, release ISO 64A		A64
Unclamp, release ISO 64B		B64
Brake ISO 65		A65
Release brake ISO 66		A66
Automatic cycle (or semi-automatic) ISO 67		A67
Manual control ISO 68		A68
"ON" close circuit ISO 69		A69
"STOP" close circuit ISO 70		A70
ON/OFF close + open circuit ISO 71		A71
Close circuit manual impulse ISO 72		A72
Clutch ISO 74 - DIN 46		A74

Symbols

Symbol code to be added at the end of the catalogue number

STANDARD SYMBOLS ISO/DIN (CONTINUED)

Description	Symbol	Cat. No.
De-clutch ISO 75 - DIN 45		A75
Warning "live" (energized) ISO 92 - DIN 131		A92
Main switch ISO 94		A94
Lubrification jet ISO 101		C01
Machine lighting ISO 102 - DIN 139		C02
Greasing ISO 107 - DIN 175		C07
Blow ISO 108 - DIN 263		C08
Suction ISO 109 - DIN 264		C09
Sound alarm DIN 155		D01
Emergency stop IEC 60417-5638 / ISO 13850		6964

ADDITIONAL STANDARD SYMBOLS

Symbol	Cat. No.
	B01
	E01
	F01
	B62
	E62
	F62
	003
	004
	005

Catalogue No. in bold: normally in stock at distribution outlets

Accessories ø 22



Characteristics (p. 98)

▶ BUTTON PLATES - FOR HEADS WITHOUT BUTTON PLATE

NON ILLUMINATED Cat. No.



LT05

For use with spring return button cat. no. L21AAoo (p. 23)

Without engraving

● Red	LT01
● Green	LT02
● Black	LT03
● Yellow	LT04
○ White	LT05
● Blue	LT06



LT21302

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

● Red	LT21	□□□
● Green	LT22	□□□
● Black	LT23	□□□
● Yellow	LT24	□□□
○ White	LT25	□□□
● Blue	LT26	□□□

ILLUMINATED



LT20

For use with spring return button cat. no. L21AHoo (p. 40)

Without engraving

● Red	LT10
● Green	LT20
● Yellow	LT40
○ White	LT50
● Blue	LT60



LT34308

On demand engraving (p. 74)

Symbol code to be added at the end of the catalogue number

● Red	LT31	□□□
● Green	LT32	□□□
● Yellow	LT34	□□□
○ White	LT35	□□□
● Blue	LT36	□□□

Accessories ø 22



Characteristics (p. 98)

► SHROUDS - REINFORCED DEGREE OF PROTECTION: IP 67

FOR PUSH-BUTTONS PROJECTING

Cat. No.



LWA0203

For spring return or stay-put buttons

○ Transparent

LWA0228

For non illuminated spring return buttons

- Red opaque
- Green opaque
- Black opaque

LWA0203

LWA0204

LWA0205

FOR PUSH-BUTTONS FLUSH



LWA0253

For spring return or stay-put buttons

○ Transparent

LWA0255

For non illuminated spring return buttons

- Red opaque
- Green opaque
- Black opaque

LWA0251

LWA0252

LWA0253

DOUBLE TOUCH



LWA0223

For double touch flush-projecting and triple touch

○ Transparent

LWA0223

Accessories ø 22

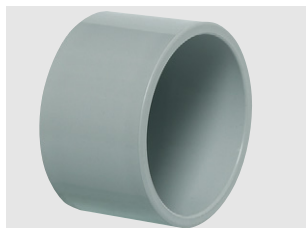


Characteristics (p. 98)

► MISCELLANEOUS

GUARD

Cat. No.



LWA0225

For spring return button and spring return mushroom head
(maxi ø 40)

● Grey

LWA0225

PADLOCKABLE GUARD



LWA0240

For stay-put mushroom head

● Yellow

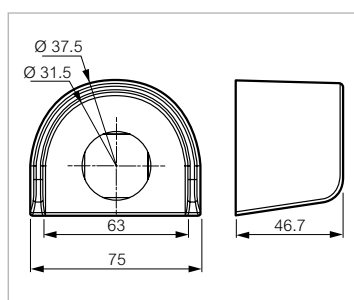
High (Height: 40 mm)

LWA0240

YELLOW GUARD RING



LWA0242



For emergency stop button

● Yellow

LWA0242

Accessories ø 22



Characteristics (p. 98)

► MISCELLANEOUS (CONTINUED)

SQUARE FRAME

Cat. No.



LWA0230

For turning a round shape button or a pilot light into a square shape

● Black

LWA0230

RELAY TERMINAL (EARTH OR NEUTRAL)



LWA0216

For control station
Base mounted

LWA0216

ANTI-ROTATION RING



LWA0237

For selector switches

LWA0237

BLANKING PLUG



LWA0229

● Black
● Grey

LWA0229
LWA0215

Accessories ø 22



Characteristics (p. 98)

► MISCELLANEOUS (CONTINUED)

FIXING TOOL

Cat. No.



Fixing tool for locking ring

LWA0234

LWA0234

REDUCTION RING ø 30/22



Converts ø 30 mm cut-out to 22 mm hole

● Grey

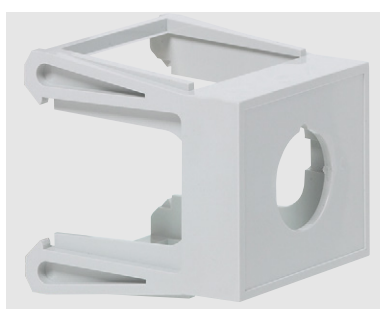
LWA0219

● Yellow

LWA0220

LWA0219

PUSH BUTTON SUPPORT CLIP-ON TO DIN RAIL

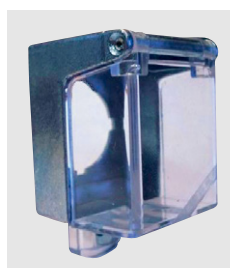


For pilot lights, spring return buttons and selector switches

LWA0238

LWA0238

PADLOCKABLE SHROUD



For spring return push-buttons

LWA0226

LWA0226

Catalogue No. in bold: normally in stock at distribution outlets

▶ BLOCKS AND CLIPS

Options :

- ☐ Illuminated button
- ☐ ISO 13850 emergency stop
- ☐ IP 67 shroud
- ☐ Black frame
- ☐ Guard for buttons
- ☐ Guard for mushroom heads

Size (mm):

- Mushroom head ☐ Ø 32
☐ Ø 40
☐ Ø 70

Colour :

- ☐ Colourless ☐ Green
☐ Black ☐ Red
☐ White ☐ Blue
☐ Yellow

Bezel :

- ☐ black
- ☐ matt chromed

▶ ENGRAVINGS

Fill in the grid (see below)

- ☐ on head
 - ☐ standard text or symbol
 - ☐ other text (2 x 8 characters)

- ❑ on legend plate :
 - ❑ standard
(2 x 13 characters)
 - ❑ large model
(2 x 18 characters)

Ground colour:

- ☐ white
- ☐ red
- ☐ alu
- ☐ black

Type of block

- ① NO
- ② NC
- ③ NO/NC
- ④ Transformer
- ⑤ Filter
- ⑥ Junction
- ⑦ Empty
- ⑧ Lamp-test
- ⑨ LED

Voltage: ☐ 24 V
☐ 130 V
☐ 230 V

Colour: ☐ red
☐ green
☐ yellow
☐ white
☐ blue

Connection :

- ☐ Screw
- ☐ Faston
- ☐ Plug-in
- ☐ Pin-Style (for PCB)

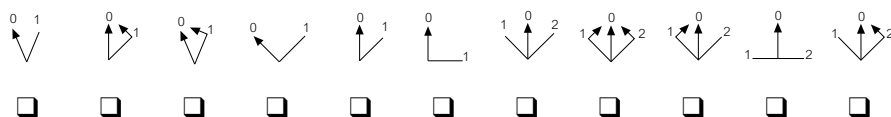
Clips :

- ☐ 1 position 
- ☐ 3 positions 
- ☐ 5 positions 
- ☐ 6 positions 

Options :

- Head, block and clip assembled

SELECTOR SWITCHES' SWITCHING ANGLE



Key free in position : ☐ 0 ☐ 1 ☐ 2 ☐ other (attach diagram)

YOUR DETAILS

Company:.....

Name and surname:

Address:.....

E-mail :

Tel.:

Fax:

COMMENTS

ENGRAVING

Control stations

solution boxes



**Control stations with
mushroom heads**
pre-assembled



Control stations with buttons
1, 2 or 3 buttons

► ADVANTAGES

"All types of control station applications can be achieved"

- Multipurpose, pre-equipped with mushroom head or pushbuttons
- Enclosures for custom assembly 1,2,3,4 or 5 holes
- Up to 3 blocks per position
- Innovative design



Enclosures
1, 2, 3, 4 or 5 holes

► SPECIAL REQUEST

Custom assemblies and engraving options

BACO
Request form for specific control station Ø 22

► EQUIPPED CONTROL STATION (fill in one form for each type of product)

Mounting: ☐ horizontal ☐ vertical
Unit type: ☐ 1 hole ☐ 2 holes ☐ 3 holes ☐ 4 holes ☐ 5 holes
(yellow covers only 1 hole)

Choice of head (enter the corresponding number in the table)

Number	Head description
1	1. Spring return projecting
2	2. Push-push stop push-button
3	3. Push-push stop push-button
4	4. Push-push stop push-button
5	5. Push-push stop push-button
6	6. Mushroom head push-button
7	7. Mushroom head push-button
8	8. Mushroom head push-button
9	9. Mushroom head push-button
10	10. Mushroom head push-button
11	11. Mushroom head push-button
12	12. Mushroom head push-button
13	13. Mushroom head push-button
14	14. Mushroom head push-button
15	15. Mushroom head push-button
16	16. Mushroom head push-button
17	17. Mushroom head push-button
18	18. Mushroom head push-button
19	19. Mushroom head push-button
20	20. Mushroom head push-button
21	21. Mushroom head push-button
22	22. Mushroom head push-button
23	23. Mushroom head push-button
24	24. Mushroom head push-button
25	25. Mushroom head push-button
26	26. Mushroom head push-button
27	27. Mushroom head push-button
28	28. Mushroom head push-button
29	29. Mushroom head push-button
30	30. Mushroom head push-button
31	31. Mushroom head push-button
32	32. Mushroom head push-button
33	33. Mushroom head push-button
34	34. Mushroom head push-button
35	35. Mushroom head push-button
36	36. Mushroom head push-button
37	37. Mushroom head push-button
38	38. Mushroom head push-button
39	39. Mushroom head push-button
40	40. Mushroom head push-button
41	41. Mushroom head push-button
42	42. Mushroom head push-button
43	43. Mushroom head push-button
44	44. Mushroom head push-button
45	45. Mushroom head push-button
46	46. Mushroom head push-button
47	47. Mushroom head push-button
48	48. Mushroom head push-button
49	49. Mushroom head push-button
50	50. Mushroom head push-button
51	51. Mushroom head push-button
52	52. Mushroom head push-button
53	53. Mushroom head push-button
54	54. Mushroom head push-button
55	55. Mushroom head push-button
56	56. Mushroom head push-button
57	57. Mushroom head push-button
58	58. Mushroom head push-button
59	59. Mushroom head push-button
60	60. Mushroom head push-button
61	61. Mushroom head push-button
62	62. Mushroom head push-button
63	63. Mushroom head push-button
64	64. Mushroom head push-button
65	65. Mushroom head push-button
66	66. Mushroom head push-button
67	67. Mushroom head push-button
68	68. Mushroom head push-button
69	69. Mushroom head push-button
70	70. Mushroom head push-button
71	71. Mushroom head push-button
72	72. Mushroom head push-button
73	73. Mushroom head push-button
74	74. Mushroom head push-button
75	75. Mushroom head push-button
76	76. Mushroom head push-button
77	77. Mushroom head push-button
78	78. Mushroom head push-button
79	79. Mushroom head push-button
80	80. Mushroom head push-button
81	81. Mushroom head push-button
82	82. Mushroom head push-button
83	83. Mushroom head push-button
84	84. Mushroom head push-button
85	85. Mushroom head push-button
86	86. Mushroom head push-button
87	87. Mushroom head push-button
88	88. Mushroom head push-button
89	89. Mushroom head push-button
90	90. Mushroom head push-button

► YOUR DETAILS

Company: _____

Name and surname: _____

Address: _____

E-mail: _____

Tel: _____

Fax: _____

COMMENTS

SELECTOR SWITCHES' SWITCHING ANGLE

Key free in position: ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24 ☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32 ☐ 33 ☐ 34 ☐ 35 ☐ 36 ☐ 37 ☐ 38 ☐ 39 ☐ 40 ☐ 41 ☐ 42 ☐ 43 ☐ 44 ☐ 45 ☐ 46 ☐ 47 ☐ 48 ☐ 49 ☐ 50 ☐ 51 ☐ 52 ☐ 53 ☐ 54 ☐ 55 ☐ 56 ☐ 57 ☐ 58 ☐ 59 ☐ 60 ☐ 61 ☐ 62 ☐ 63 ☐ 64 ☐ 65 ☐ 66 ☐ 67 ☐ 68 ☐ 69 ☐ 70 ☐ 71 ☐ 72 ☐ 73 ☐ 74 ☐ 75 ☐ 76 ☐ 77 ☐ 78 ☐ 79 ☐ 80 ☐ 81 ☐ 82 ☐ 83 ☐ 84 ☐ 85 ☐ 86 ☐ 87 ☐ 88 ☐ 89 ☐ 90

Specify the concerned buttons numbers are referred to:

See page 94



Control stations ø 22

IP 66
Base mounted contact- screw terminals
Conform to IEC 60947-5-1
Marking on control station
Frames and legend plates (p. 70)
Special engraving on enclosure and mounting (form p. 94)



Characteristics (p. 98)

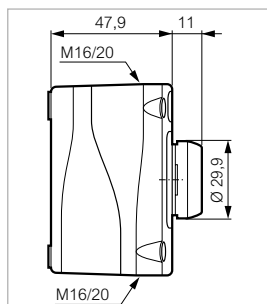
► CONTROL STATIONS WITH 1 BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



LBX10110



● Green
● Red

NO
NC



Marking

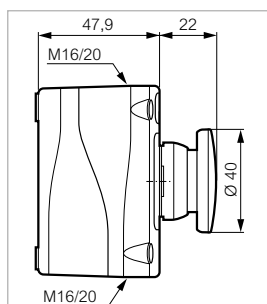


LBX10110
LBX10610

MUSHROOM HEAD ø 40 - SPRING RETURN



LBX10210



● Red

NC



Marking

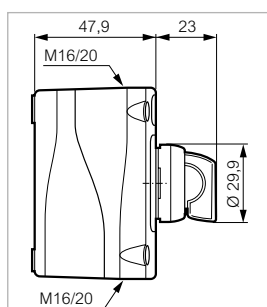


LBX10210

SELECTOR SWITCH - WITH HANDLE



LBX12510



2 stay-put positions - 45°

● Black

NO



Marking



LBX12510

Control stations ø 22

IP66
Base mounted contact- screw terminals
Conform to IEC 60947-5-1
Marking on control station
Frames and legend plates (p. 70)
Special marking and mounting (form p. 94)



Characteristics (p. 98)

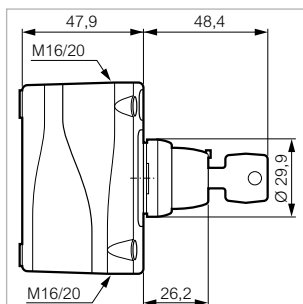
► CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

SELECTOR SWITCH - WITH KEY

Cat. No.



LBX12610



Supplied with 2 keys profile n° 455

2 stay-put positions - 45°
Key free in position 0-1

● Black NO 

Marking

○
I

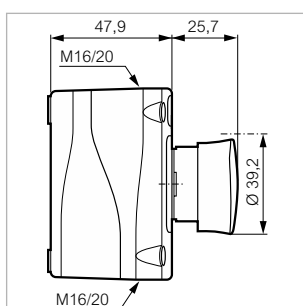
LBX12610

MUSHROOM HEAD Ø 40 - STAY-PUT

Push-turn to reset



LBX10510



● Red NC 
● Red NC 
● Red NC 

ARRÊT D'URGENCE
NOT AUS
EMERGENCY STOP

LBX10310
LBX10410
LBX10510

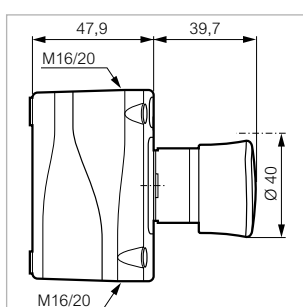
Contact blocks fixed behind cover (form p. 94)

MUSHROOM HEAD Ø 40 ISO 13850 - STAY-PUT

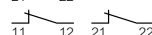
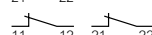
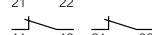
Push-turn to reset



LBX17201



Compliant with the requirements of emergency stop:
IEC 60947-5-5 / ISO 13850

● Red NC 
● Red 2 NC 
● Red NC 
● Red 2 NC 
● Red NC 
● Red 2 NC 

ARRÊT D'URGENCE +  LBX17101
ARRÊT D'URGENCE +  LBX17102
NOT-HALT +  LBX17201
NOT-HALT +  LBX17202
EMERGENCY STOP +  **LBX17301**
EMERGENCY STOP +  **LBX17302**

Contact blocks fixed behind cover (form p. 94)

Control stations ø 22

IP 66
Base mounted contact- screw terminals
Conform to IEC 60947-5-1
Marking on control station
Frames and legend plates (p. 70)
Special engraving and mounting (form p. 94)



Characteristics (p. 98)

► CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

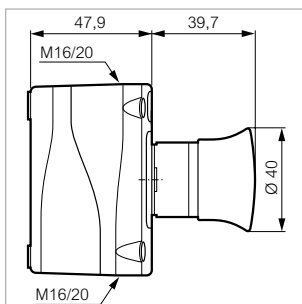
MUSHROOM HEAD Ø 40 ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



LBX15101



Compliant with the requirements of emergency stop: IEC 60947-5-5 / ISO 13850

• Red	NC		ARRÊT D'URGENCE +	LBX15101
• Red	2 NC		ARRÊT D'URGENCE +	LBX15102
• Red	NC		NOT-HALT +	LBX15201
• Red	2 NC		NOT-HALT +	LBX15202
• Red	NC		EMERGENCY STOP +	LBX15301
• Red	2 NC		EMERGENCY STOP +	LBX15302

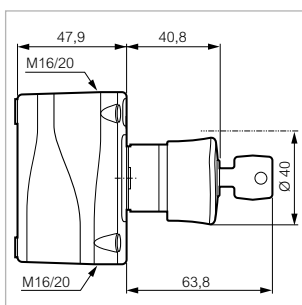
Contact blocks fixed behind cover (form p. 94)

MUSHROOM HEAD Ø 40 ISO 13850 - STAY-PUT

Key to reset



LBX11302



Compliant with the requirements of emergency stop: IEC 60947-5-5 / ISO 13850
Supplied with 2 keys profile n° 455

• Red	NC		ARRÊT D'URGENCE +	LBX11101
• Red	2 NC		ARRÊT D'URGENCE +	LBX11102
• Red	NC		NOT-HALT +	LBX11201
• Red	2 NC		NOT-HALT +	LBX11202
• Red	NC		EMERGENCY STOP +	LBX11301
• Red	2 NC		EMERGENCY STOP +	LBX11302

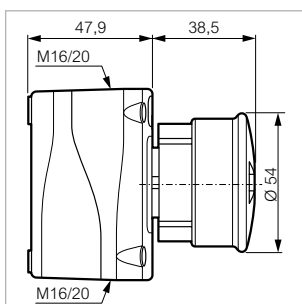
Contact blocks fixed behind cover (form p. 94)

MUSHROOM HEAD Ø 54 ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator



LBX14201



Compliant with the requirements of emergency stop: IEC 60947-5-5 / ISO 13850
Double position indicator: head and collar

• Red	NC		STOP -	LBX14201
• Red	2 NC		STOP -	LBX14202

Contact blocks fixed behind cover (form p. 94)

Control stations ø 22

IP 66
Base mounted contact- screw terminals
Conform to IEC 60947-5-1
Marking on control station
Frames and legend plates (p. 70)
Special engraving and mounting (form p. 94)

 Characteristics (p. 98)

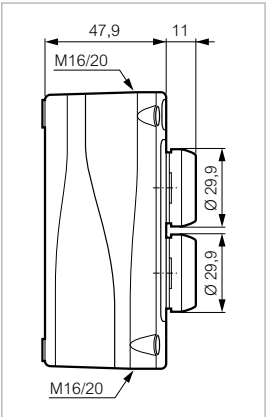
▶ CONTROL STATIONS WITH 2 BUTTONS

SPRING RETURN - FLUSH

Cat. No.



LBX20120



● Green
● Red

NO
NC



Marking



LBX20120

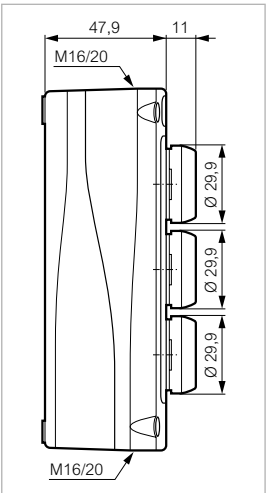
▶ CONTROL STATIONS WITH 3 BUTTONS

SPRING RETURN - FLUSH

Cat. No.



LBX30430



● Green
● Red
● Green

NO
NC
NO



LBX30430

Control stations with 4 or 5 buttons (form p. 94)

Control stations ø 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 23-49
 - specific blocks for control stations (base mounted) p. 66
 - frames and legend plates p. 70
 Other control stations to be equipped (form p. 94)



Characteristics (p. 98)

ENCLOSURES

1 HOLE

Cat. No.

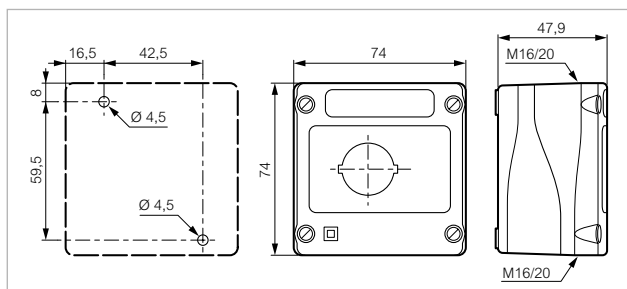


LBX0100J

Black base

- Grey cover
- Yellow cover
- Black cover
- Red cover
- Yellow cover with symbol IEC 60417 - 5438 / ISO 13850

LBX0100
LBX0100J
 LBX0100N
 LBX0100RN
 LBX130167



2 HOLES

Cat. No.

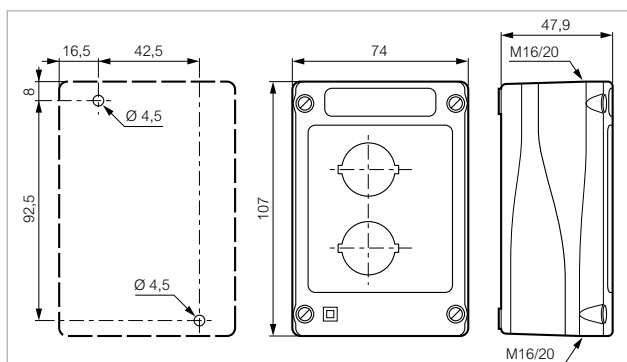


LBX0200

Black base

- Grey cover
- Yellow cover

LBX0200
 LBX0200J



Catalogue No. in bold: normally in stock at distribution outlets

Control stations ø 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 23-49
 - specific blocks for control stations (base mounted) p. 66
 - frames and legend plates p. 70
 Other enclosures (form p. 94)



Characteristics (p. 98)

► ENCLOSURES (CONTINUED)

3 HOLES

Cat. No.

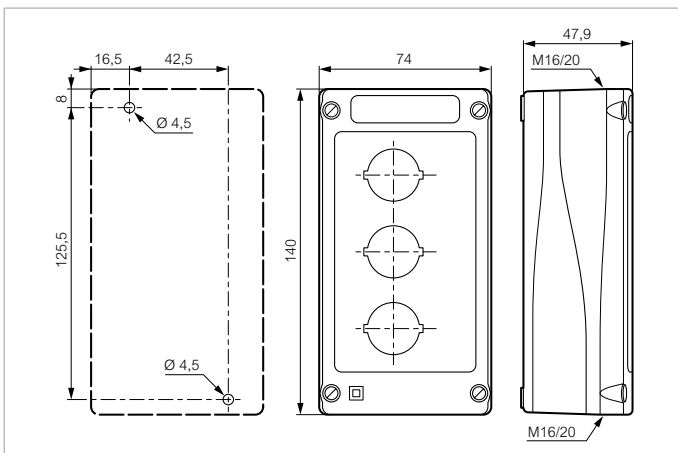


LBX0300

Black base

● Grey cover

LBX0300



Control stations ø 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 23-49
 - specific blocks for control stations (base mounted) p. 66
 - frames and legend plates p. 70
 Other enclosures (form p. 94)



Characteristics (p. 98)

► ENCLOSURES (CONTINUED)

4 HOLES

Cat. No.

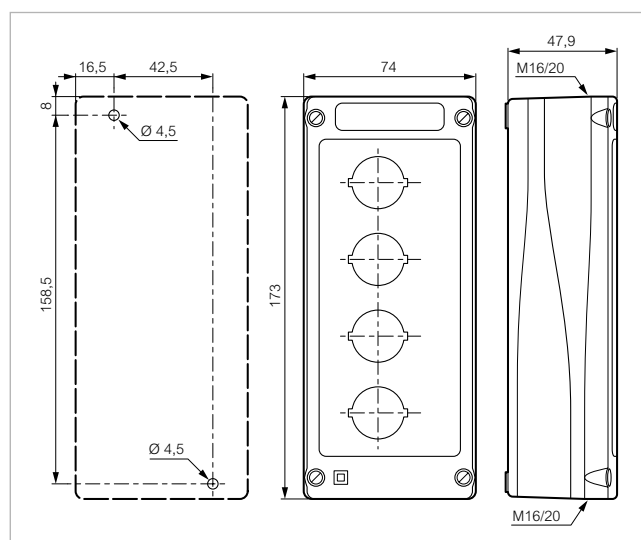


Black base

● Grey cover

LBX0400

LBX0400



Control stations ø 22

Empty enclosures to be equipped with:
 - illuminated or non illuminated heads p. 23-49
 - specific blocks for control stations (base mounted) p. 66
 - frames and legend plates p. 70
 Other enclosures (form p. 94)



Characteristics (p. 98)

► ENCLOSURES (CONTINUED)

5 HOLES

Cat. No.

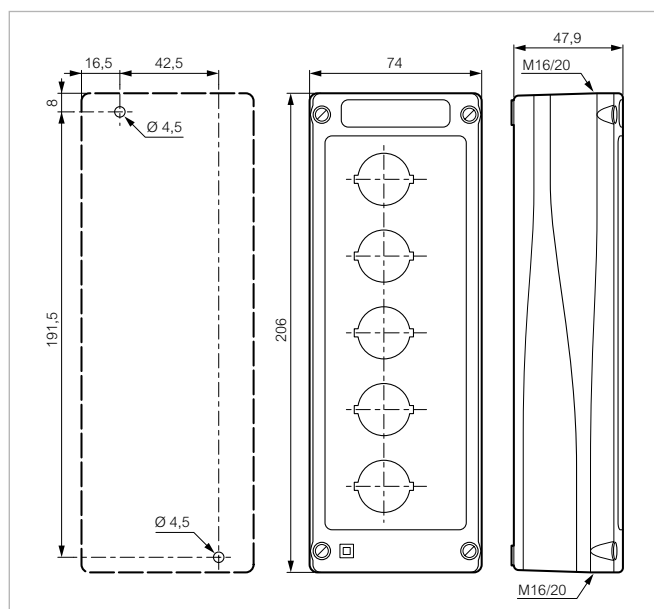


Black base

● Grey cover

LBX0500

LBX0500



Mounting: ☐ horizontal ☐ vertical

Unit type : ☐ 1 hole ☐ 2 holes ☐ 3 holes ☐ 4 holes ☐ 5 holes
☐ yellow cover (only 1 hole)

1		8		13		1	Spring return flush	8	Mushroom head push-turn stay-put
2		9		14		2	Push-push stay-put flush	9	Mushroom head with key
3		10		15		3	Spring return projecting	10	Selector switch with handle
4		11		16		4	Push-push stay-put projecting	11	Selector switch with long handle
5		12				5	Mushroom head spring return	12	Knob selector switch
6						6	Mushroom head push-pull stay-put		
7						7	Mushroom head Ø 54 push-pull with flag indicator		

[illegible]

			Colour				
	☐ On head	☐ On control station ⁽¹⁾	☐ On legend plate ⁽²⁾	BLACK	RED	ALU	WHITE
							

The figure consists of 10 diagrams arranged in a single row, separated by vertical green lines. Each diagram shows a central node with edges extending outwards. The edges are labeled with numbers 0, 1, and 2. The sequence of diagrams is as follows:

- Diagram 1: A central node with two edges, one labeled 0 and one labeled 1, forming a V-shape.
- Diagram 2: A central node with two edges, one labeled 0 and one labeled 1, forming a V-shape. The edge labeled 1 is slightly curved.
- Diagram 3: A central node with two edges, one labeled 0 and one labeled 1, forming a V-shape. The edge labeled 1 is slightly curved.
- Diagram 4: A central node with two edges, one labeled 0 and one labeled 1, forming a V-shape. The edge labeled 1 is slightly curved.
- Diagram 5: A central node with two edges, one labeled 0 and one labeled 1, forming a V-shape. The edge labeled 1 is slightly curved.
- Diagram 6: A central node with two edges, one labeled 0 and one labeled 1, forming a V-shape. The edge labeled 1 is slightly curved.
- Diagram 7: A central node with two edges, one labeled 0 and one labeled 1, forming a V-shape. The edge labeled 1 is slightly curved.
- Diagram 8: A central node with two edges, one labeled 0 and one labeled 1, forming a V-shape. The edge labeled 1 is slightly curved.
- Diagram 9: A central node with two edges, one labeled 0 and one labeled 1, forming a V-shape. The edge labeled 1 is slightly curved.
- Diagram 10: A central node with two edges, one labeled 0 and one labeled 1, forming a V-shape. The edge labeled 1 is slightly curved.

Specify the concerned buttons:

Company:

.....

.....

Name and surname:

.....

.....

Address:

.....

.....

E-mail :

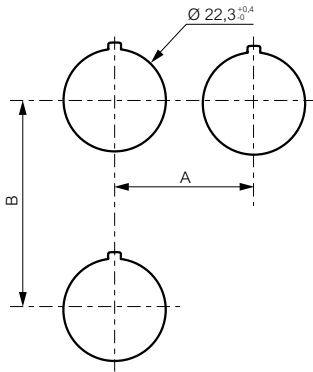
Tel.:

Fax:

COMMENTS	

Panel cut-out

DRILLING

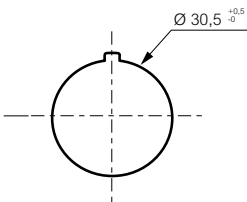


For heads equipped with electrical blocks with screw or plug-in terminals

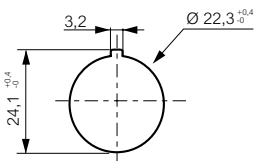
Minimum interval (mm)

	= 30	With or without legend (usual case)
	= 33	IP 67 (silicon shroud)
	= 40	With large legend plate
A	> 40	For mushroom head Ø 40
	> 45	For selector switch with long handle
	= 38	For super-flush button
	= 50	With 5 position clip
	= 45	With or without legend plate (usual case)
	= 54	With double touch
B	= 77	With double touch + legend plate
	= 50	Joystick

DRILLING FOR SUPER-FLUSH BUTTON

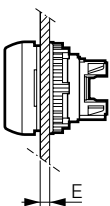


DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



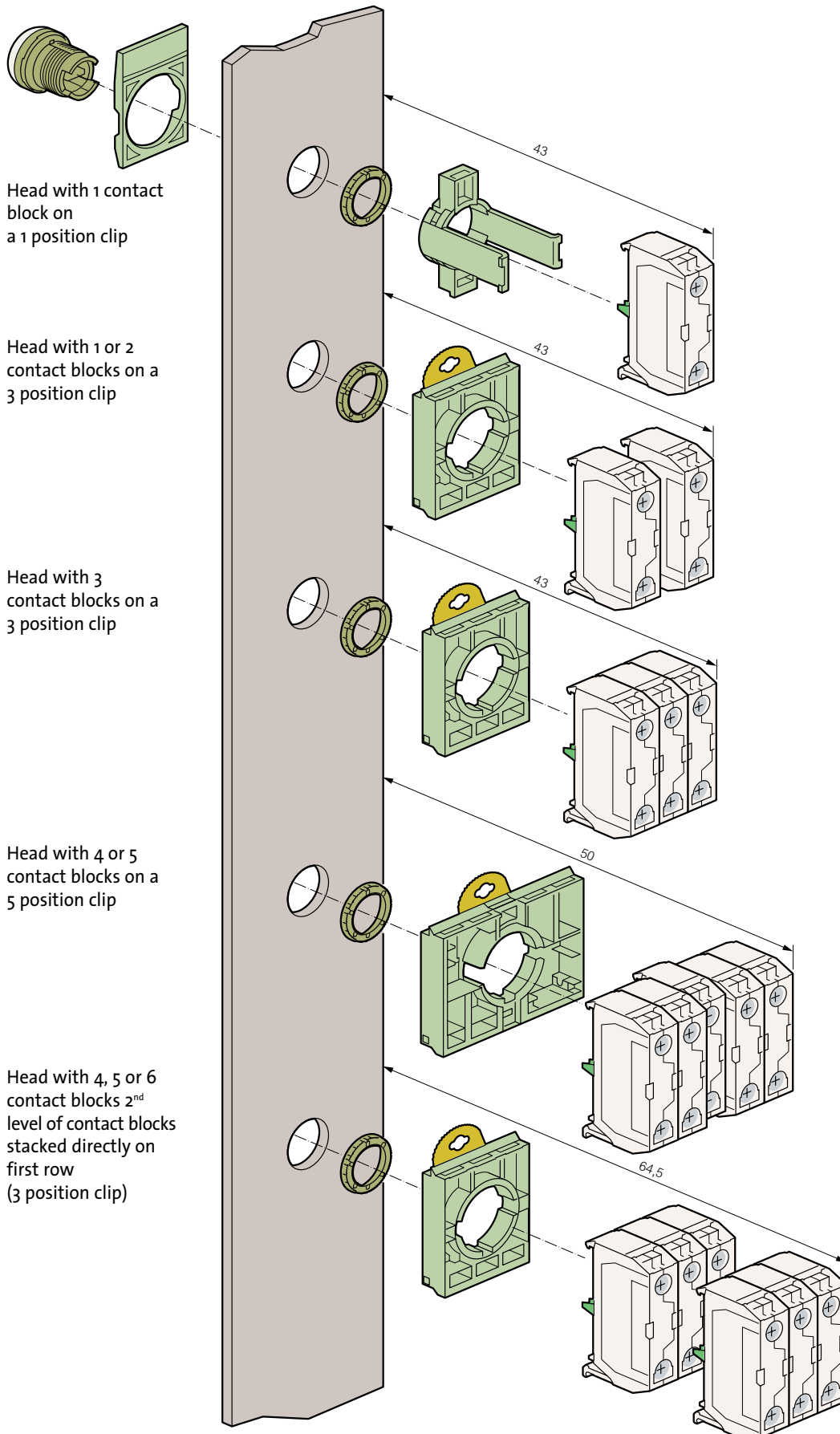
THICKNESS OF PANEL (E)

E = 1 to 6 mm



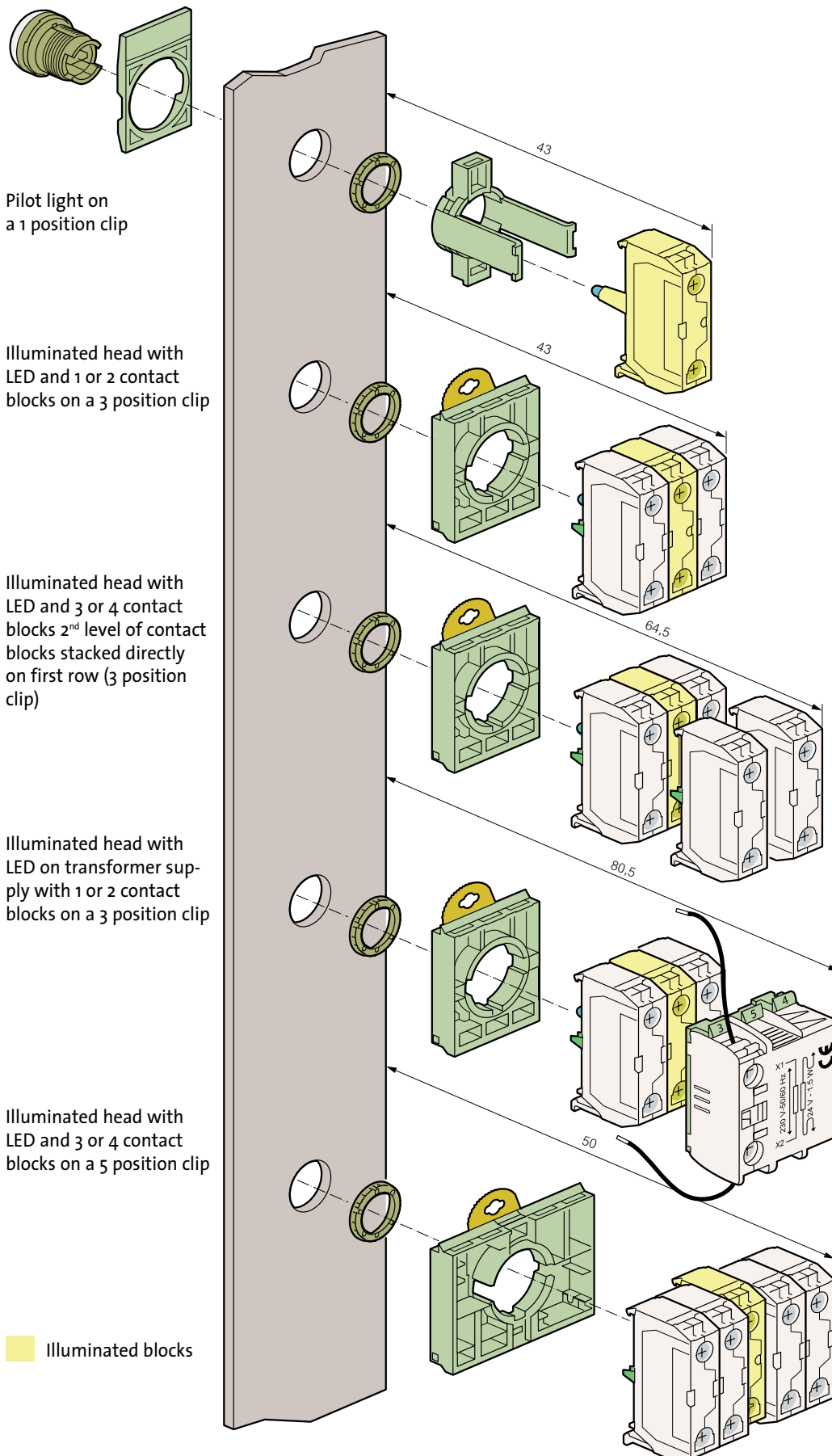
Mounting blocks $\varnothing 22$

NON ILLUMINATED



Mounting blocks ø 22

ILLUMINATED



Technical characteristics

► GENERAL

Characteristics	Data	Standards
► Storage temperature	- 40 °C to + 70 °C	
► Operating temperature	- 25 °C to + 70 °C	
► Climatic resistance	Constant humid heat Cyclic damp heat Resistance to sea air	IEC 60068-2-3 IEC 60068-2-30 IEC 60068-2-52
► Degree of protection	IP 65 for adjustable mechanical push button IP 65 for USB interface IP 66 for standard heads IP 67 for shrouded heads IP 66 for equipped control stations IP 69 and IP 69K for push buttons IP 69 and IP 69K for selector switches IP 69 and IP 69K for pilot devices IP 69 and IP 69K for emergency stops IP 69 and IP 69K for audible warning buzzers IP 20 at the rear of the panel for contact blocks and one piece pilot lights Type 1, 2, 3, 3R, 3S, 4, 4X, 12, and 13 for heads and control stations	IEC 60529 IEC 60529 IEC 60529 IEC 60529 IEC 60529 IEC 60529 - ISO 20653 IEC 60529 - ISO 20653 IEC 60529 - ISO 20653 IEC 60529 - ISO 20653 IEC 60529 - ISO 20653 NEMA standard
► Protection against mechanical impacts	IK 05 illuminated and non illuminated heads IK 07 empty control station	IEC 62262
► Electrical insulation	Class II - heads and control station	IEC 60947-5-1
► Terminal marking		IEC 60947-1
► Tightening torques	Locking ring: recommended 3 N.m or tightened with the fixing tool to hand tight after pressure point plus another half turn Terminals: max. 1.2 N.m	
► Approvals	UL United states and Canada BV Bureau Veritas Certification OC/CB	UL 508, CSA 22.2 Marine rules IEC 60947-5-1 IEC 60947-5-5 IEC 60947-5-4
► Vibrations	withstand vibration Fc test: 2 to 25 Hz, 1.6 mm; 25-100 Hz, 4 g	IEC 60068-2-6

Technical characteristics

▶ CONTACT BLOCKS

Screw and plug-in connection characteristics	Data		Standards
▶ Rated insulation voltage	690 V AC 600 V AC		IEC 60947-1 UL 508
▶ NC contacts	Positive opening		IEC 60947-5-1
▶ Rated impulse voltage Uimp Pollution degree	6kV 3		
▶ Conventional thermal current in free air conditions	AC15: 10 A DC13: 2,5 A		IEC 60947-5-1
▶ Electrical ratings	Alternating current AC15 - A 600 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A Ue = 380 V, Ie = 1,9 A Ue = 480 V, Ie = 1,5 A Ue = 500 V, Ie = 1,4 A Ue = 600 V, Ie = 1,2 A Minimum operating current - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10 ⁻⁸	Direct current DC13 - Q 600 Ue = 125 V, Ie = 0,55 A Ue = 250 V, Ie = 0,27 A Ue = 400 V, Ie = 0,15 A Ue = 500 V, Ie = 0,13 A Ue = 600 V, Ie = 0,1 A - golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10 ⁻⁸	IEC 60947-5-1
▶ Electrical operating life	1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	
▶ Applicable wire sizes	Rigid or flexible wire without ferrule: 0,5 mm ² to 2 x 2,5 mm ² Rigid or flexible wire with ferrule: 0,5 mm ² to 2 x 1,5 mm ²		

Faston connection	Data		Standards
▶ Rated insulation voltage	320 V AC 300 V AC		IEC 60947-1 UL 508
▶ NC contacts	Positive opening		IEC 60947-5-1
▶ Rated impulse withstanding voltage Uimp Pollution degree	6 kV 3		
▶ Conventional thermal current in free air conditions	AC 15: 10 A DC 13: 2,5 A		IEC 60947-5-1
▶ Electrical ratings	Alternating current AC15 - A 300 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A Minimum current of use Ue = 24 V DC and Ie = 5 mA Failure rate < 10 ⁻⁸	Direct current DC13 - Q 300 Ue = 125 V, Ie = 0,55 A Ue = 250 V, Ie = 0,27 A - DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	IEC 60947-5-1
▶ Electrical operating life	1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	
▶ Faston size	6,35 mm or 2 x 2,8 mm		

Technical characteristics

▶ CONTACT BLOCKS

Pin-style connection (for PCB)	Data		Standards
▶ Rated insulation voltage	250 V AC 250 V AC		IEC 60947-1 UL 508
▶ NC contacts	Positive opening		IEC 60947-5-1
▶ Rated impulse withstanding voltage Uimp Pollution degree	4 kV 3		
▶ Conventional thermal current in free air conditions	AC 15: 5 A DC 13: 1 A		IEC 60947-5-1
▶ Electrical ratings	Alternating current AC 15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	Direct current DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	IEC 60947-5-1 IEC 60947-5-4
	Minimum current of use - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10 ⁻⁸	- golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10 ⁻⁸	
	1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A	- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A	
▶ Electrical operating life			
▶ Pin diameter	ø 1 mm		

Technical characteristics

▶ LED BLOCKS FOR ILLUMINATED HEADS AND ONE PIECE LED PILOT LIGHTS

Characteristics	Data	Standards
▶ Rated insulation voltage	300 V	IEC 60947-5-1
▶ Rated impulse voltage Uimp Pollution degree	4 kV (with filter block see p. 68) 3	IEC 60947-1
▶ Operating voltage	12 to 24 V AC/DC 48 V AC/DC (for LED block) 110 V DC 130 V AC 230 V AC	
▶ Frequency	50 or 60 Hz	
▶ Lifetime at rated supply voltage	Red and yellow: 100 000 hours at 25 °C Other colours: 50 000 hours at 25 °C	
▶ Consumption of LED blocks	Voltage: - 24 V: 25 mA ± 20% - 48 V: 15 mA ± 5% - 110 V: 20 mA ± 10% - 130 V: 20 mA ± 10% - 230 V: 16 mA ± 30%	

▶ ONE PIECE PILOT LIGHT

Characteristics	Data	Standards
▶ Rated insulation voltage	300 V	IEC 60947-5-1
▶ Rated impulse withstand voltage Uimp	4 kV	IEC 60947-1
▶ Operating voltage	24 V AC/DC (± 10%) 130 V AC/DC (± 10%) 230 V AC/DC (± 10%)	
▶ Frequency	50 or 60 Hz	
▶ Lifetime at rated supply voltage	Red: 100 000 hours at 25° C Other colours: 50 000 hours at 25° C	
▶ Consumption	24 V: 4,6 mA 130 V: 5,2 mA 230 V: 4,6 mA	

Technical characteristics

► USB INTERFACE 3.0

Characteristics	Data	Standards
► Rated insulation voltage	5 V AC/DC	IEC 60947-5-1
► Rated current	1,8 A	IEC 60947-5-1
► Insulation resistance	$\geq 100 \text{ M}\Omega$	
► Contact resistance	$\leq 30 \text{ M}\Omega$	
► USB class	3.0 (backward compatible with USB class 2.0)	
► Transmission characteristics for	5 Gbps (625 MB/sec)	
► Recommended fixing tool	Tightening flat wrench size 26 mm	

► AUDIBLE WARNING BUZZERS

Characteristics	Data	Standards
► Supply voltage	18 to 30 V AC/DC 85 to 140 V AC/DC 185 to 265 V AC/DC	IEC 60947-5-1
► Rated impulse voltage Uimp	4 KV	IEC 60947-5-1
► Sound Power	80 dB @ 10 cm	
► Frequency	50 or 60 Hz	
► Maximum power consumption	$\leq 20 \text{ mA}$	
► Service life	30000 hours (continuously powered)	
► Recommended fixing tool	Tightening flat wrench size 26 mm	

Technical characteristics

► HEADS

Characteristics	Data	Standards
► Mechanical endurance (in million cycles)	Spring return: 5 Push-push: 0,5 Selector switches: 0,3 Mushroom head maintained function ISO 13850: 0,10 Mushroom head maintained function: 0,15	
► Activation force in N	Spring return + NO: 6,5 Spring return + NC: 4,5 Additional NO contact: 4,5 Additional NC contact: 3,0 Push-pull mushroom head + NO + NC: 27 Push-turn mushroom head + NO + NC: 22 Push-pull mushroom head ISO 13850 + NO + NC: 37 Push-turn mushroom head ISO 13850 + NO + NC: 60	
► Activation force in Nm	Selector switch + NO: 0,04 Additional NO contact: 0,03	

► EMERGENCY STOP ACTUATORS - ISO 13850:

According to IEC 60947-5-5, the emergency stop function can be provided by an ISO 13850 mushroom head combined with a «positive opening» NC contact block.

The mechanism of our ISO 13850 mushroom heads is so designed that a «push» action of sufficient force to open the contact systematically triggers an irreversible locking of this opening. This generates an «emergency stop» signal which can be cancelled only by deliberate manual resetting of the mushroom head (pull and turn or unlocking by key).

This function allows to generate an «emergency stop» signal for any equipment subject to directive 98/37CE (machinery safety) completed by the IEC 60204-1 standard.

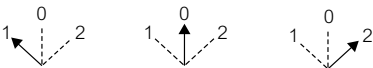
The ISO 13850 mushroom heads also comply with the safety requirements detailed in standard ISO 13850.

Diagrams

MECHANICAL OPERATION

For 3 position selector switches

Handle
(View from front of panel)



Contacts block actuation
(View from front of panel)



Back side view

Non operated block



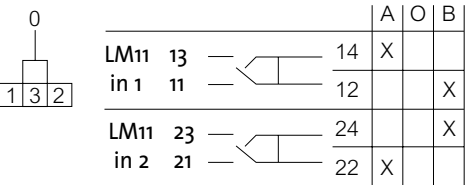
Operated block



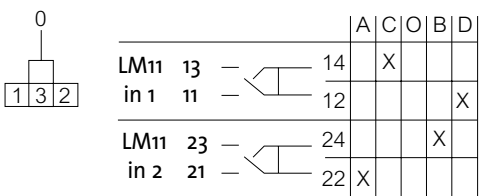
MECHANICAL OPERATION

For Joysticks

2 positions

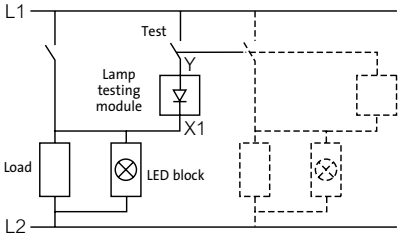


4 positions

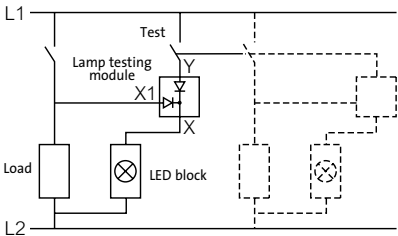


PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

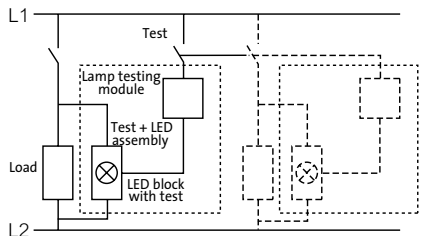
Lamp-testing module with
1 diode (33ET) for direct
supply 24 V and 48V



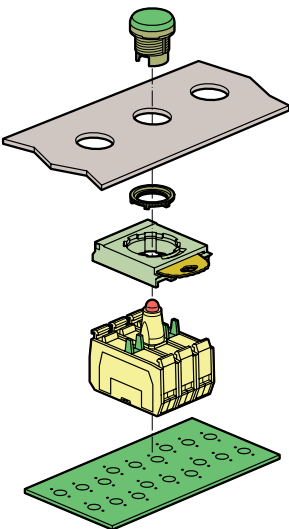
Lamp-testing module with
2 diodes (33ETT) for direct
supply 24 V and 48 V



Lamp-testing assembly
for direct supply 130 V and 240 V
(Consult us - see page 79)



PRINTED CIRCUIT BOARD MOUNTING



Ø 30 heads:

Baco simplifies your choice



- - - **AA** - - definition of function

T16 **AA** - - choice of bezel

T16 AA **02** colour of head

► HEAD COLOUR CODES

01 ● red	04 ● yellow
02 ● green	05 ○ white
03 ● black	06 ● blue

► BEZEL CODES

T11	chrome brilliant plastic
T12	black plastic
T13	grey plastic
T14	chrome brass
T16	matt chrome plastic

► AVANTAGES

- Ø 30 heads use the same clips and blocks as Ø 22 heads
- Fully compatible with the new Ø 22 range
- Wide choice of bezels

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 52)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 123)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 52-69)

Conform to IEC 60947-5-1



Characteristics (p. 125)

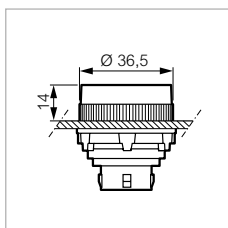
► PUSH-BUTTONS - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



T16AA01



Without engraving

- Red
- Green
- Black
- Yellow
- White
- Blue

T16AA01
T16AA02
T16AA03
T16AA04
T16AA05
T16AA06

With engraving

- Red
- Green
- Black

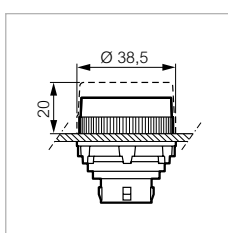
T16AA81
T16AA82
T16AA83

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



T12AG03



Supplied with transparent shroud
Marking possible
(engravings and symbols p. 76)

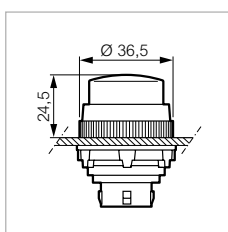
- Red
- Green
- Black
- Yellow
- White
- Blue

T12AG01
T12AG02
T12AG03
T12AG04
T12AG05
T12AG06

SPRING RETURN - PROJECTING



T16AB01



- Red
- Green
- Black
- Yellow
- White
- Blue

T16AB01
T16AB02
T16AB03
T16AB04
T16AB05
T16AB06

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 52)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 123)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 52-69)

Conform to IEC 60947-5-1



Characteristics (p. 125)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

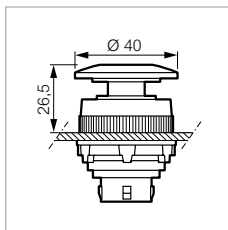
SPRING RETURN - MUSHROOM HEAD Ø 40

Push

Cat. No.



T16AD01



- Red
- Green
- Black
- Yellow

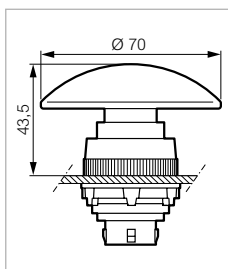
T16AD01
T16AD02
T16AD03
T16AD04

SPRING RETURN - MUSHROOM HEAD Ø 70

Push



T16AE01



- Red - plastic
- Black - plastic

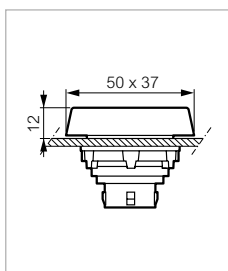
T16AE01
T16AE03

SPRING RETURN - FLUSH-FLUSH

Double touch



T52QA02



Plastic black frame

- Green
- Red
- Black
- Red

T52QA02

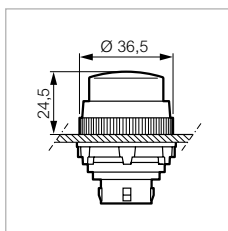
T52QA03

STAY-PUT - PROJECTING

Push-push



T16CB02



- Red
- Green
- Black
- Yellow
- White
- Blue

T16CB01
T16CB02
T16CB03
T16CB04
T16CB05
T16CB06

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 52)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 123)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 52-69)

Conform to IEC 60947-5-1



Characteristics (p. 125)

SELECTOR SWITCHES - NON ILLUMINATED

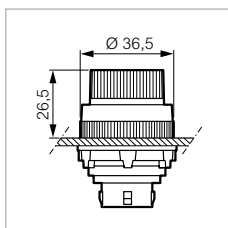
WITH HANDLE

2 positions

Cat. No.



T16KA03



Stay-put positions - 45°

- Red
- Black
- Grey



T16KA01
T16KA03
T16KA08

Stay-put positions - 45°

- Red
- Black
- Grey



T16KC01
T16KC03
T16KC08

Spring return- 45°

- Red
- Black
- Grey



T16KD01
T16KD03
T16KD08

Stay-put positions - 90°

- Red
- Black
- Grey



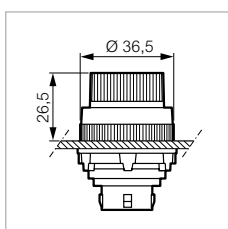
T16KF01
T16KF03
T16KF08

WITH HANDLE

3 positions



T16MA01



Stay-put positions - 45°

- Red
- Black
- Grey



T16MA01
T16MA03
T16MA08

Spring return from right to 0 - 45°

- Red
- Black
- Grey



T16MC01
T16MC03
T16MC08

Spring return to 0 - 45°

- Red
- Black
- Grey



T16MD01
T16MD03
T16MD08

Stay-put positions - 90°

- Red
- Black
- Grey



T16MK01
T16MK03
T16MK08

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 52)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 123)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 52-69)

Conform to IEC 60947-5-1



Characteristics (p. 125)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

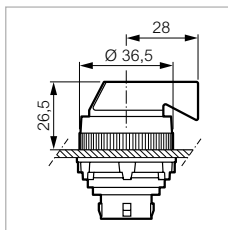
WITH LONG HANDLE

2 positions

Cat. No.



T16KP03



Stay-put positions - 45°

- Red
- Black
- Grey



T16KP01
T16KP03
T16KP08

Stay-put positions - 45°

- Red
- Black
- Grey



T16KR01
T16KR03
T16KR08

Spring return - 45°

- Red
- Black
- Grey



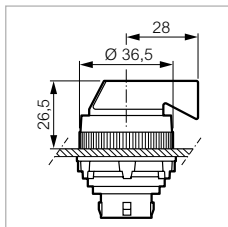
T16KS01
T16KS03
T16KS08

WITH LONG HANDLE

3 positions

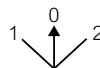


T16MR01



Stay-put positions - 45°

- Red
- Black
- Grey



T16MR01
T16MR03
T16MR08

Spring return from right to 0 - 45°

- Red
- Black
- Grey



T16MT01
T16MT03
T16MT08

Spring return to 0 - 45°

- Red
- Black
- Grey



T16MU01
T16MU03
T16MU08

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 52)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 123)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 52-69)

Conform to IEC 60947-5-1



Characteristics (p. 125)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

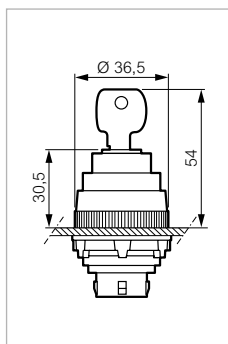
WITH KEY

2 positions

Cat. No.



T16LA00



Supplied with 2 keys profile n° 455

Key free in position:

Stay-put positions - 45°

● Black



0

T16LA00

Stay-put positions - 45°

● Black



0

T16LC00

Spring return- 45°

● Black



0

T16LD00

Stay-put positions - 90°

● Black



0

T16LF00

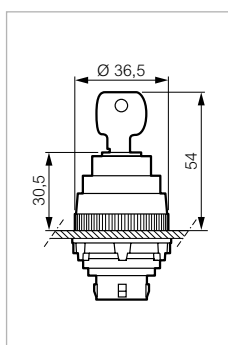
Key profile n° 1424 A and others (form p. 123)

WITH KEY

3 positions



T16NA00



Supplied with 2 keys profile n° 455

Key free in position:

Stay-put positions - 45°

● Black



0

T16NA00

Spring return from right to 0 - 45°

● Black



0

T16NC00

Spring return to 0 - 45°

● Black



0

T16ND00

Stay-put positions - 90°

● Black



1 - 0 - 2

T16NK00

Key profile n° 1424 A and others (form p. 123)

Separate units ø 30: Heads

IP 65
To be combined with a clip and electrical blocks (p. 52)
With locking ring
Plastic chrome bezel- Other bezel on request (form p. 123)
Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 52-69)
Conform to IEC 60947-5-1

 Characteristics (p.125)

► SELECTOR SWITCHES - NON ILLUMINATED (CONTINUED)

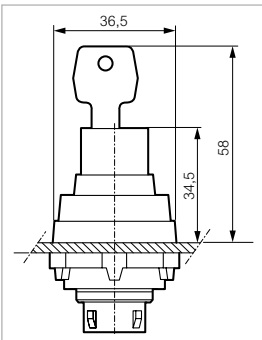
WITH KEY

Push

Cat. No.



T16GM00



Supplied with 2 keys profile n° 455

Lockable position	Key free in:	
Stay-put		
In bottom position	Top and bottom position	T16GM00
Manual locking		
In top position	Top and bottom position	T16GF00
In top position	Bottom position	T16GJ00
In bottom position	Top and bottom position	T16GG00
In bottom position	Bottom position	T16GK00
In top and bottom position	Top and bottom position	T16GH00
In top and bottom position	Bottom position	T16GL00

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 52)

With locking ring

Plastic chrome bezel - Other bezel on request (form p. 123)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 52-69)

Conform to IEC 60947-5-1



Characteristics (p. 125)

► MUSHROOM HEADS - NON ILLUMINATED

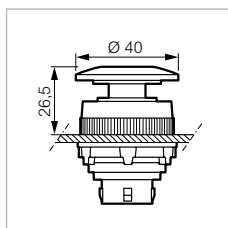
Ø 40 - STAY-PUT

Push-pull to reset

Cat. No.



T16DD01



- Red
- Green
- Black
- Yellow

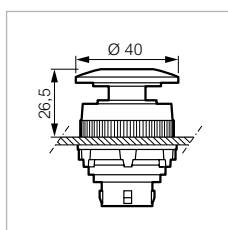
T16DD01
T16DD02
T16DD03
T16DD04

Ø 40 - STAY-PUT

Push-turn to reset



T16ED01



Stay-put

- Red
- Green
- Black
- Yellow

T16ED01
T16ED02
T16ED03
T16ED04

Manual locking

- Red
- Green
- Black
- Yellow

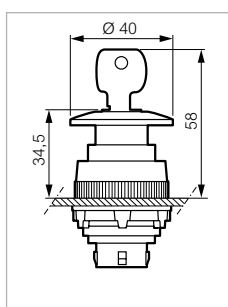
T16FD01
T16FD02
T16FD03
T16FD04

Ø 40 - STAY-PUT

Key to reset



T16GM01



Supplied with 2 keys profile n° 455

- Red

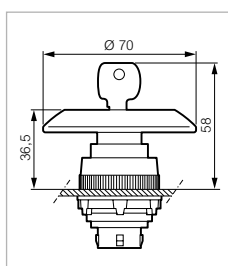
T16GM01

Ø 70 - STAY-PUT

Key to reset



T16GP01



Supplied with 2 keys profile n° 455

- Red

T16GP01

Separate units ø 30: Heads

IP 65
To be used without electrical block
Black plastic bezel
Stroke 12 mm
Conform to IEC 60947-5-1



Characteristics (p. 125)

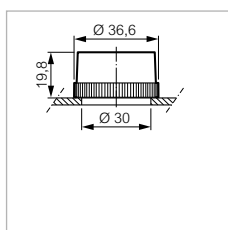
► ADJUSTABLE MECHANICAL PUSH/RESET BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



T12HA04



- Red
- Green
- Black
- Yellow
- White
- Blue

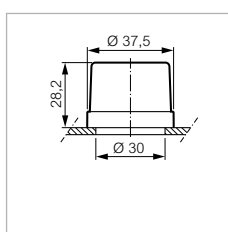
T12HA01
T12HA02
T12HA03
T12HA04
T12HA05
T12HA06

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



T12HG06



Supplied with transparent shroud

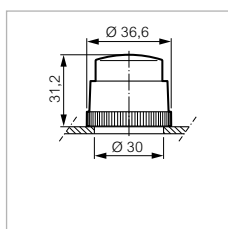
- Red
- Green
- Black
- Yellow
- White
- Blue

T12HG01
T12HG02
T12HG03
T12HG04
T12HG05
T12HG06

SPRING RETURN - PROJECTING



T12HB05



- Red
- Green
- Black
- Yellow
- White
- Blue

T12HB01
T12HB02
T12HB03
T12HB04
T12HB05
T12HB06

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 52)

With locking ring

Plastic chrome bezel- Black bezel on request (form p. 123)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 52-69)

Conform to IEC 60947-5-1



Characteristics (p. 125)

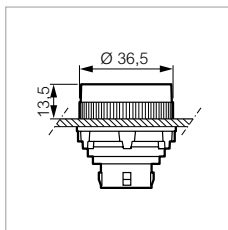
► PUSH-BUTTONS - ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



T16AH20



- Red
- Green
- Colourless
- Yellow
- Opal

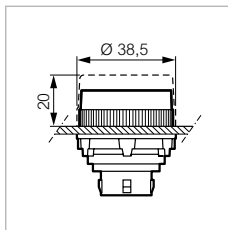
T16AH10
T16AH20
T16AH30
T16AH40
T16AH50

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



T12AP40



Supplied with transparent shroud

- Red
- Green
- Colourless
- Yellow
- Opal

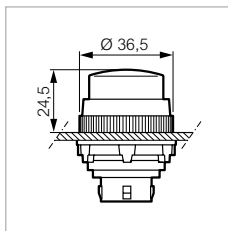
T12AP10
T12AP20
T12AP30
T12AP40
T12AP50

Enables engraving of button plate (form p. 123)

SPRING RETURN - PROJECTING



T16AK10



- Red
- Green
- Colourless
- Yellow
- Opal

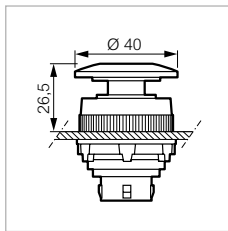
T16AK10
T16AK20
T16AK30
T16AK40
T16AK50

SPRING RETURN - MUSHROOM HEAD Ø 40

Push



T16AM10



- Red
- Green
- Yellow
- Opal

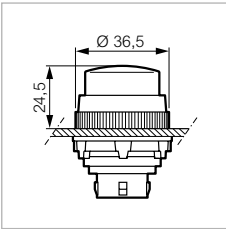
T16AM10
T16AM20
T16AM40
T16AM50

Separate units ø 30: Heads

IP 65
To be combined with a clip and electrical blocks (p. 52)
With locking ring
Plastic chrome bezel- Black bezel on request (form p. 123)
Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 52-69)
Conform to IEC 60947-5-1

 Characteristics (p. 125)

► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

STAY-PUT - PROJECTING	Push-push		Cat. No.
		● Red ● Green ○ Colourless ● Yellow ○ Opal	T16CK10 T16CK20 T16CK30 T16CK40 T16CK50
T16CK50			

Separate units ø 30: Heads

IP 65

To be combined with a clip and electrical blocks (p. 52)

With locking ring

Plastic chrome bezel- Other bezel on request (form p. 123)

Ø 30 blocks use the same blocks and clips (except for the 5 position clip) as Ø 22 mm heads (see p. 52-69)

Conform to IEC 60947-5-1



Characteristics (p. 125)

► SELECTOR SWITCHES - ILLUMINATED

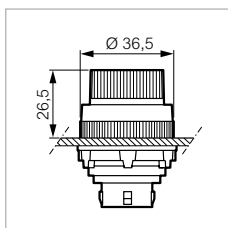
WITH HANDLE

2 positions

Cat. No.



T16KG10



Stay-put positions - 45°

- Red
- Green
- Opal



T16KG10
T16KG20
T16KG50

Stay-put positions - 45°

- Red
- Green
- Opal



T16KJ10
T16KJ20
T16KJ50

Spring return - 45°

- Red
- Green
- Opal



T16KK10
T16KK20
T16KK50

Stay-put positions - 90°

- Red
- Green
- Opal



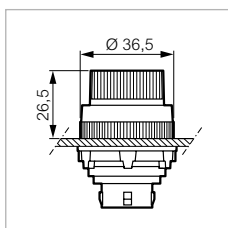
T16KM10
T16KM20
T16KM50

WITH HANDLE

3 positions

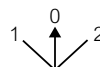


T16ME20



Stay-put positions - 45°

- Red
- Green
- Opal



T16ME10
T16ME20
T16ME50

Spring return from right to 0 - 45°

- Red
- Green
- Opal



T16MG10
T16MG20
T16MG50

Spring return to 0 - 45°

- Red
- Green
- Opal



T16MH10
T16MH20
T16MH50

Stay-put positions - 90°

- Red
- Green
- Opal



T16MJ10
T16MJ20
T16MJ50

Separate units ø 30: Heads

IP 65
To be combined with a clip and electrical blocks (p. 52)
With locking ring
For lens engraving (form p. 123)
Conform to IEC 60947-5-1



Characteristics (p. 125)

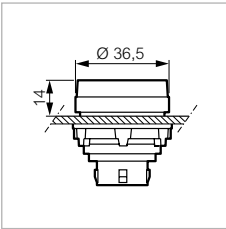
► PILOT LIGHT

LENS WITH BEZEL

Cat. No.



T10SB50V



Smooth lens

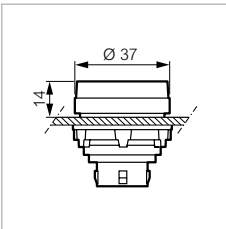
- Red
- Green
- Colourless
- Yellow
- Opal
- Blue

- T10SB10V
- T10SB20V
- T10SB30V
- T10SB40V
- T10SB50V
- T10SB60V

LENS WITH BEZEL AND TRIM



T15SB20V



Smooth lens

- Red
- Green
- Colourless
- Yellow
- Opal
- Blue

- T15SB10V
- T15SB20V
- T15SB30V
- T15SB40V
- T15SB50V
- T15SB60V

Accessories ø 30



Characteristics (p. 125)

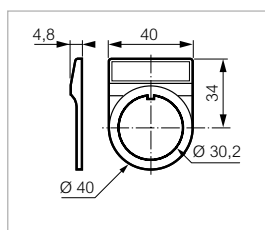
► COMPLETE FRAME

Standard model

Cat. No.



UP39



Round shape
Black frame and legend plate unassembled
2 lines maximum, 18 characters per line

Without engraving

- Red
- Black
- Alu
- Transparent

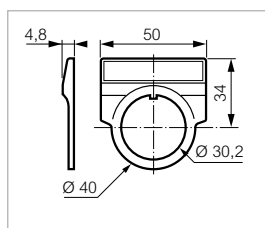
UP31
UP33
UP39
UP37

On demand engraving (p. 123)

Large model



UG39



Round shape
Black frame and legend plate unassembled
2 lines maximum, 24 characters per line

Without engraving

- Red
- Black
- Alu
- Transparent

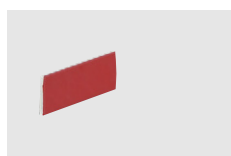
UG31
UG33
UG39
UG37

On demand engraving (p. 123)

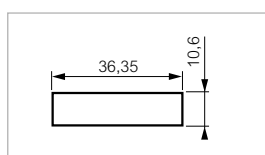
► LEGEND PLATE

Standard model

Cat. No.



IB1



2 lines maximum, 18 characters per line
For frame cat. no.. UP3

Without engraving

- Red
- Black
- Alu
- Transparent

IB1
IB3
IB9
IB7

On demand engraving (p. 123)

Cardboard legend for transparent legend plate
Sheet of 20 pieces, to be cut out

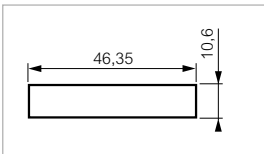
I2B

Accessories ø 30

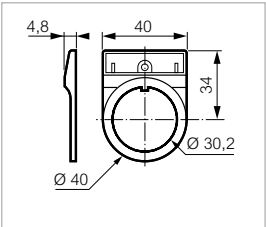
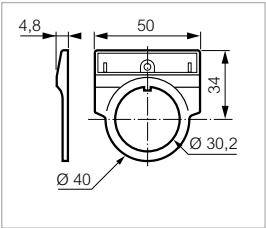


Characteristics (p. 125)

▶ LEGEND PLATE (CONTINUED)

Large model		Cat. No.	
		2 lines maximum, 24 characters per line For frame cat. no.. UG3 Without engraving ● Red ● Black ● Alu ○ Transparent On demand engraving (p. 123) Cardboard legend for transparent legend plate Sheet of 20 pieces, to be cut out	IC1 IC3 IC9 IC7 I2C

▶ FRAMES

Standard model		Cat. No.
		● Black UP3
Large model		Cat. No.
		● Black UG3

Accessories ø 30



Characteristics (p. 125)

► BUTTON PLATES

FOR ILLUMINATED FLUSH BUTTONS

Cat. No.



UE02

2 lines maximum, 10 characters per line
To be inserted under the button

Without engraving

○ Transparent

UE02

On demand engraving (p. 123)

Symbol code to be added at the end of the catalogue number

○ Transparent (black engraving)

UE02 □□□□

Other colours (form p. 123)

FOR PILOT LIGHTS



UE10

2 lines maximum, 12 characters per line
To be inserted under the lens

Without engraving

○ Transparent

UE10

On demand engraving (p. 123)

Symbol code to be added at the end of the catalogue number

○ Transparent (black engraving)

UE10 □□□□

► SHROUDS IP 67

FOR ADJUSTABLE MECHANICAL BUTTONS

Cat. No.



UA0219

○ Transparent

UA0219

FOR FLUSH BUTTONS



UA0228

○ Transparent

UA0228

Accessories ø 30


[Characteristics \(p. 125\)](#)

► BEZELS

ROUND

Cat. No.



UA0011

Height 13 mm
Possibility of sticking the bezel on the button

Brilliant chrome plastic	UA0011
Black plastic	UA0012
Grey plastic	UA0013
Matt chrome plastic bezel	UA0016
Brilliant chrome brass	UA0014

For adjustable mechanical button



UA0112

Height 20 mm

Brilliant chrome plastic	UA0111
Black plastic	UA0112
Grey plastic	UA0113
Brilliant chrome brass	UA0114

GUARD

For flush push-buttons



UA0202

Height 20 mm

Brilliant chrome brass	UA0202
------------------------	--------

Accessories ø 30



Characteristics (p. 125)

► MISCELLANEOUS

FIXING TOOL

Cat. No.



Fixing tool ø 30

WA0210

WA0210

BLANKING PLUG



● Grey

UA0215

UA0215

ANTI-ROTATION RING



Anti-rotation ring

UA0209

UA0209

Request form for specific control and signalling units ø 30

► HEAD (fill in one form for each type of product)

Type:

-  ☐ Spring return flush
-  ☐ Spring return projecting
-  ☐ Mushroom head spring return
-  ☐ Push-push stay-put
-  ☐ Mushroom head push-pull stay-put
-  ☐ Mushroom head push-turn stay-put
-  ☐ Mushroom head With key
-  ☐ Selector switch handle
-  ☐ Selector switch with long handle
-  ☐ Selector switch with key
- ☐ 455 E
- ☐ 1424 A
- ☐ Other
-  ☐ Double touch
- ☐ Mechanical button
- ☐ Flush
- ☐ Projecting
-  ☐ Pilot light

Options:

- ☐ Illuminated button
- ☐ IP 67 shroud
- ☐ Guard for buttons

Size (mm):

- Mushroom head ☐ Ø 40
- ☐ Ø 70

Colour :

- ☐ Colourless ☐ Green
- ☐ Black ☐ Red
- ☐ Opal ☐ Blue
- ☐ Yellow

Bezel:

- ☐ black
- ☐ grey

- ☐ matt chromed
- ☐ brilliant chromed
- ☐ chromed brass

► ENGRAVINGS

Use the grid below

- ☐ on head
- ☐ standard text or symbol
- ☐ other text (2 x 10 characters)
- ☐ on legend plate :
- ☐ standard (2 x 18 characters)
- ☐ large model (2 x 24 characters)

Ground colour:

- ☐ white
- ☐ alu
- ☐ black

► BLOCKS AND CLIPS

Block:

- ① NO
- ② NC
- ③ NO/NC
- ④ Transformer
- ⑤ Filter
- ⑥ Jonction
- ⑦ Empty
- ⑧ Lamp-test
- ⑨ LED

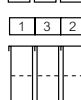
- Voltage: ☐ 24 V
- ☐ 130 V
- ☐ 230 V

- Colour: ☐ white
- ☐ yellow
- ☐ red
- ☐ green
- ☐ blue

Connection:

- ☐ Screw
- ☐ Faston
- ☐ Plug-in
- ☐ For PCB

Clips :

- ☐ 1 position 
- ☐ 3 positions 
- ☐ 6 positions 

Options:

- ☐ Head, block and clip assembled

YOUR DETAILS

Company:

Name and surname:

Address:

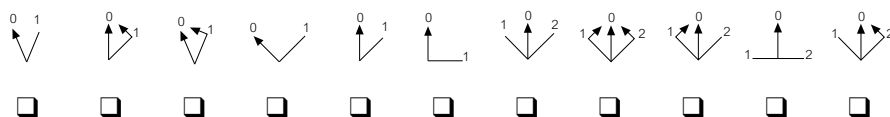
E-mail:

Tel.:

Fax:

COMMENTS

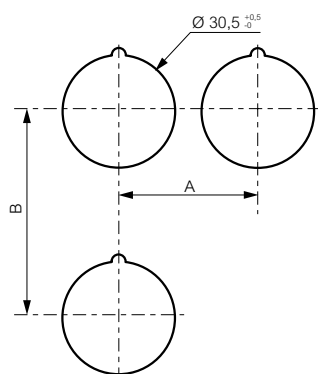
► SELECTOR SWITCHES SWITCHING ANGLE

Key free in position: ☐ 0 ☐ 1 ☐ 2

ENGRAVING

Panel cut-out $\varnothing 30$

DRILLING

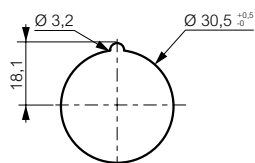


For heads equipped with electrical blocks with screw terminals

Minimum interval (mm)

A	> 40	For mushroom head $\varnothing 40$
	> 50	For selector switch with Long handle
	> 70	For mushroom head $\varnothing 70$
B	> 50	For double touch
	> 50	For legend plates
	> 70	For mushroom head $\varnothing 70$

DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



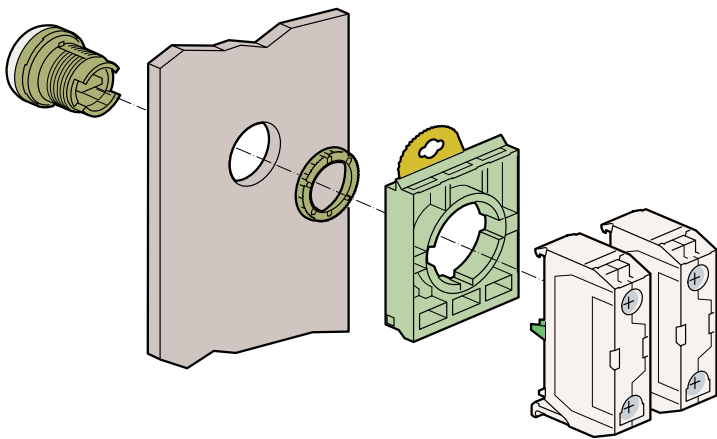
Technical characteristics ø 30

► GENERAL

Characteristics	Data	Standards
► Storage temperature for illuminated or non illuminated button	- 40°C to + 70°C	
► Operating temperature	Non illuminated buttons: - 25°C to + 70°C Illuminated buttons: - 25°C to + 60°C	
► Degree of protection	IP 65 for standard heads IP 67 for shrouded heads	IEC 60529
► Mechanical life	Spring return push button: 3 x 10 ⁶ operating cycles	IEC 60947-5-1

The blocks used for diameter 30 are the same as for diameter 22.
Their characteristics are described on p. 95

► MOUNTING THE BLOCKS

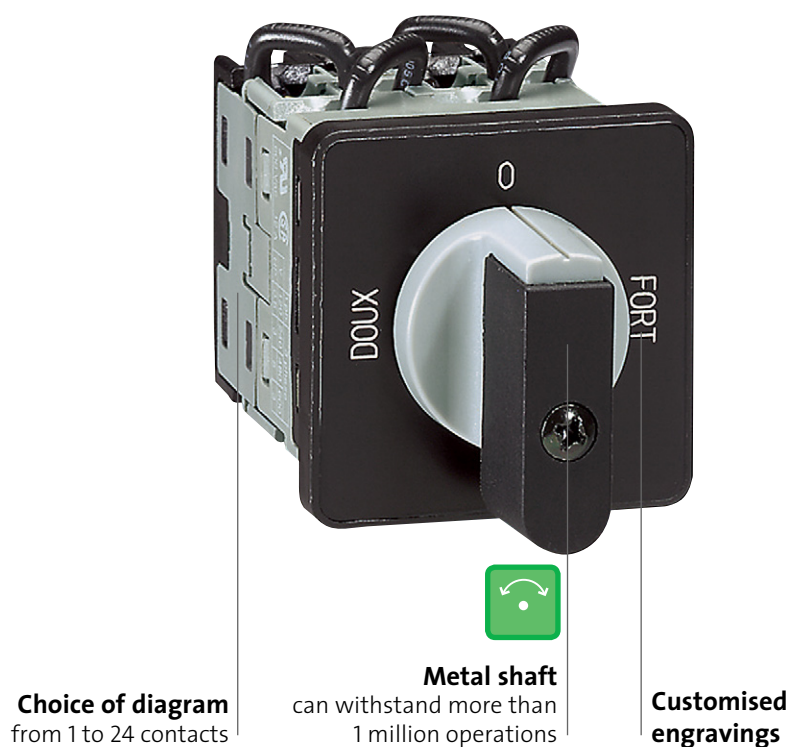


Protection, flexibility and safety

Cam switches from 10 to 200 A

► STANDARD SOLUTIONS P. 134 - 212

The expertise of a specialist like Baco allows us to offer made-to-measure solutions, even the most specific.



► ADVANTAGES

- Conform to European and international standards: IEC, UL and CSA
- A metal shaft capable of withstanding more than 1 million operations
- More than 50 000 different diagrams available
- Many specific functions and special markings

► MADE-TO-MEASURE SOLUTIONS

How do I order a switch in 5 steps?

Example: A change-over switch without off

- 1 DETERMINE THE RATING according to the electrical specifications** **p. 215**
 Voltage, performance, etc (p. 213).
EG: for switching of resistive loads 63A
 - RATING: PR 63
 - PRICE LIST CODE: I
- 2 SELECT A DIAGRAM AND ITS SWITCHING ANGLE** **p. 216**
EG: for a 2 way switch without off, with 1 pole
EG: for a switching angle of 90°
 - CAT. NO. 2251
 - PRICE LIST CODE: A02Z
 - CAT. NO. A4
 - PRICE LIST CODE: -
- 3 DETERMINE THE MOUNTING METHOD** **p. 249**
 front or rear mounting, with screws or on DIN rail.
EG: for rear mounting 68 mm interval
 - CAT. NO. S
 - PRICE LIST CODE: Y508
- 4 DEFINE THE PRESENTATION** **p. 263**
 Plate, frame and handle, padlockable, with clutch drive, in enclosure, with key locking, coupling in parallel or in series, dual-voltage device, etc
EG: for a □ 72 frame with a medium handle
 - CAT. NO. Q72 MN
 - PRICE LIST CODE: Q72 MN
- 5 SELECT YOUR OPTIONS** **p. 278**
 Handles and long handles, legends, legend plate, terminal cover, etc
EG: for a 72 "pump 1 pump 2" engraving
 - engraving
"pump 1 -
pump 2"
 - PRICE LIST CODE: Y000

Example of grid to be used for your order

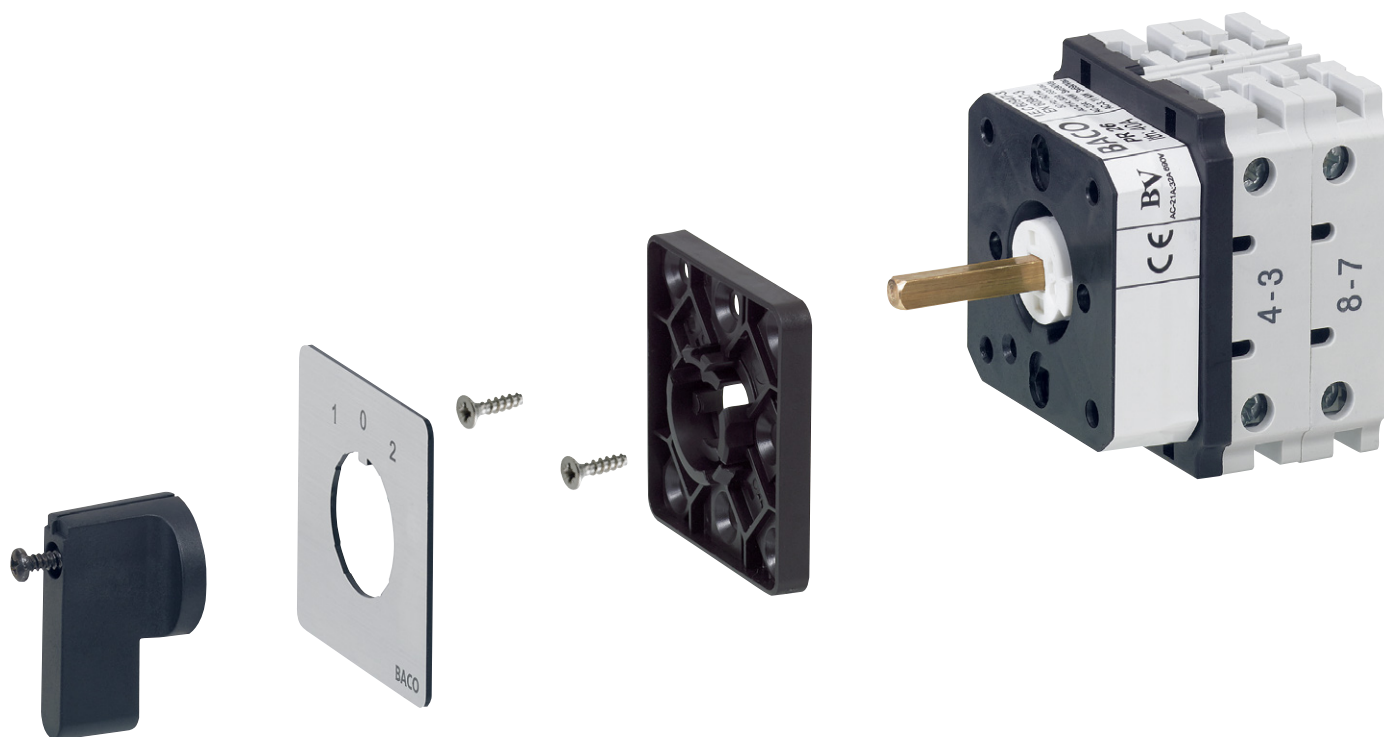
	Rating	Diagram	Mounting	Presentation	Option 1	Option 2...
DESIGNATION	PR 63	2251 A4	S	Q72 MN	"pump 1 - pump 2"	-
PRICE LIST CODE	I	A02Z -	Y508	Q72 MN	Y000	-
Observations	PR 63 AC21 = 63 A	2 way without off, 1 pole 90° switching angle	Rear mounting	□ 72 plate and frame presenta- tion Medium handle	Standard engraving	

PR ONE cam switch Series

A selection of standard switching programmes and mounting forms for practical reliable solutions to be achieved quickly

► DESIGN AND FUNCTIONS

- 45° switching angle
- Forced opened contacts
- Finger protected (degree of protection up to IP 20)
- Short-circuit rated
- Fulfills the load of break requirements up to 690 V
- Terminal screws in open position
- Switching capacity Ie (A): 16 A, 25 A and 32 A in AC21
- Manually operated control switches
- Front presentation: aluminium plate with black handle with index
- Laser marking on escutcheon
- Front degree of protection IP 40
- 2-screw panel mount - interval 30 mm



► APPLICATIONS

- ON-OFF switches
- Changeover switches
- Multi-step switches
- Instrument switches

Standard circuits diagrams from 16 A, 25 A
up to 32 A

The expertise of a specialist to offer
ready-solutions



► ELECTRICAL CHARACTERISTICS

► Thermal current, I _{th} (A)		20	32	40
► Rated operating current in AC-21A, I _e (A)		16	25	32
► Rated operating current in AC-15A, I _e (A)		6	10	12
► Motor performance in AC-3 (kW)	3 x 230 V	3	4	5,5
	3 x 400 V	4	7,5	11
► Motor performance in AC-23 (kW)	3 x 230 V	4	7,5	11
	3 x 400 V	7,5	11	11
► Rated insulation voltage, U _i (V)		690	690	690
► Rated short time withstand current, I _{cw} (A) for 1 sec		300	420	800
► Maximum wire size (mm ² rigid / flexible)		4 / 2,5	6 / 4	6 / 6
► Mechanical durability (nb of operations)		800 000 (max. rate 150 per hour)		
► Operating temperature limits		-20°C to 70°C		
► Degree of protection	Front	IP 40 IP 2X		
	Rear			

► FINGER PROTECTED

Degree of protection up to IP 20

► CONFORMING TO STANDARDS

IEC EN 60947-1

IEC EN 60947-3

UL 508

UL-CSA approved

PR ONE cam switches



Dimensions (p. 133)

► ON-OFF SWITCHES

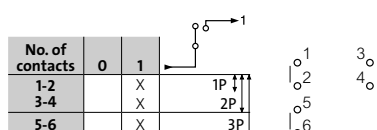
From 1 to 3 poles, each pole being a path for the current, the circuit being open at starting position 0, and closed at position 1

2-screw panel mount - interval: 30 mm

Cat. No.



227603



16 A

1P-1 contact
2P-2 contacts
3P-3 contacts



227600
227601
227602

25 A

1P-1 contact
2P-2 contact
3P-3 contacts



227603
227604
227605

32 A

1P-1 contact
3P-3 contacts



227606
227608

► CHANGE-OVER SWITCHES WITH «OFF» POSITION

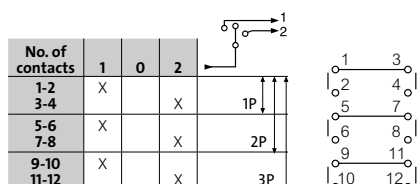
From 1 to 3 poles, each pole having two current paths, open at starting position 0, one path closes on position 1, the other on position 2

2-screw panel mount - interval: 30 mm

Cat. No.



227609



16 A

1P-2 contacts
2P-4 contacts
3P-6 contacts



227609
227610
227611

25 A

1P-2 contacts
2P-4 contacts
3P-6 contacts



227612
227613
227614

32 A

1P-2 contacts
3P-4 contacts
3P-6 contacts



227615
227616
227617

PR ONE cam switches



Dimensions (p. 133)

SELECTOR SWITCHES

2 to 5-way switches, each pole being respectively from 2 to 5 paths for the current, the starting position is at 0

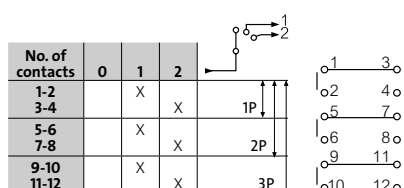
2-WAY SWITCHES WITH OFF

2-screw panel mount - interval: 30 mm

Cat. No.



227630



16 A

1P-2 contacts

2P-4 contacts

3P-6 contacts



227618

227619

227620

25 A

1P-2 contacts

2P-4 contacts

3P-6 contacts



227624

227625

227626

32 A

1P-2 contacts

3P-4 contacts

3P-6 contacts



227630

227631

227632

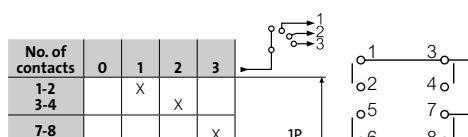
3-WAY SWITCHES WITH OFF

2-screw panel mount - interval: 30 mm

Cat. No.



227621



16 A

1P-3 contacts



227621

25 A

1P-3 contacts

227627

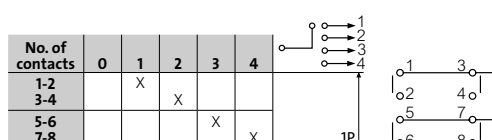
4-WAY SWITCHES WITH OFF

2-screw panel mount - interval: 30 mm

Cat. No.



227622



16 A

1P-4 contacts



227622

PR ONE cam switches



Dimensions (p. 133)

► SELECTOR SWITCHES (CONTINUED)

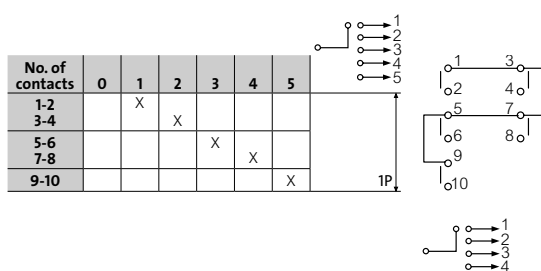
5-WAY SWITCHES WITH OFF

2-screw panel mount - interval: 30 mm

Cat. No.



227623



16 A
1P-5 contacts

25 A
1P-5 contacts



227623

227629

► INSTRUMENT SWITCHES

For ammeters wired in 3 CT's connected into the corresponding circuits. The CT's can be mounted in series with common point.
For voltmeters wired into 3-phase networks with neutral.

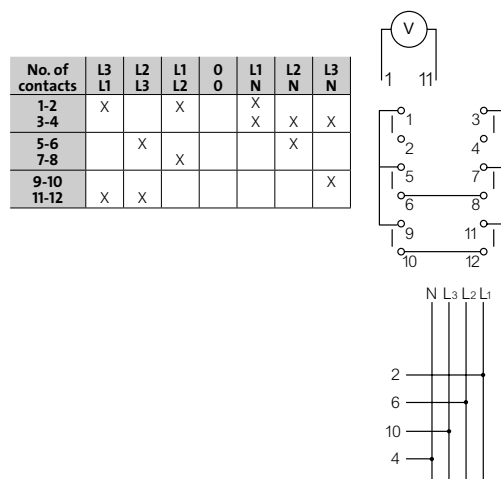
VOLTMETER SWITCH, WITH NEUTRAL

2-screw panel mount - interval: 30 mm

Cat. No.



227636



16 A
6 contacts



227636

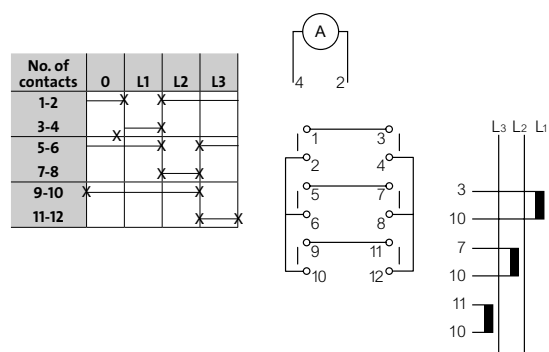
AMMETER SWITCH, 3 CTS WITH COMMON POINT

2-screw panel mount - interval: 30 mm

Cat. No.



227637



16 A
6 contacts

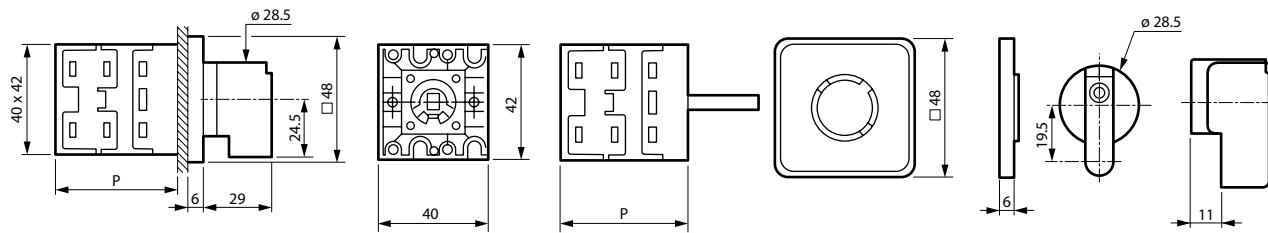


227637

PR ONE cam switches

► DIMENSIONS

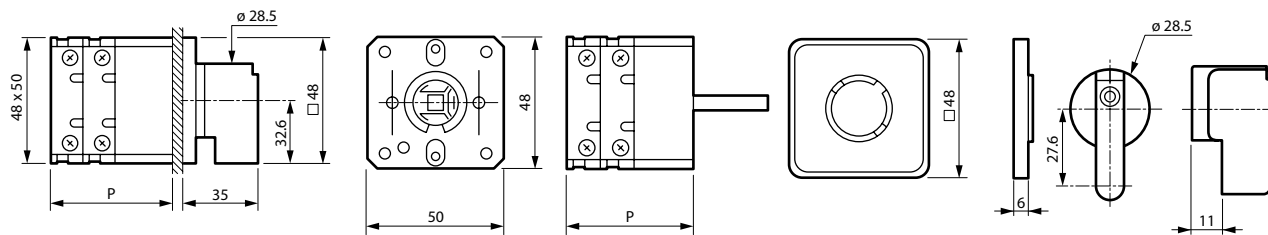
PR One 16 A (ie)



Dimensions in mm

*P : 36 (1-2 contacts)
46 (3-4 contacts)
56 (5-6 contacts)

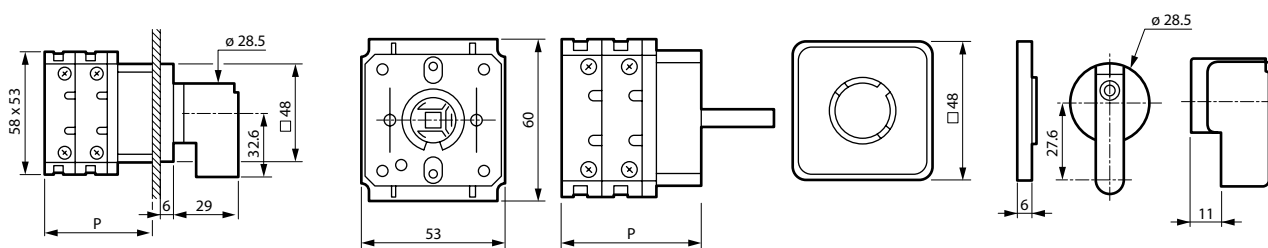
PR One 25 A (ie)



Dimensions in mm

*P : 33 (1-2 contacts)
45 (3-4 contacts)
57 (5-6 contacts)

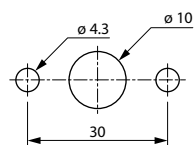
PR One 32 A (ie)



Dimensions in mm

*P : 36 (1-2 contacts)
51 (3-4 contacts)
66 (5-6 contacts)

► PANEL CUT-OUT



Cam switches



Characteristics (p. 213)

ON-OFF SWITCH

No. of contacts	0	1			
1-2	X		1P	1	3
3-4	X		2P	2	4
5-6	X		3P	5	7
7-8	X		4P	6	8

MINI CAM SWITCH - 10 A (AC21)

Ø 16 and 22 single hole front mounting

Cat. No.



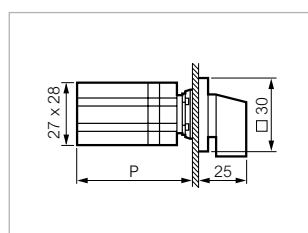
223501

□ 30 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



223501
223502
223503
223504



Dimensions in mm
*P: 50 (1-2 CONTACTS)
62 (3-4 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NB02AQ1

Designation

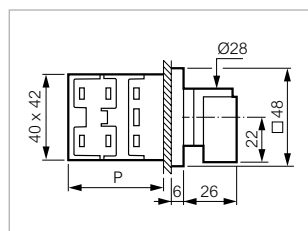
Grey/black small handle
□ 48 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



PR12 1101 A4 E Q48PN
PR12 1102 A4 E Q48PN
PR12 1103 A4 E Q48PN
PR12 1104 A4 E Q48PN

NB01AQ1
NB02AQ1
NB03AQ1
NB04AQ1



Dimensions in mm
*P: 36 (1-2 CONTACTS)
46 (3-4 CONTACTS)

1P - 1 contact
2P - 2 contacts
3P - 3 contacts



PR12 1101 A8 E Q48PN
PR12 1102 A8 E Q48PN
PR12 1103 A8 E Q48PN

NB01EQ1
NB02EQ1
NB03EQ1

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

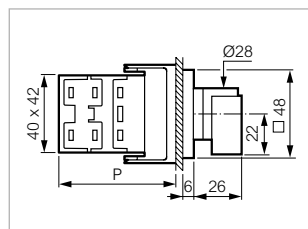


Characteristics (p. 213)

► ON-OFF SWITCH (CONTINUED)

PR 12 - 16 A (AC21)
Ø 22 single hole front mounting
Cat. No.


NB03EX80



Dimensions in mm
 *P: 51 (1-2 CONTACTS)
 61 (3-4 CONTACTS)

Grey/black small handle
 □ 48 aluminium plate and frame

Designation

1P - 1 contact
 2P - 2 contacts
 3P - 3 contacts
 4P - 4 contacts



PR12 1101 A4 E N48MD50
 PR12 1102 A4 E N48MD50
 PR12 1103 A4 E N48MD50
 PR12 1104 A4 E N48MD50

NB01AX80
NB02AX80
NB03AX80
NB04AX80

1P - 1 contact
 2P - 2 contacts
 3P - 3 contacts

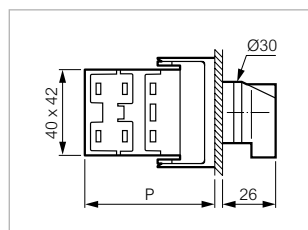


PR12 1101 A8 E N48MD50
 PR12 1102 A8 E N48MD50
 PR12 1103 A8 E N48MD50

NB01EX80
NB02EX80
NB03EX80

PR 12 - 16 A (AC21)
Ø 22 single hole front mounting
Cat. No.


NB03AC113



Dimensions in mm
 *P: 51 (1-2 CONTACTS)
 61 (3-4 CONTACTS)

Selector switch style handle
 Matt chrome plastic bezel

Designation

1P - 1 contact
 2P - 2 contacts
 3P - 3 contacts
 4P - 4 contacts



PR12 1101 A4 E C21RA03
 PR12 1102 A4 E C21RA03
 PR12 1103 A4 E C21RA03
 PR12 1104 A4 E C21RA03

NB01AC113
NB02AC113
NB03AC113
NB04AC113

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► ON-OFF SWITCH (CONTINUED)

PR 12 - 16 A (AC21)

Enclosure

Cat. No.



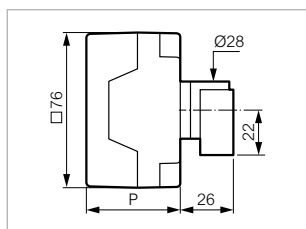
NB02AGQ

 Grey/black small handle
 □ 48 aluminium plate

 1P - 1 contact
 2P - 2 contacts
 3P - 3 contacts
 4P - 4 contacts


Designation

 PR12 1101 A4 BPRQ48PN
 PR12 1102 A4 BPRQ48PN
 PR12 1103 A4 BPRQ48PN
 PR12 1104 A4 BPRQ48PN

 NB01AGQ
NB02AGQ
NB03AHQ
 NB04AHQ


Dimensions in mm

 *P: 46 (1-2 CONTACTS)
 58 (3-4 CONTACTS)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



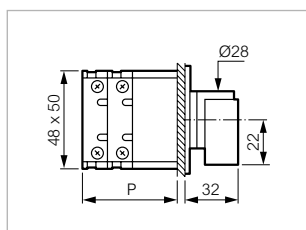
SB04AQ1

 Grey/black small handle
 □ 48 aluminium plate and frame

 1P - 1 contact
 2P - 2 contacts
 3P - 3 contacts
 4P - 4 contacts


Designation

 PR17 1101 A4 E Q48PN
 PR17 1102 A4 E Q48PN
 PR17 1103 A4 E Q48PN
 PR17 1104 A4 E Q48PN

 SB01AQ1
SB02AQ1
SB03AQ1
SB04AQ1


Dimensions in mm

 *P: 33 (1-2 CONTACTS)
 45 (3-4 CONTACTS)

 3P - 3 contacts
 4P - 4 contacts

 PR17 1103 A8 E Q48PN
 PR17 1104 A8 E Q48PN

SB03EQ1
SB04EQ1

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► ON-OFF SWITCH (CONTINUED)

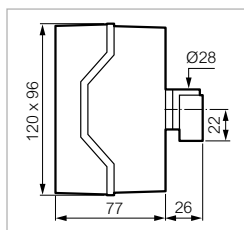
PR 17 -20 A (AC21)

Enclosure

Cat. No.



SB02AXQ



Black small handle
□ 64 aluminium plate

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR17 1101 A4 BCQ3
PR17 1102 A4 BCQ3
PR17 1103 A4 BCQ3
PR17 1104 A4 BCQ3

SB01AXQ
SB02AXQ
SB03AXQ
SB04AXQ

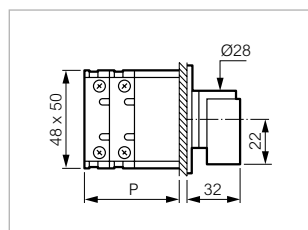
PR 21 -25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TB01AQ1



Dimensions in mm
*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)

Grey/black small handle
□ 48 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



3P - 3 contacts



Designation

PR21 1101 A4 E Q48PN
PR21 1102 A4 E Q48PN
PR21 1103 A4 E Q48PN
PR21 1104 A4 E Q48PN

TB01AQ1
TB02AQ1
TB03AQ1
TB04AQ1

PR21 1103 A8 E Q48PN

TB03EQ1

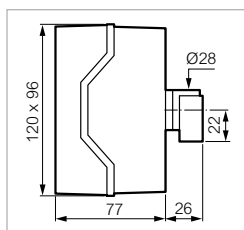
PR 21 -25 A (AC21)

Enclosure

Cat. No.



TB01AXQ



Black small handle
□ 64 aluminium plate

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR21 1101 A4 BCQ3
PR21 1102 A4 BQ3
PR21 1103 A4 BCQ3
PR21 1104 A4 BCQ3

TB01AXQ
TB02AXQ
TB03AXQ
TB04AXQ

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► ON-OFF SWITCH (CONTINUED)

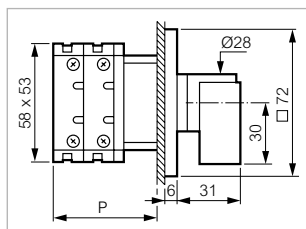
PR 26 -32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZB04AQ7



Dimensions in mm
 *P: 36 (1-2 CONTACTS)
 51 (3-4 CONTACTS)

Grey/black medium handle
 □ 72 aluminium plate and frame

Designation

1P - 1 contact
 2P - 2 contacts
 3P - 3 contacts
 4P - 4 contacts



PR26 1101 A4 E Q72MN
 PR26 1102 A4 E Q72MN
 PR26 1103 A4 E Q72MN
 PR26 1104 A4 E Q72MN

ZB01AQ7
ZB02AQ7
ZB03AQ7
ZB04AQ7

3P - 3 contacts



PR26 1103 A8 E Q72MN

ZB03EQ7

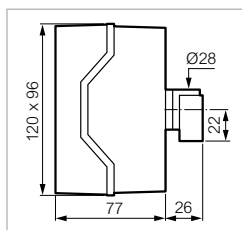
PR 26 -32 A (AC21)

Enclosure

Cat. No.



ZB02AXQ



Black small handle
 □ 72 aluminium plate

Designation

1P - 1 contact
 2P - 2 contacts
 3P - 3 contacts
 4P - 4 contacts



PR26 1101 A4 BCQ3
 PR26 1102 A4 BCQ3
 PR26 1103 A4 BCQ3
 PR26 1104 A4 BCQ3

ZB01AXQ
ZB02AXQ
ZB03AXQ
ZB04AXQ

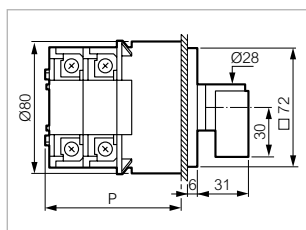
PR 40 -50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HB03AQ7



Dimensions in mm
 *P: 60 (1-2 CONTACTS)
 80 (3-4 CONTACTS)

Grey/black medium handle
 □ 72 aluminium plate and frame

Designation

1P - 1 contact
 2P - 2 contacts
 3P - 3 contacts
 4P - 4 contacts



PR40 1101 A4 E Q72MN
 PR40 1102 A4 E Q72MN
 PR40 1103 A4 E Q72MN
 PR40 1104 A4 E Q72MN

HB01AQ7
HB02AQ7
HB03AQ7
HB04AQ7

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► ON-OFF SWITCH (CONTINUED)

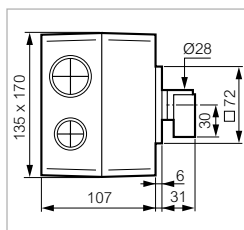
PR 40 -50 A (AC21)

Enclosure

Cat. No.



HB02AAQ



Grey/black medium handle
□ 72 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR40 1101 A4 BCFQ72MN
PR40 1102 A4 BCFQ72MN
PR40 1103 A4 BCFQ72MN
PR40 1104 A4 BCFQ72MN

HB01AAQ
HB02AAQ
HB03ABQ
HB04ABQ

PR 63 -63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IB03AQ7

Grey/black medium handle
□ 72 aluminium plate and frame

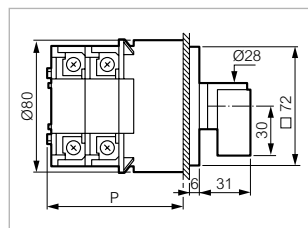
1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR63 1101 A4 E Q72MN
PR63 1102 A4 E Q72MN
PR63 1103 A4 E Q72MN
PR63 1104 A4 E Q72MN

IB01AQ7
IB02AQ7
IB03AQ7
IB04AQ7



Dimensions in mm
*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)

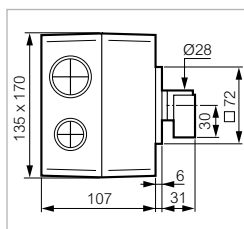
PR 63 -63 A (AC21)

Enclosure

Cat. No.



IB02AAQ



Grey/black medium handle
□ 72 aluminium plate and frame

1P - 1 contact
2P - 2 contacts
3P - 3 contacts
4P - 4 contacts



Designation

PR63 1101 A4 BCF140Q72MN
PR63 1102 A4 BCF140Q72MN
PR63 1103 A4 BCF240Q72MN
PR63 1104 A4 BCF240Q72MN

IB01AAQ
IB02AAQ
IB03ABQ
IB04ABQ

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



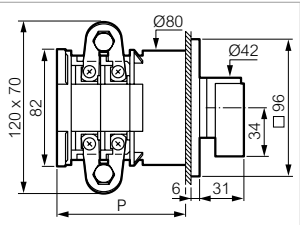
Characteristics (p. 213)

ON-OFF SWITCH (CONTINUED)

PR 125 -160 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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LB02AQ9



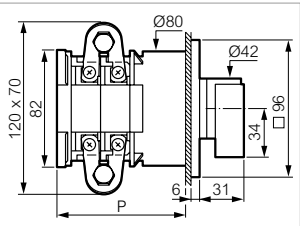
Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)

Designation			
Grey/black large handle			
□ 96 aluminium plate and frame			
1P - 1 contact		PR125 1101 A4 E Q96GN	LB01AQ9
2P - 2 contacts		PR125 1102 A4 E Q96GN	LB02AQ9
3P - 3 contacts		PR125 1103 A4 E Q96GN	LB03AQ9
4P - 4 contacts		PR125 1104 A4 E Q96GN	LB04AQ9

PR 160 -200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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MB02AQ9



Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)

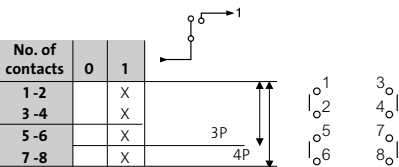
Designation			
Grey/black large handle			
□ 96 aluminium plate and frame			
1P - 1 contact		PR160 1101 A4 E Q96GN	MB01AQ9
2P - 2 contacts		PR160 1102 A4 E Q96GN	MB02AQ9
3P - 3 contacts		PR160 1103 A4 E Q96GN	MB03AQ9
4P - 4 contacts		PR160 1104 A4 E Q96GN	MB04AQ9

*P = Depth

Cam switches

 Characteristics (p. 213)

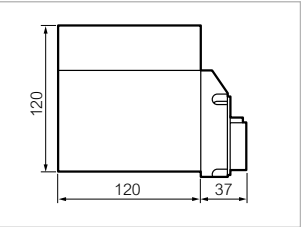
► MAIN SWITCH



PR 125 - 160 A (AC21)2-screw panel mount - interval: 50 mmCat. No.



LS3EV733

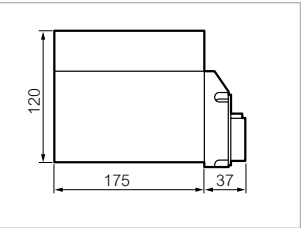


Designation			
Red padlockable handle for up to 4 padlocks □ 72 yellow frame			
With engraving MAIN SWITCH			
3P+ $\frac{1}{1}$ - 3 contacts		PR125 1103GN E J723MND61	LS3EV733
3P+N - 4 contacts		PR125 1104GN E J723MND61	LS4EV733
Without engraving			
3P+ $\frac{1}{1}$ - 3 contacts		PR125 1103GN E J72MND61	LS3EV72
3P+N - 4 contacts		PR125 1104GN E J72MND61	LS4EV72

PR 125 - 160 A (AC21)2-screw panel mount - interval: 50 mmCat. No.



LG3EV733



Designation			
Grey padlockable handle for up to 4 padlocks □ 72 grey frame			
With engraving MAIN SWITCH			
3P+ $\frac{1}{1}$ - 3 contacts		PR125 1103GN E V723MND	LG3EV733
3P+N - 4 contacts		PR125 1104GN E V723MND	LG4EV733
Without engraving			
3P+ $\frac{1}{1}$ - 3 contacts		PR125 1103GN E V72MND	LG3EV72
3P+N - 4 contacts		PR125 1104GN E V72MND	LG4EV72

Cam switches



Characteristics (p. 213)

► MAIN SWITCH (CONTINUED)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LS3EV973

Red padlockable handle
for up to 4 padlocks
□ 96 yellow frame

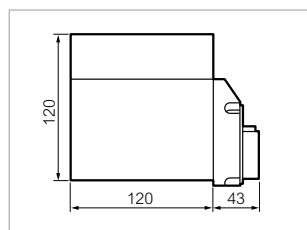
**With engraving
MAIN SWITCH**

3P+ $\frac{\perp}{\perp}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

Designation

PR125 1103GN E J963GND61
PR125 1104GN E J963GND61

LS3EV973
LS4EV973



PR 125 - 160 A (AC21)

Rear mounting with clutch drive and door interlock

Cat. No.



LS3RV733

Red padlockable handle
for up to 4 padlocks
□ 72 yellow frame
Clutch drive and
door interlock

**With engraving
MAIN SWITCH**

3P+ $\frac{\perp}{\perp}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

Designation

PR125 1103GN SV6 J723MND61
PR125 1104GN SV6 J723MND61

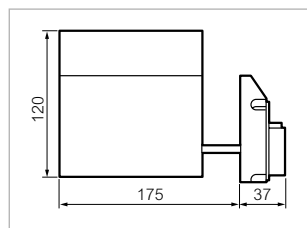
LS3RV733
LS4RV733

Without engraving

3P+ $\frac{\perp}{\perp}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow \\ 1 \end{matrix}$
3P+N - 4 contacts

PR125 1103GN SV6 J72MND61
PR125 1104GN SV6 J72MND61

LS3RV72
LS4RV72

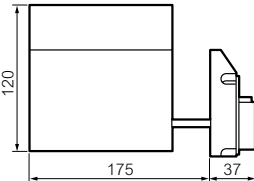


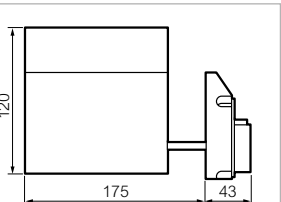
Cam switches

 Characteristics (p. 213)

► MAIN SWITCH (CONTINUED)

PR 125 - 160 A (AC21)	Rear mounting with clutch drive and door interlock	Cat. No.	
 LG3RV733	Grey padlockable handle for up to 4 padlocks □ 72 grey frame With engraving MAIN SWITCH 3P+ $\frac{1}{1}$ - 3 contacts $\begin{smallmatrix} 0 \\ \nearrow \\ 1 \end{smallmatrix}$ 3P+N - 4 contacts Without engraving 3P+ $\frac{1}{1}$ - 3 contacts $\begin{smallmatrix} 0 \\ \nearrow \\ 1 \end{smallmatrix}$ 3P+N - 4 contacts	Designation PR125 1103GN SV6 V723MND PR125 1104GN SV6 V723MND	LG3RV733 LG4RV733
		PR125 1103GN SV6 V72MND PR125 1104GN SV6 V72MND	



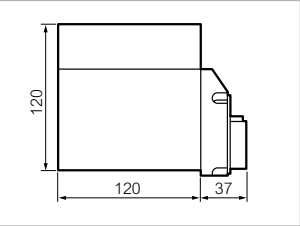
PR 125 - 160 A (AC21)	Rear mounting with clutch drive and door interlock		Cat. No.
 LS3RV973	Red padlockable handle for up to 4 padlocks □ 96 yellow frame With engraving MAIN SWITCH 3P+ $\frac{1}{1}$ - 3 contacts 3P+N - 4 contacts 	Designation	
		PR125 1103GN SV6 J963GND61 LS3RV973	
		PR125 1104GN SV6 J963GND61 LS4RV973	
			

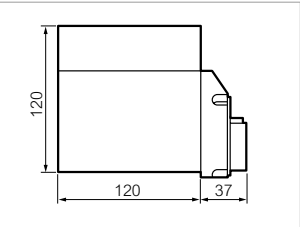
Cam switches



Characteristics (p. 213)

MAIN SWITCH (CONTINUED)

PR 160 -200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.	
 MS3EV733 	Red padlockable handle for up to 4 padlocks □ 72 yellow frame With engraving MAIN SWITCH 3P+ $\frac{\perp}{\equiv}$ - 3 contacts  3P+N - 4 contacts Without engraving 3P+ $\frac{\perp}{\equiv}$ - 3 contacts  3P+N - 4 contacts	Designation	
		PR160 1103GN E J723MND61	MS3EV733
		PR160 1104GN E J723MND61	MS4EV733
		PR160 1103GN E J72MND61	MS3EV72
		PR160 1104GN E J72MND61	MS4EV72

PR 160 -200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.	
 MG3EV733 	Grey padlockable handle for up to 4 padlocks □ 72 grey frame With engraving MAIN SWITCH 3P+ $\frac{\perp}{\equiv}$ - 3 contacts  3P+N - 4 contacts Without engraving 3P+ $\frac{\perp}{\equiv}$ - 3 contacts  3P+N - 4 contacts	Designation	
		PR160 1103GN E V723MND	MG3EV733
		PR160 1104GN E V723MND	MG4EV733
		PR160 1103GN E V72MND	MG3EV72
		PR160 1104GN E V72MND	MG4EV72

Cam switches



Characteristics (p. 213)

► MAIN SWITCH (CONTINUED)

PR 160 -200 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



MS4EV973

Red padlockable handle
for up to 4 padlocks
□ 96 yellow frame

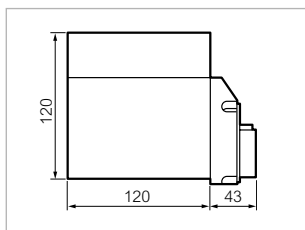
**With engraving
MAIN SWITCH**

3P+ $\frac{1}{2}$ - 3 contacts 0 1
3P+N - 4 contacts

Designation

PR160 1103GN E J963GND61
PR160 1104GN E J963GND61

MS3EV973
MS4EV973



PR 160 -200 A (AC21)

Rear mounting with clutch drive and door interlock

Cat. No.



MS3RV733

Red padlockable handle
for up to 4 padlocks
□ 72 yellow frame
Clutch drive and
door interlock

**With engraving
MAIN SWITCH**

3P+ $\frac{1}{2}$ - 3 contacts 0 1
3P+N - 4 contacts

Designation

PR160 1103GN SV6 J723MND61
PR160 1104GN SV6 J723MND61

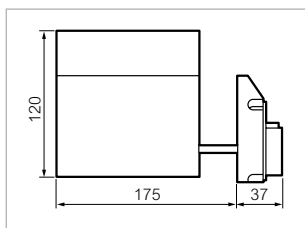
MS3RV733
MS4RV733

Without engraving

3P+ $\frac{1}{2}$ - 3 contacts 0 1
3P+N - 4 contacts

PR160 1103GN SV6 J72MND61
PR160 1104GN SV6 J72MND61

MS3RV72
MS4RV72



Cam switches



Characteristics (p. 213)

► MAIN SWITCH (CONTINUED)

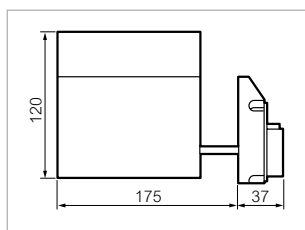
PR 160 -200 A (AC21)

Rear mounting with clutch drive and door interlock

Cat. No.



MG4RV733


 Grey padlockable handle
for up to 4 padlocks

□ 72 grey frame

**With engraving
MAIN SWITCH**

 3P+ $\frac{1}{1}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow 1 \end{matrix}$
 3P+N - 4 contacts

Designation

 PR160 1103GN SV6 V723MND
 PR160 1104GN SV6 V723MND

 MG3RV733
 MG4RV733

Without engraving

 3P+ $\frac{1}{1}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow 1 \end{matrix}$
 3P+N - 4 contacts

 PR160 1103GN SV6 V72MND
 PR160 1104GN SV6 V72MND

 MG3RV72
 MG4RV72

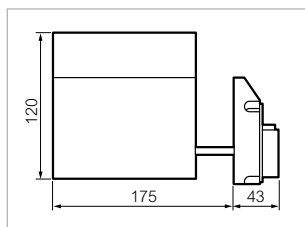
PR 160 -200 A (AC21)

Rear mounting with clutch drive and door interlock

Cat. No.



MS4RV973


 Red padlockable handle
for up to 4 padlocks

□ 96 yellow frame

**With engraving
MAIN SWITCH**

 3P+ $\frac{1}{1}$ - 3 contacts $\begin{matrix} 0 \\ \nearrow 1 \end{matrix}$
 3P+N - 4 contacts

Designation

 PR160 1103GN SV6 V963GND61
 PR160 1104GN SV6 V963GND61

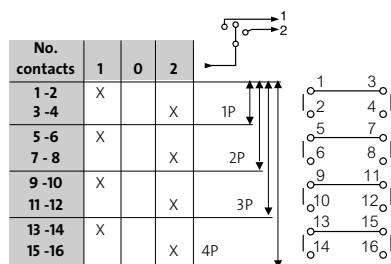
 MS3RV973
 MS4RV973

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

ø 16 and ø 22 mm single hole front mounting

Cat. No.



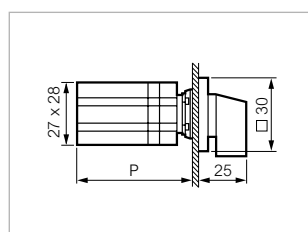
223505

□ 30 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



223505
223506
223507
223508



Dimensions in mm

*P: 50 (1-2 CONTACTS)
62 (3-4 CONTACTS)
74 (5-6 CONTACTS)
96 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NC02GQ1

Designation

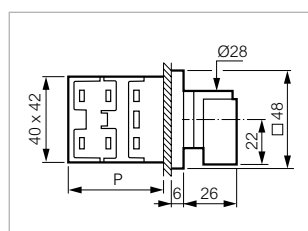
Grey/black small handle
□ 48 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2201 C8 E Q48PN
PR12 2202 C8 E Q48PN
PR12 2203 C8 E Q48PN
PR12 2204 C8 E Q48PN

NC01GQ1
NC02GQ1
NC03GQ1
NC04GQ1



Dimensions in mm

*P: 36 (1-2 CONTACTS)
46 (3-4 CONTACTS)
56 (5-6 CONTACTS)
66 (7-8 CONTACTS)

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts



PR12 2201 C4 E Q48PN
PR12 2202 C4 E Q48PN
PR12 2203 C4 E Q48PN

NC01CQ1
NC02CQ1
NC03CQ1

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NC02GX80

Grey/black small handle
□ 48 aluminium plate and frame

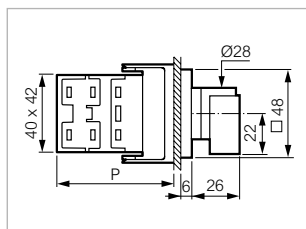
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2201 C8 E N48MD50
PR12 2202 C8 E N48MD50
PR12 2203 C8 E N48MD50
PR12 2204 C8 E N48MD50

NC01GX80
NC02GX80
NC03GX80
NC04GX80



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NC02GC113

Black handle
Matt chrome plastic bezel

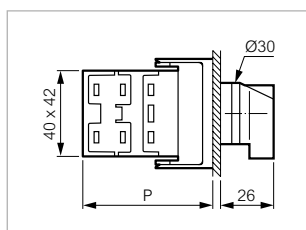
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2201 C8 E C21RA03
PR12 2202 C8 E C21RA03
PR12 2203 C8 E C21RA03
PR12 2204 C8 E C21RA03

NC01GC113
NC02GC113
NC03GC113
NC04GC113



Dimensions in mm

*P: 51 (1-2 CONTACTS)
61 (3-4 CONTACTS)
71 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)
Enclosure
Cat. No.

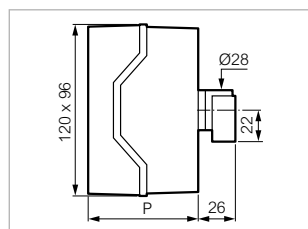

NC01GXQ

 Black small handle
☐ 64 aluminium plate

 1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts

Designation

 PR12 2201 C8 BCQ3
 PR12 2202 C8 BCQ3
 PR12 2203 C8 BCQ3
 PR12 2204 C8 BCQ3

 NC01GXQ
 NC02GXQ
 NC03GXQ
 NC04GXQ

Dimensions in mm
 *P: 77 (1 TO 6 CONTACTS)
 101 (7-8 CONTACTS)

PR 17 - 20 A (AC21)
2-screw panel mount – interval: 30 mm
Cat. No.

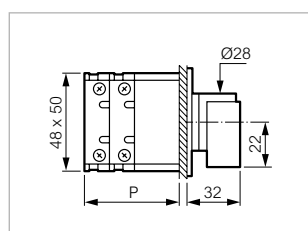

SC04GQ1

 Grey/black small handle
☐ 48 aluminium plate and frame

 1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts

Designation

 PR17 2201 C8 E Q48PN
 PR17 2202 C8 E Q48PN
 PR17 2203 C8 E Q48PN
 PR17 2204 C8 E Q48PN

SC01GQ1
SC02GQ1
SC03GQ1
SC04GQ1

Dimensions in mm
 *P: 33 (1-2 CONTACTS)
 45 (3-4 CONTACTS)
 57 (5-6 CONTACTS)
 69 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21)

Enclosure

Cat. No.



SC01GXQ

Black small handle
□ 64 aluminium plate

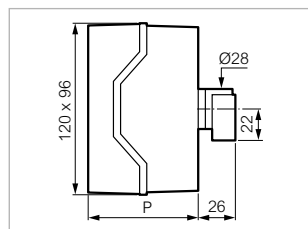
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR17 2201 C8 BCQ3
PR17 2202 C8 BCQ3
PR17 2203 C8 BCQ3
PR17 2201 C8 BCQ3

SC01GXQ
SC02GXQ
SC03GXQ
SC04GXQ



Dimensions in mm
*P: 77 (1 TO 6 CONTACTS)
101 (7-8 CONTACTS)

PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TC02GQ1

Grey/black small handle
□ 48 aluminium plate and frame

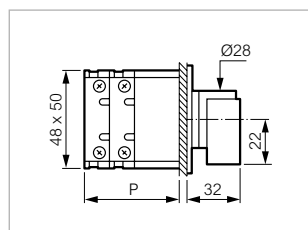
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR21 2201 C8 E Q48PN
PR21 2202 C8 E Q48PN
PR21 2203 C8 E Q48PN
PR21 2204 C8 E Q48PN

TC01GQ1
TC02GQ1
TC03GQ1
TC04GQ1



Dimensions in mm
*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)
57 (5-6 CONTACTS)
69 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)

Enclosure

Cat. No.



TC03GXQ

Black small handle
□ 64 aluminium plate

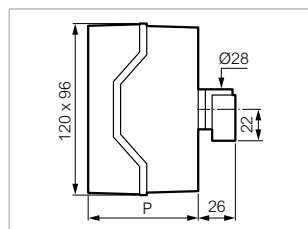
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR21 2201 C8 BCQ3
PR21 2202 C8 BCQ3
PR21 2203 C8 BCQ3
PR21 2204 C8 BCQ3

TC01GXQ
TC02GXQ
TC03GXQ
TC04GXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7-8 CONTACTS)

PR 26 - 32 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ZC02GQ7

Grey/black medium handle
□ 72 aluminium plate and frame

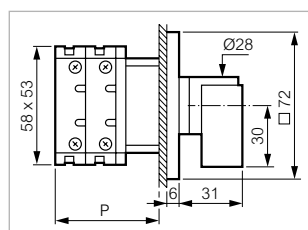
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR26 2201 C8 E Q72MN
PR26 2202 C8 E Q72MN
PR26 2203 C8 E Q72MN
PR26 2204 C8 E Q72MN

ZC01GQ7
ZC02GQ7
ZC03GQ7
ZC04GQ7



Dimensions in mm

*P: 36 (1-2 CONTACTS)
51 (3-4 CONTACTS)
66 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZC04GXQ

Black small handle
□ 64 aluminium plate

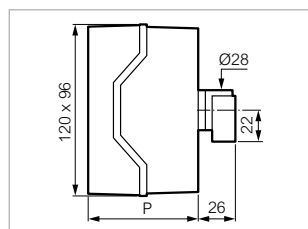
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR26 2201 C8 BCQ3
PR26 2202 C8 BCQ3
PR26 2203 C8 BCQ3
PR26 2204 C8 BCQ3

ZC01GXQ
ZC02GXQ
ZC03GXQ
ZC04GXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7-8 CONTACTS)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HC03GQ7

Grey/black medium handle
□ 72 aluminium plate and frame

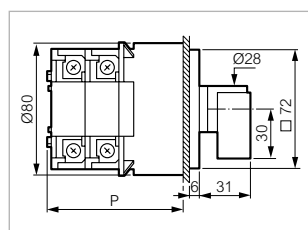
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR40 2201 C8 E Q72MN
PR40 2202 C8 E Q72MN
PR40 2203 C8 E Q72MN
PR40 2204 C8 E Q72MN

HC01GQ7
HC02GQ7
HC03GQ7
HC04GQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

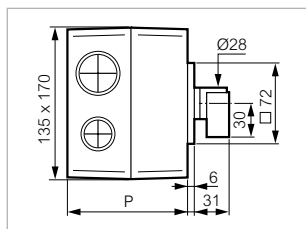
PR 40 - 50 A (AC21)

Enclosure

Cat. No.



HC01GAQ



Dimensions in mm

*P: 107 (1 TO 4 CONTACTS)
145 (5 TO 8 CONTACTS)

Grey/black medium handle
□ 72 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR40 2201 C8 BCFQ72MN
PR40 2202 C8 BCFQ72MN
PR40 2203 C8 BCFQ72MN
PR40 2204 C8 BCFQ72MN

HC01GAQ
HC02GBQ
HC03GCQ
HC04GDQ

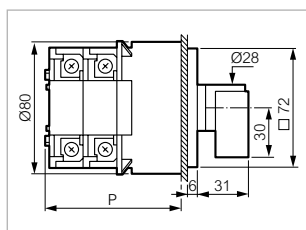
PR 63 - 63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IC02GQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

Grey/black medium handle
□ 72 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR63 2201 C8 E Q72MN
PR63 2202 C8 E Q72MN
PR63 2203 C8 E Q72MN
PR63 2204 C8 E Q72MN

IC01GQ7
IC02GQ7
IC03GQ7
IC04GQ7

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)
Enclosure
Cat. No.

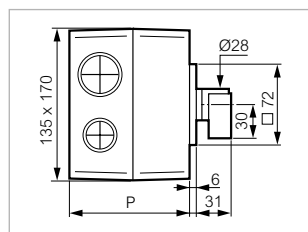

IC02GBQ

 Grey/black medium handle
 □ 72 aluminium plate and frame

 1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts

Designation

 PR63 2201 C8 BCFQ72MN
 PR63 2202 C8 BCFQ72MN
 PR63 2203 C8 BCFQ72MN
 PR63 2204 C8 BCFQ72MN

 IC01GAQ
 IC02GBQ
 IC03GCQ
IC04GDQ

Dimensions in mm

 *P: 107 (1 TO 4 CONTACTS)
 145 (5 TO 8 CONTACTS)

PR 125 - 160 A (AC21)
2-screw panel mount - interval: 50 mm
Cat. No.

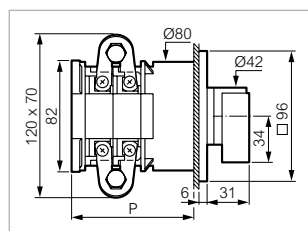

LC02GQ9

 Grey/black large handle
 □ 96 aluminium plate and frame

 1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts

Designation

 PR125 2201 C8 E Q96GN
 PR125 2202 C8 E Q96GN
 PR125 2203 C8 E Q96GN
 PR125 2204 C8 E Q96GN

 LC01GQ9
 LC02GQ9
 LC03GQ9
 LC04GQ9

Dimensions in mm

 *P: 80 (1-2 CONTACTS)
 120 (3-4 CONTACTS)
 160 (5-6 CONTACTS)
 200 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

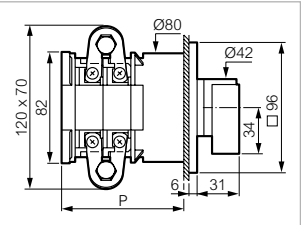
 Characteristics (p. 213)

► CHANGE-OVER SWITCH WITH “OFF” POSITION (CONTINUED)

PR 160 - 200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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MC02GQ9



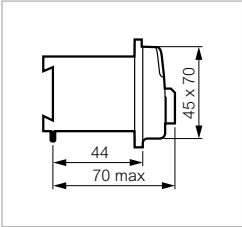
Dimensions in mm
*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

Designation	
Grey/black large handle	
□ 96 aluminium plate and frame	
1P - 2 contacts	
2P - 4 contacts	
3P - 6 contacts	
4P - 8 contacts	
PR160 2201 C8 E Q96GN	MC01GQ9
PR160 2202 C8 E Q96GN	MC02GQ9
PR160 2203 C8 E Q96GN	MC03GQ9
PR160 2204 C8 E Q96GN	MC04GQ9

PR 12 - 16 A (AC21)	Modular in panel DIN rail mounting	Cat. No.
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NDF15



Designation	
Small grey handle	
2P - 4 contacts	
PR12 2202 C8 DF	NDF15

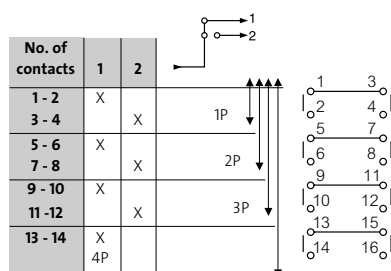
*P = Depth

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21)

Ø 16 and Ø 22 mm single hole front mounting

Cat. No.



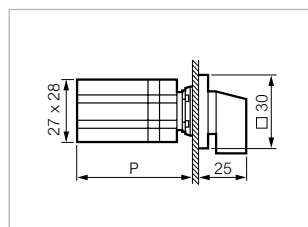
223511

□ 30 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



223511
223512
223513
223514



Dimensions in mm

*P: 50 (1-2 CONTACTS)
62 (3-4 CONTACTS)
74 (5-6 CONTACTS)
86 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NC53DQ1

Designation

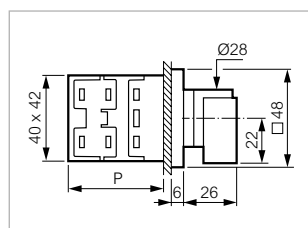
Grey/black small handle
□ 48 aluminium plate and frame

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR12 2251 D4 E Q48PN
PR12 2252 D4 E Q48PN
PR12 2253 D4 E Q48PN
PR12 2254 D4 E Q48PN

NC51DQ1
NC52DQ1
NC53DQ1
NC54DQ1



Dimensions in mm

*P: 36 (1-2 CONTACTS)
46 (3-4 CONTACTS)
56 (5-6 CONTACTS)
66 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



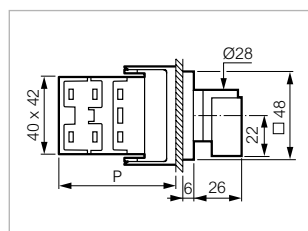
NC53DX80

 Grey/black small handle
 □ 48 aluminium plate and frame

Designation

 1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts

 PR12 2251 D4 E N48MD50
 PR12 2252 D4 E N48MD50
 PR12 2253 D4 E N48MD50
 PR12 2254 D4 E N48MD50

 NC51DX80
 NC52DX80
NC53DX80
NC54DX80


Dimensions in mm

 *P: 51 (1-2 CONTACTS)
 61 (3-4 CONTACTS)
 71 (5-6 CONTACTS)
 81 (7-8 CONTACTS)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



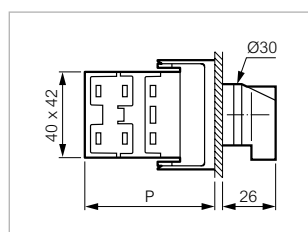
NC52DC113

 Black handle
 Matt chrome plastic bezel

Designation

 1P - 2 contacts
 2P - 4 contacts
 3P - 6 contacts
 4P - 8 contacts

 PR12 2251 D4 E C21RA03
 PR12 2252 D4 E C21RA03
 PR12 2253 D4 E C21RA03
 PR12 2254 D4 E C21RA03

 NC51DC113
 NC52DC113
 NC53DC113
 NC54DC113


Dimensions in mm

 *P: 51 (1-2 CONTACTS)
 61 (3-4 CONTACTS)
 71 (5-6 CONTACTS)
 81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

Enclosure

Cat. No.



NC51DXQ

Black small handle
□ 64 aluminium plate

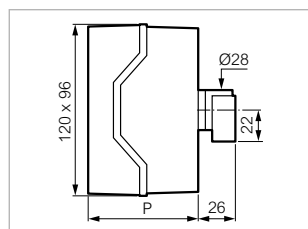
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR12 2251 D4 BCQ3
PR12 2252 D4 BCQ3
PR12 2253 D4 BCQ3
PR12 2254 D4 BCQ3

NC51DXQ
NC52DXQ
NC53DXQ
NC54DXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7 TO 8 CONTACTS)

PR 17 - 20 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



SC52DQ1

Grey/black small handle
□ 48 aluminium plate and frame

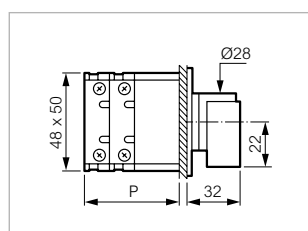
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR17 2251 D4 E Q48PN
PR17 2252 D4 E Q48PN
PR17 2253 D4 E Q48PN
PR17 2254 D4 E Q48PN

SC51DQ1
SC52DQ1
SC53DQ1
SC54DQ1



Dimensions in mm

*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)
57 (5-6 CONTACTS)
69 (7-8 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21)	Enclosure	Cat. No.
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SC51DXQ

Black small handle
□ 64 aluminium plate

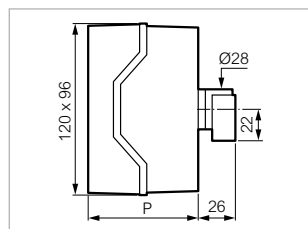
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR17 2251 D4 BCQ3
PR17 2252 D4 BCQ3
PR17 2253 D4 BCQ3
PR17 2254 D4 BCQ3

SC51DXQ
SC52DXQ
SC53DXQ
SC54DXQ



Dimensions in mm

*P: 77 (1 TO 6 CONTACTS)
101 (7 TO 8 CONTACTS)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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TC51DQ1

Grey/black small handle
□ 48 aluminium plate and frame

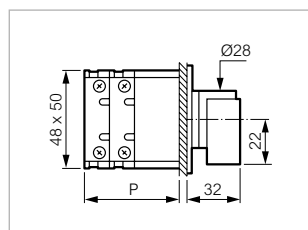
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR21 2251 D4 E Q48PN
PR21 2252 D4 E Q48PN
PR21 2253 D4 E Q48PN
PR21 2254 D4 E Q48PN

TC51DQ1
TC52DQ1
TC53DQ1
TC54DQ1



Dimensions in mm

*P: 33 (1-2 CONTACTS)
45 (3-4 CONTACTS)
57 (5-6 CONTACTS)
69 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TC53DXQ

Black small handle
□ 64 aluminium plate

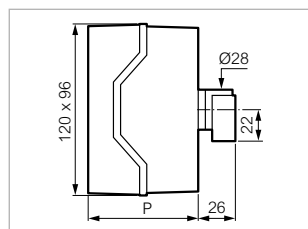
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR21 2251 D4 BCQ3
PR21 2252 D4 BCQ3
PR21 2253 D4 BCQ3
PR21 2254 D4 BCQ3

TC51DXQ
TC52DXQ
TC53DXQ
TC54DXQ



Dimensions in mm
*P: 77 (1 TO 6 CONTACTS)
101 (7 TO 8 CONTACTS)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZC52DQ7

Grey/black medium handle
□ 72 aluminium plate and frame

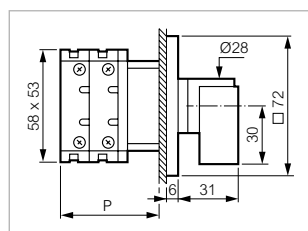
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR26 2251 D4 E Q72MN
PR26 2252 D4 E Q72MN
PR26 2253 D4 E Q72MN
PR26 2254 D4 E Q72MN

ZC51DQ7
ZC52DQ7
ZC53DQ7
ZC54DQ7



Dimensions in mm
*P: 36 (1-2 CONTACTS)
51 (3-4 CONTACTS)
66 (5-6 CONTACTS)
81 (7-8 CONTACTS)

*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)

Enclosure

Cat. No.



ZC51DXQ

Black small handle
□ 64 aluminium plate

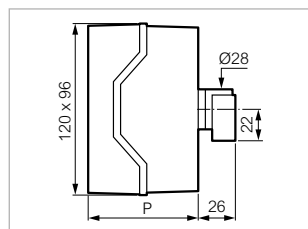
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR26 2251 D4 BCQ3
PR26 2252 D4 BCQ3
PR26 2253 D4 BCQ3
PR26 2254 D4 BCQ3

ZC51DXQ
ZC52DXQ
ZC53DXQ
ZC54DXQ



Dimensions in mm

*P: 77 (1 TO 4 CONTACTS)
101 (5 TO 8 CONTACTS)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HC52DQ7

Grey/black medium handle
□ 72 aluminium plate and frame

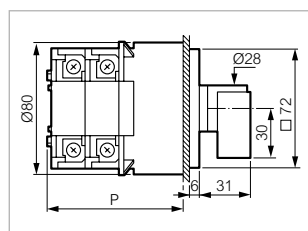
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR40 2251 D4 E Q72MN
PR40 2252 D4 E Q72MN
PR40 2253 D4 E Q72MN
PR40 2254 D4 E Q72MN

HC51DQ7
HC52DQ7
HC53DQ7
HC54DQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)

80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21)

Enclosure

Cat. No.



HC52DBQ

Grey/black medium handle
□ 72 aluminium plate and frame

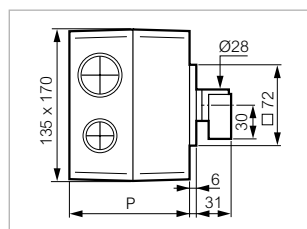
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR40 2251 D4 BCF Q72MN
PR40 2252 D4 BCF Q72MN
PR40 2253 D4 BCF Q72MN
PR40 2254 D4 BCF Q72MN

HC51DAQ
HC52DBQ
HC53DCQ
HC54DDQ



Dimensions in mm

*P: 107 (1 TO 4 CONTACTS)
145 (5 À 8 CONTACTS)

PR 63 - 63 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



IC51DQ7

Grey/black medium handle
□ 72 aluminium plate and frame

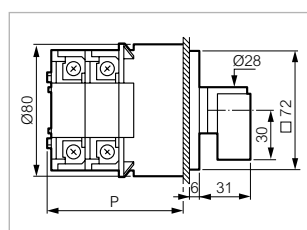
Designation

1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



PR63 2251 D4 E Q72MN
PR63 2252 D4 E Q72MN
PR63 2253 D4 E Q72MN
PR63 2254 D4 E Q72MN

IC51DQ7
IC52DQ7
IC53DQ7
IC54DQ7



Dimensions in mm

*P: 60 (1-2 CONTACTS)
80 (3-4 CONTACTS)
100 (5-6 CONTACTS)
120 (7-8 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)

Enclosure

Cat. No.



IC52DBQ

Grey/black medium handle
□ 72 aluminium plate and frame

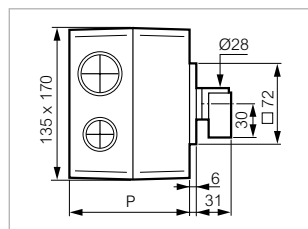
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR63 2251 D4 BCF Q72MN
PR63 2252 D4 BCF Q72MN
PR63 2253 D4 BCF Q72MN
PR63 2254 D4 BCF Q72MN

IC51DAQ
IC52DBQ
IC53DCQ
IC54DDQ



Dimensions in mm

*P: 107 (1 to 4 CONTACTS)
145 (5 à 8 CONTACTS)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



LC52DQ9

Grey/black large handle
□ 96 aluminium plate and frame

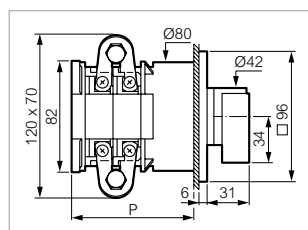
1P - 2 contacts
2P - 4 contacts
3P - 6 contacts
4P - 8 contacts



Designation

PR125 2251 D4 E Q96GN
PR125 2252 D4 E Q96GN
PR125 2253 D4 E Q96GN
PR125 2254 D4 E Q96GN

LC51DQ9
LC52DQ9
LC53DQ9
LC54DQ9



Dimensions in mm

*P: 80 (1-2 CONTACTS)
120 (3-4 CONTACTS)
160 (5-6 CONTACTS)
200 (7-8 CONTACTS)

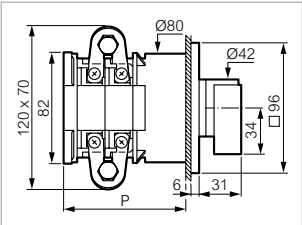
*P = Depth

Cam switches



Characteristics (p. 213)

► CHANGE-OVER SWITCH WITHOUT “OFF” POSITION (CONTINUED)

PR 160 - 200 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.		
 MC52DQ9	Designation			
	Grey/black large handle □ 96 aluminium plate and frame			
	1P - 2 contacts 2P - 4 contacts 3P - 6 contacts 4P - 8 contacts		PR160 2251 D4 E Q96GN PR160 2252 D4 E Q96GN PR160 2253 D4 E Q96GN PR160 2254 D4 E Q96GN	MC51DQ9 MC52DQ9 MC53DQ9 MC54DQ9
	Dimensions in mm *P: 80 (1-2 CONTACTS) 120 (3-4 CONTACTS) 160 (5-6 CONTACTS) 200 (7-8 CONTACTS)			

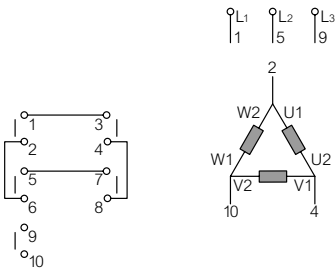
*P = Depth

Cam switches

 Characteristics (p. 213)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED

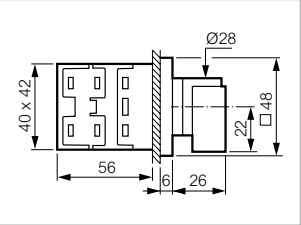
No. of contacts	REV	0	FWD
1-2	X		
3-4			X
5-6			X
7-8	X		
9-10	X		X



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NZ11GQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

5 contacts



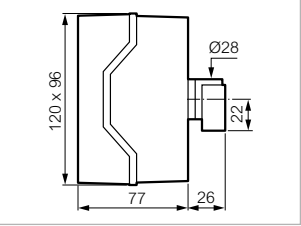
PR12 9151 C8 E Q48PN

NZ11GQ1

PR 12 - 16 A (AC21) Enclosure Cat. No.



NZ11GXQ



Designation

Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

5 contacts



PR12 9151 C8 BCQ3

NZ11GXQ

Cam switches



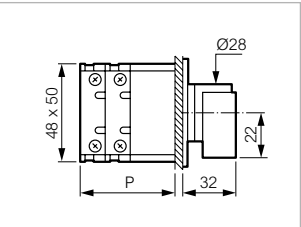
Characteristics (p. 213)

3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 17 - 20 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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SZ11GQ1

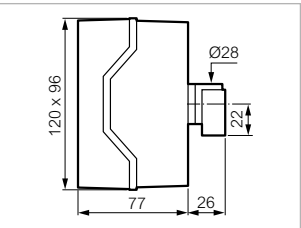


Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
P= 7.5 kW in 400 V			
5 contacts		PR17 9151 C8 E Q48PN	SZ11GQ1

PR 17 - 20 A (AC21)	Enclosure	Cat. No.
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SZ11GXQ



Designation			
Black small handle			
□ 64 aluminium plate			
P= 7.5 kW in 400 V			
5 contacts		PR17 9151 C8 BCQ3	SZ11GXQ

Cam switches

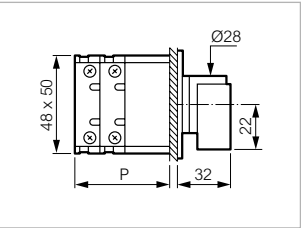
 Characteristics (p. 213)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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TZ11GQ1

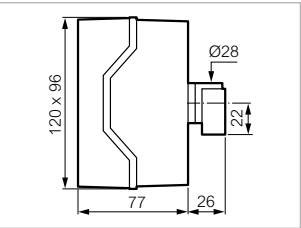


Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
P= 7,5 kW in 400 V			
5 contacts		PR21 9151 C8 E Q48PN	TZ11GQ1

PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TZ11GXQ



Designation			
Black small handle			
□ 64 aluminium plate			
P= 7,5 kW in 400 V			
5 contacts		PR21 9151 C8 BCQ3	TZ11GXQ

Cam switches



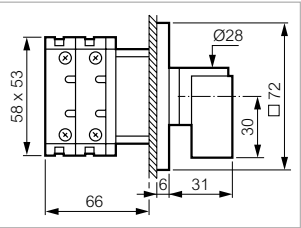
Characteristics (p. 213)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZZ11GQ7

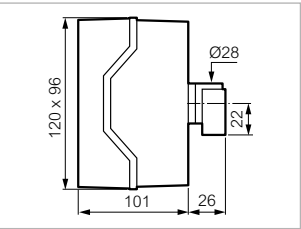


Designation		Cat. No.
Grey/black medium handle □ 72 aluminium plate and frame P= 11 kW in 400 V		
5 contacts		PR26 9151 C8 E Q72MN ZZ11GQ7

PR 26 - 32 A (AC21)	Enclosure	Cat. No.
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ZZ11GXQ



Designation		Cat. No.
Black small handle □ 64 aluminium plate P= 11 kW in 400 V		
5 contacts		PR26 9151 C8 BCQ3 ZZ11GXQ

Cam switches

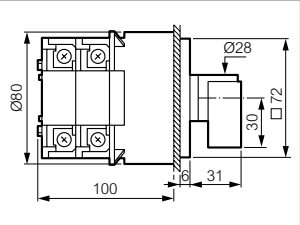
 Characteristics (p. 213)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ11GQ7

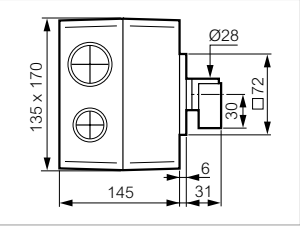


Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 18.5 kW in 400 V			
5 contacts		PR40 9151 C8 E Q72MN	HZ11GQ7

PR 40 - 50 A (AC21)	Enclosure	Cat. No.
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HZ11GCQ



Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 18.5 kW in 400 V			
5 contacts		PR40 9151 C8 BCF Q72MN	HZ11GCQ

Cam switches



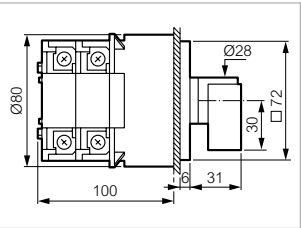
Characteristics (p. 213)

► 3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED (CONTINUED)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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IZ11GQ7

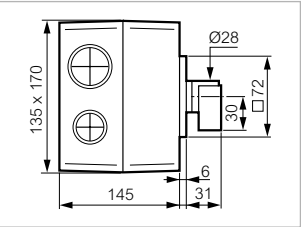


Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 22 kW in 400 V			
5 contacts		PR63 9151 C8 E Q72MN	IZ11GQ7

PR 63 - 63 A (AC21)	Enclosure	Cat. No.
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IZ11GXQ



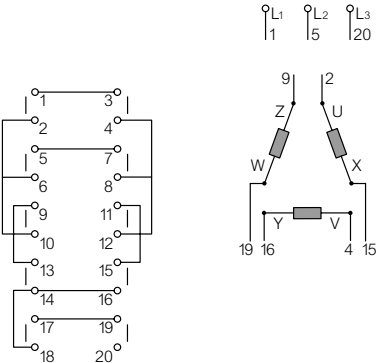
Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 22 kW in 400 V			
5 contacts		PR63 9151 C8 BCF Q72MN	IZ11GXQ

Cam switches

 Characteristics (p. 213)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR

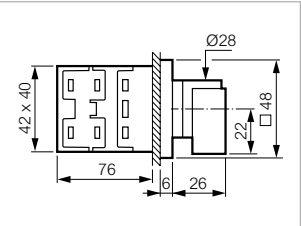
No. of contacts	REV			FWD	
	Δ	Y	0	Δ	Y
1 - 2				X	X
3 - 4	X	X			
5 - 6	X	X			
7 - 8				X	X
9 - 10	X				X
11 - 12	X				X
13 - 14		X	X		
15 - 16		X	X		
17 - 18	X				X
19 - 20	X	X		X	X



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NZ13GQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

10 contacts



PR12 9153 C8 E Q48PN

NZ13GQ1

Cam switches



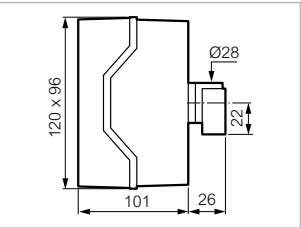
Characteristics (p. 213)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 12 - 16 A (AC21)	Enclosure		Cat. No.
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NZ13GXQ



Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

10 contacts



Designation

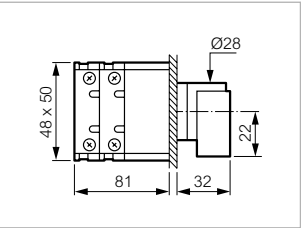
PR12 9153 C8 BCQ3

NZ13GXQ

PR 17 - 20 A (AC21)	2-crew panel mount – interval: 30 mm		Cat. No.
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SZ13GQ1



Grey/black small handle
□ 48 aluminium plate and frame
P= 7.5 kW in 400 V

10 contacts



Designation

PR17 9153 C8 E Q48PN

SZ13GQ1

Cam switches

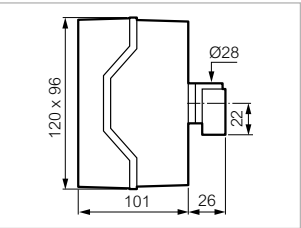
 Characteristics (p. 213)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 17 - 20 A (AC21)	Enclosure	Cat. No.
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SZ13GXQ

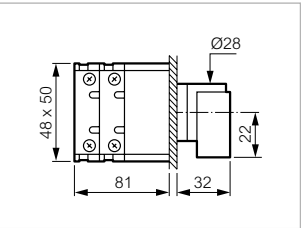


Designation	
Black small handle □ 64 aluminium plate P= 7.5 kW in 400 V 10 contacts	
PR17 9153 C8 BCQ3	SZ13GXQ

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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TZ13GQ1



Designation	
Grey/black small handle □ 48 aluminium plate and frame P= 7.5 kW in 400 V 10 contacts	
PR21 9153 C8 E Q48PN	TZ13GQ1

Cam switches



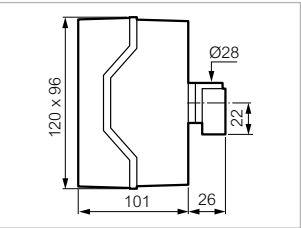
Characteristics (p. 213)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TZ13GXQ

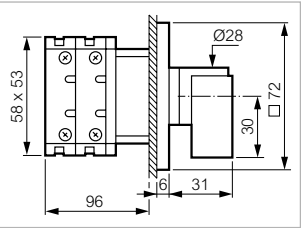


Designation	
Black small handle	
□ 64 aluminium plate	
P= 7.5 kW in 400 V	
10 contacts	
PR21 9153 C8 BCQ3	TZ13GXQ

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZZ13GQ7



Designation	
Grey/black medium handle	
□ 72 aluminium plate and frame	
P= 11 kW in 400 V	
10 contacts	
PR26 9153 C8 E Q72MN	ZZ13GQ7

Cam switches

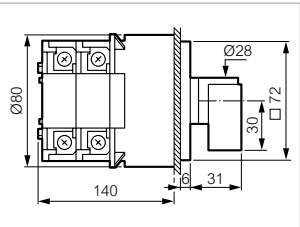
 Characteristics (p. 213)

► 1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ13GQ7

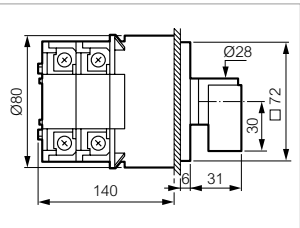


Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 18,5 kW in 400 V		
10 contacts		PR40 9153 C8 E Q72MN
		HZ13GQ7

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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IZ13GQ7



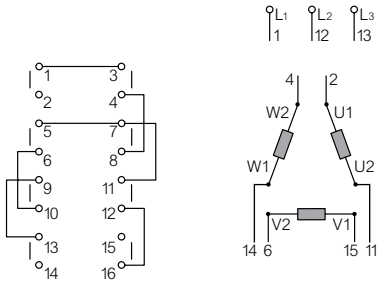
Designation		
Grey/black medium handle		
□ 72 aluminium plate and frame		
P= 22 kW in 400 V		
10 contacts		PR63 9153 C8 E Q72MN
		IZ13GQ7

Cam switches

 Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR

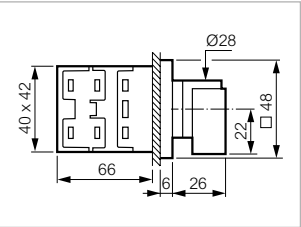
No. of contacts	0	Y	Δ
1 - 2		X	X
3 - 4		X	
5 - 6	X	X	
7 - 8	X	X	
9 - 10			X
11 - 12			X
13 - 14	X	X	X
15 - 16	X	X	X



PR 12 - 16 A (AC21) 2- screw panel mount – interval: 30 mm Cat. No.



NZ51BQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

8 contacts



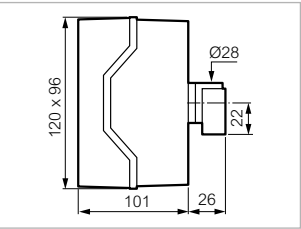
PR12 9551 B4 E Q48PN

NZ51BQ1

PR 12 - 16 A (AC21) Enclosure Cat. No.



NZ51BXQ



Designation

Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

8 contacts



PR12 9551 B4 BCQ3

NZ51BXQ

Cam switches



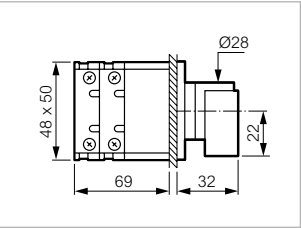
Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 17 - 20 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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SZ51BQ1

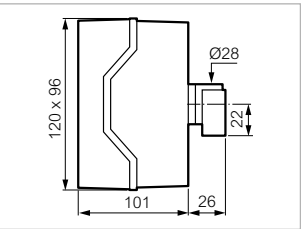


Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
P= 7.5 kW in 400 V			
8 contacts		PR17 9551 B4 E Q48PN	SZ51BQ1

PR 17 - 20 A (AC21)	Enclosure	Cat. No.
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SZ51BXQ



Designation			
Black small handle			
□ 64 aluminium plate			
P= 7.5 kW in 400 V			
8 contacts		PR17 9551 B4 BCQ3	SZ51BXQ

Cam switches



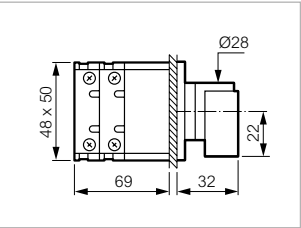
Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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TZ51BQ1

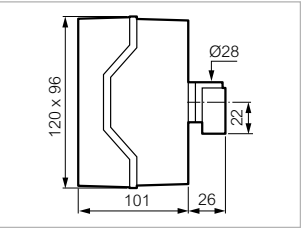


Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
P= 7.5 kW in 400 V			
8 contacts		PR21 9551 B4 E Q48PN	TZ51BQ1

PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TZ51BXQ



Designation			
Black small handle			
□ 64 aluminium plate			
P= 7.5 kW in 400 V			
8 contacts		PR21 9551 B4 BCQ3	TZ51BXQ

Cam switches

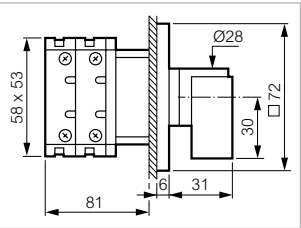
 Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZZ51BQ7

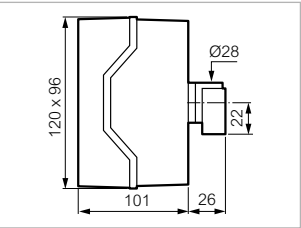


Designation			
Grey/black medium handle		PR26 9551 B4 E Q72MN	ZZ51BQ7
□ 72 aluminium plate and frame			
P= 11 kW in 400 V			
8 contacts			

PR 26 - 32 A (AC21)	Enclosure	Cat. No.
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ZZ51BXQ



Designation			
Black small handle		PR26 9551 B4 BCQ3	ZZ51BXQ
□ 64 aluminium plate			
P= 11 kW in 400 V			
8 contacts			

Cam switches



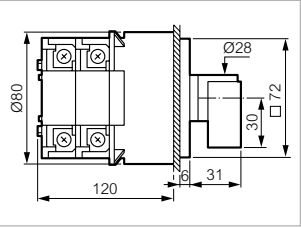
Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ51BQ7

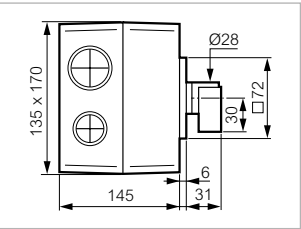


Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 18.5 kW in 400 V			
8 contacts		PR40 9551 B4 E Q72MN	HZ51BQ7

PR 40 - 50 A (AC21)	Enclosure	Cat. No.
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HZ51BDQ



Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 18.5 kW in 400 V			
8 contacts		PR40 9551 B4 BCF Q72MN	HZ51BDQ

Cam switches

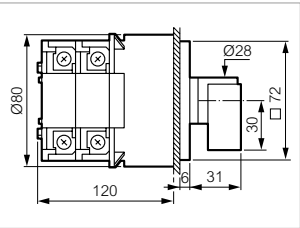
 Characteristics (p. 213)

► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR (CONTINUED)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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IZ51BQ7

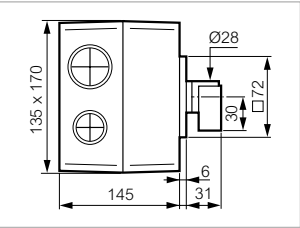


Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 22 kW in 400 V			
8 contacts		PR63 9551 B4 E Q72MN	IZ51BQ7

PR 63 - 63 A (AC21)	Enclosure	Cat. No.
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HZ51BDQ



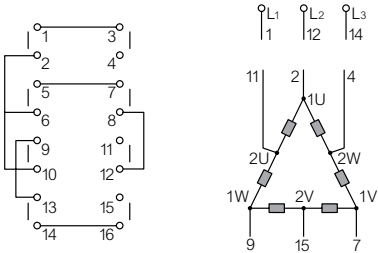
Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
P= 22 kW in 400 V			
8 contacts		PR63 9551 B4 BCF Q72MN	IZ51BDQ

Cam switches

 Characteristics (p. 213)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR

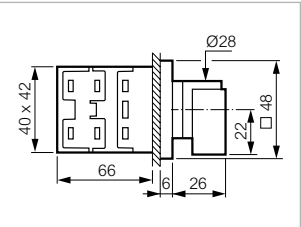
No. of contacts	LS	0	HS	No. of contacts	0	LS	HS
1 - 2	X			1 - 2		X	
3 - 4			X	3 - 4			X
5 - 6			X	5 - 6			X
7 - 8	X			7 - 8		X	
9 - 10			X	9 - 10			X
11 - 12			X	11 - 12			X
13 - 14	X			13 - 14		X	
15 - 16			X	15 - 16			X



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NZ52CQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
P= 4 kW in 400 V

8 contacts



PR12 9552 B4 E Q48PN

NZ52BQ1

8 contacts



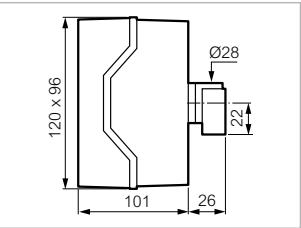
PR12 9552 C4 E Q48PN

NZ52CQ1

PR 12 - 16 A (AC21) Enclosure Cat. No.



NZ52CXQ



Designation

Black small handle
□ 64 aluminium plate
P= 4 kW in 400 V

8 contacts



PR12 9552 B4 BCQ3

NZ52BXQ

8 contacts



PR12 9552 C4 BCQ3

NZ52CXQ

Cam switches

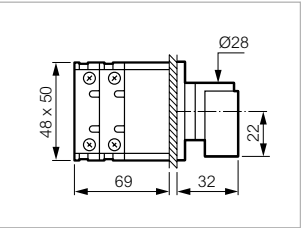
 Characteristics (p. 213)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 17 - 20 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



SZ52BQ1

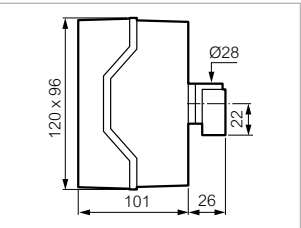


Designation			
Grey/black small handle			
□ 48 aluminium plate and frame			
P= 7.5 kW in 400 V			
8 contacts		PR17 9552 B4 E Q48PN	SZ52BQ1
8 contacts		PR17 9552 C4 E Q48PN	SZ52CQ1

PR 17 - 20 A (AC21) Enclosure Cat. No.



SZ52BXQ



Designation			
Black small handle			
□ 64 aluminium plate			
P= 7.5 kW in 400 V			
8 contacts		PR17 9552 B4 BCQ3	SZ52BXQ
8 contacts		PR17 9552 C4 BCQ3	SZ52CXQ

Cam switches



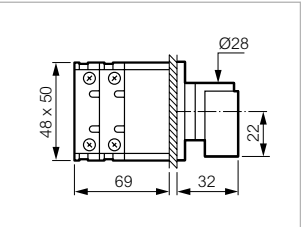
Characteristics (p. 213)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 21 - 25 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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TZ52BQ1

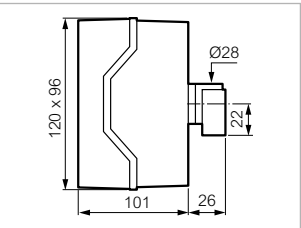


Designation			
Grey/black small handle □ 48 aluminium plate and frame P= 7.5 kW in 400 V			
8 contacts		PR21 9552 B4 E Q48PN	TZ52BQ1
8 contacts		PR21 9552 C4 E Q48PN	TZ52CQ1

PR 21 - 25 A (AC21)	Enclosure	Cat. No.
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TZ52BXQ



Designation			
Black small handle □ 64 aluminium plate P= 7.5 kW in 400 V			
8 contacts		PR21 9552 B4 BCQ3	TZ52BXQ
8 contacts		PR21 9552 C4 BCQ3	TZ52CXQ

Cam switches

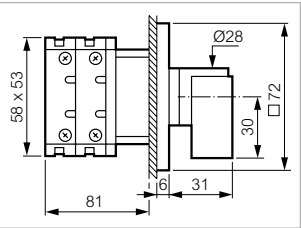
 Characteristics (p. 213)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZZ52BQ7

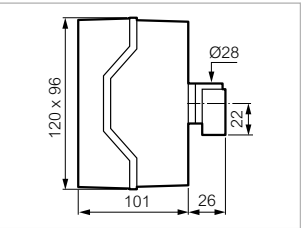


Designation			
Grey/black medium handle □ 72 aluminium plate and frame P= 11 kW in 400 V			
8 contacts		PR26 9552 B4 E Q72MN	ZZ52BQ7
8 contacts		PR26 9552 C4 E Q72MN	ZZ52CQ7

PR 26 - 32 A (AC21)	Enclosure	Cat. No.
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ZZ52BXQ



Designation			
Black small handle □ 64 aluminium plate P= 11 kW in 400 V			
8 contacts		PR26 9552 B4 BCQ3	ZZ52BXQ
8 contacts		PR26 9552 C4 BCQ3	ZZ52CXQ

Cam switches

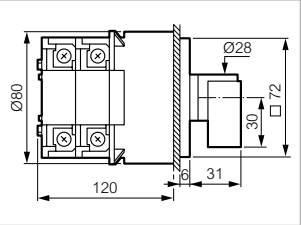
 Characteristics (p. 213)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 40 - 50 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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HZ52BQ7

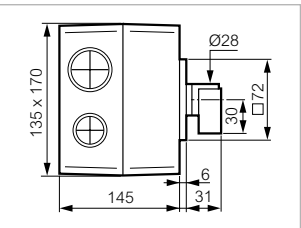


Designation			
Grey/black medium handle □ 72 aluminium plate and frame P= 18.5 kW in 400 V			
8 contacts		PR40 9552 B4 E Q72MN	HZ52BQ7
8 contacts		PR40 9552 C4 E Q72MN	HZ52CQ7

PR 40 - 50 A (AC21)	Enclosure	Cat. No.
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HZ52BDQ



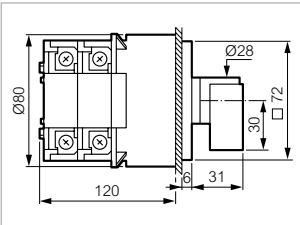
Designation			
Grey/black medium handle □ 72 aluminium plate and frame P= 18.5 kW in 400 V			
8 contacts		PR40 9552 B4 BCF Q72MN	HZ52BDQ
8 contacts		PR40 9552 C4 BCF Q72MN	HZ52CDQ

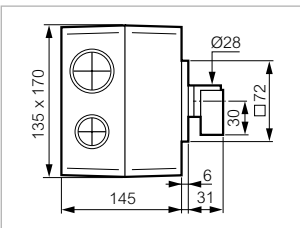
Cam switches

 Characteristics (p. 213)

► 2 SPEEDS, 1 WAY – 3 PHASE DALHANDER MOTOR (CONTINUED)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.		
 IZ52BQ7	Designation			
	Grey/black medium handle □ 72 aluminium plate and frame P= 22 kW in 400 V			
	8 contacts		PR63 9552 B4 E Q72MN	IZ52BQ7
	8 contacts		PR63 9552 C4 E Q72MN	IZ52CQ7

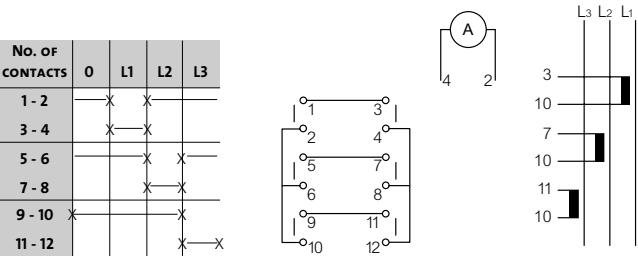


PR 63 - 63 A (AC21)	Enclosure	Cat. No.		
 IZ52BDQ 	Designation			
	Grey/black medium handle □ 72 aluminium plate and frame P= 22 kW in 400 V			
	8 contacts		PR63 9552 B4 BCF Q72MN	IZ52BDQ
	8 contacts		PR63 9552 C4 BCF Q72MN	IZ52CDQ

Cam switches

 Characteristics (p. 213)

► AMMETER SWITCH, 3 CTS WITH COMMON POINT



MINI CAM SWITCH - 10 A (AC21) ø 16 or 22 single hole front mounting Cat. No.

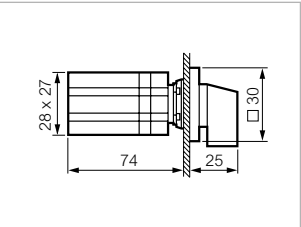


- ☐ 30 aluminium plate and frame
- 1 network, 3 wires, 1 ammeter

6 contacts



223529



Cam switches



Characteristics (p. 213)

► AMMETER SWITCH, 3 CTS WITH COMMON POINT (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY11AQ1

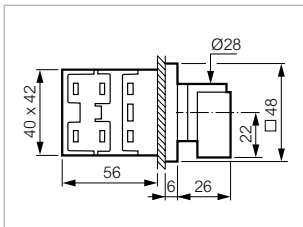
Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3 wires, 1 ammeter
 6 contacts



Designation

PR12 8151 A4 E Q48PN

NY11AQ1



PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NY11AX80

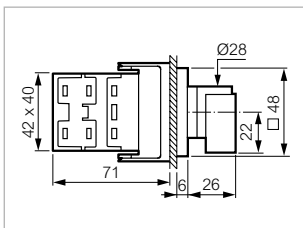
Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3 wires, 1 ammeter
 6 contacts



Designation

PR12 8151 A4 E N48MD50

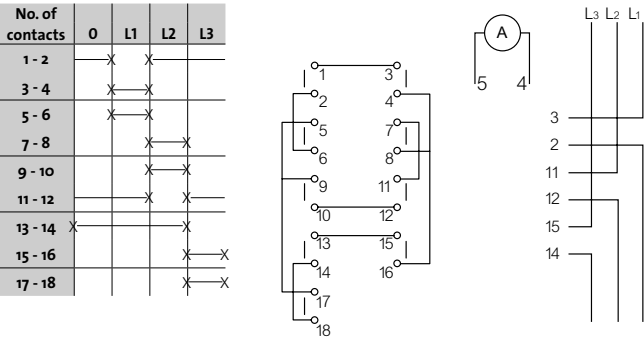
NY11AX80



Cam switches

 Characteristics (p. 213)

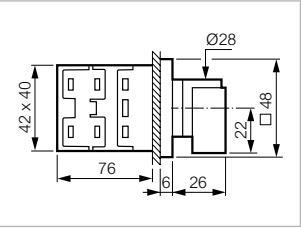
► AMMETER SWITCH, WITHOUT CT



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NY14AQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



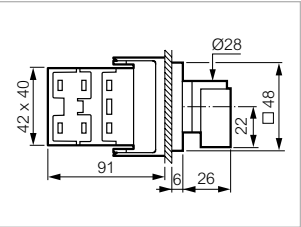
PR12 8164 A4 E Q48PN

NY14AQ1

PR 12 - 16 A (AC21) Ø 22 single hole front mounting Cat. No.



NY14AX80



Designation

Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



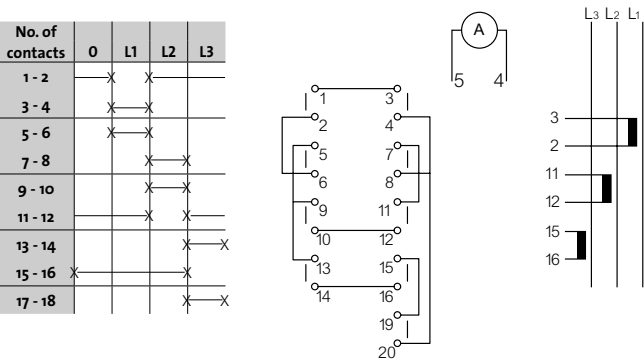
PR12 8164 A4 E N48MD50

NY14AX80

Cam switches

 Characteristics (p. 213)

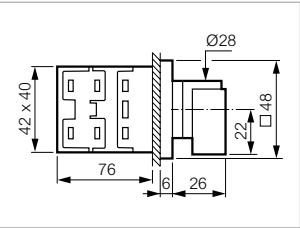
► AMMETER SWITCH WITHOUT COMMON POINT



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.



NY17AQ1



Designation

Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



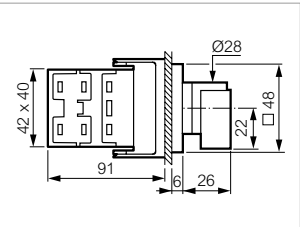
PR12 8157 A4 E Q48PN

NY17AQ1

PR 12 - 16 A (AC21) Ø 22 single hole front mounting Cat. No.



NY17AX80



Designation

Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3 wires, 1 ammeter

9 contacts



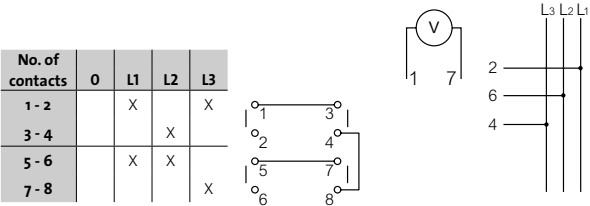
PR12 8157 A4 E N48MD50

NY17AX80

Cam switches

 Characteristics (p. 213)

► VOLTMETER SWITCH, WITHOUT NEUTRAL



MINI CAM SWITCH - 10 A (AC21) Ø 16 or 22 single hole front mounting Cat. No.



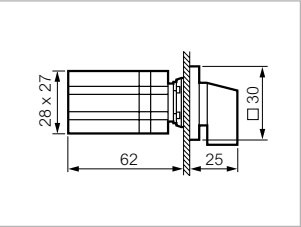
223527

- ☐ 3Ø aluminium plate and frame
- 1 network, 3-phase without neutral
- 1 voltmeter

4 contacts



223527



Cam switches



Characteristics (p. 213)

► VOLTMETER SWITCH, WITHOUT NEUTRAL (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY31AQ1

Designation

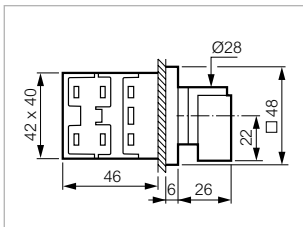
Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3-phase without neutral
 1 voltmeter

4 contacts



PR12 8351 A4 E Q48PN

NY31AQ1



PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



NY31AX80

Designation

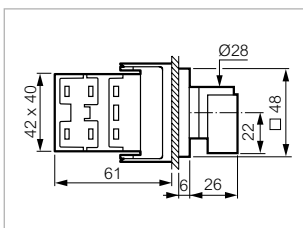
Grey/black small handle
 □ 48 aluminium plate and frame
 1 network, 3-phase without neutral
 1 voltmeter

4 contacts



PR12 8351 A4 E N48MD50

NY31AX80



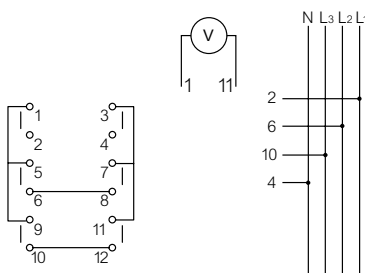
Cam switches



Characteristics (p. 213)

► VOLTMETER SWITCH, WITH NEUTRAL

No. of contacts	L3 L1	L2 L2	L1 L3	0 0	L1 N	L2 N	L3 N
1 - 2	X		X		X		
3 - 4					X	X	X
5 - 6		X				X	
7 - 8			X				
9 - 10							X
11 - 12	X	X					



MINI CAM SWITCH - 10 A (AC21)

ø 16 or 22 single hole front mounting

Cat. No.



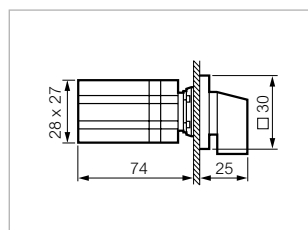
223528

□ 30 aluminium plate and frame
1 network, 3-phase with neutral,
1 voltmeter

6 contacts



223528



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NY37GQ1

Designation

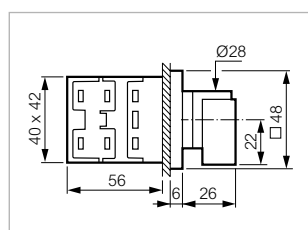
Grey/black small handle
□ 48 aluminium plate and frame
1 network, 3-phase with neutral,
1 voltmeter

6 contacts



PR12 8357 C8 E Q48PN

NY37GQ1



Cam switches



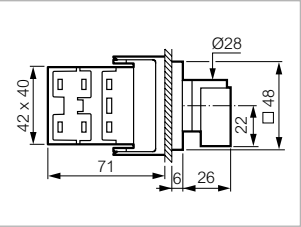
Characteristics (p. 213)

► VOLTMETER SWITCH, WITH NEUTRAL (CONTINUED)

PR 12 - 16 A (AC21)	Ø22 single hole front mounting	Cat. No.
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NY37GX80

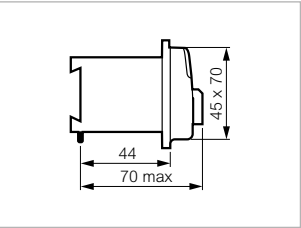


Designation		
Grey/black small handle □ 48 aluminium plate and frame 1 network, 3-phase with neutral, 1 voltmeter		
6 contacts		PR12 8357 C8 E N48MD50 NY37GX80

PR 12 - 16 A (AC21)	Modular in panel DIN rail mounting	Cat. No.
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NDF03

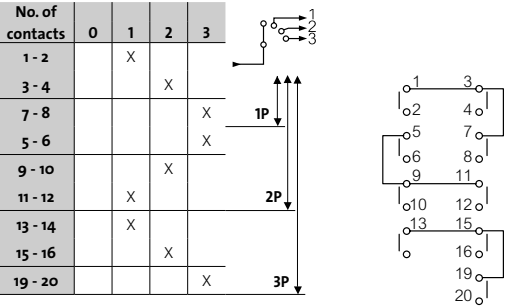


Designation		
Small grey handle 1 network, 3-phase with neutral, 1 voltmeter		
6 contacts		PR12 8357 C8 DF NDF03

Cam switches

 Characteristics (p. 213)

► 3-WAY SWITCHES WITH “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21) Ø 16 or 22 single hole front mounting Cat. No.



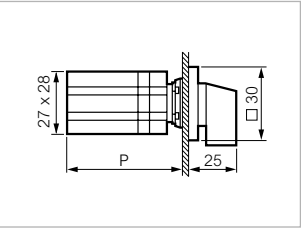
223522

□ 30 aluminium plate and frame

- 1P -3 contacts
- 2P -6 contacts
- 3P -9 contacts



223521
223522
223523



Dimensions in mm
*P: 62 (3 CONTACTS)
74 (6 CONTACTS)
95 (9 CONTACTS)

*P = Depth

Cam switches



Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ND03AQ1

Grey/black small handle
□ 48 aluminium plate and frame

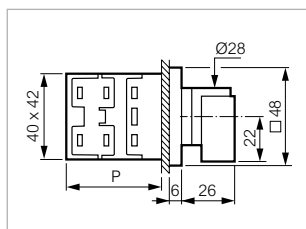
1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



Designation

PR12 2301 A4 E Q48PN
PR12 2302 A4 E Q48PN
PR12 2303 A4 E Q48PN

ND01AQ1
ND02AQ1
ND03AQ1



Dimensions in mm

*P: 46 (3 CONTACTS)
56 (6 CONTACTS)
76 (9 CONTACTS)

PR 12 - 16 A (AC21)

Ø 22 single hole front mounting

Cat. No.



ND02AX80

Grey/black small handle
□ 48 aluminium plate and frame

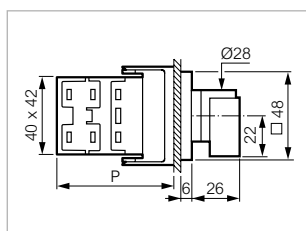
1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



Designation

PR12 2301 A4 E N48MD50
PR12 2302 A4 E N48MD50
PR12 2303 A4 E N48MD50

ND01AX80
ND02AX80
ND03AX80



Dimensions in mm

*P: 61 (3 CONTACTS)
71 (6 CONTACTS)
91 (9 CONTACTS)

*P = Depth

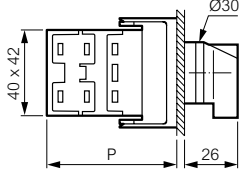
Catalogue No. in bold: normally in stock at distribution outlets

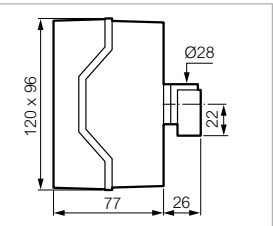
Cam switches



Characteristics (p. 213)

3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 12 - 16 A (AC21)	∅ 22 single hole front mounting	Cat. No.		
	Designation			
	With selector switch style handle Matt chrome plastic bezel			
	1P - 3 contacts		PR12 2301 A4 E C21RA03	ND01AC113
	2P - 6 contacts		PR12 2302 A4 E C21RA03	ND02AC113
	3P - 9 contacts		PR12 2303 A4 E C21RA03	ND03AC113
	Dimensions in mm *P: 61 (3 CONTACTS) 71 (6 CONTACTS) 91 (9 CONTACTS)			
				

PR 12 - 16 A (AC21)	Enclosure	Cat. No.	
 ND02AXQ	Black small handle □ 64 aluminium plate	Designation	
	1P - 3 contacts	PR12 2301 A4 BCQ3	ND01AXQ
	2P - 6 contacts	PR12 2302 A4 BCQ3	ND02AXQ
	3P - 9 contacts	PR12 2303 A4 BCQ3	ND03AXQ
	Dimensions in mm		
	*P: 77 (3 TO 6 CONTACTS) 101 (9 CONTACTS)		

*P = Depth

Cam switches



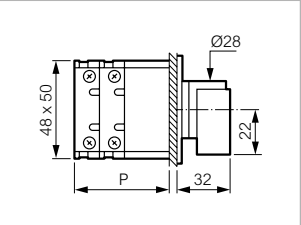
Characteristics (p. 213)

3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 17 - 20 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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SD03AQ1



Dimensions in mm

*P: 45 (3 CONTACTS)
57 (6 CONTACTS)
81 (9 CONTACTS)

Designation

Grey/black small handle
□ 48 aluminium plate and frame

1P -3 contacts
2P - 6 contacts
3P - 9 contacts



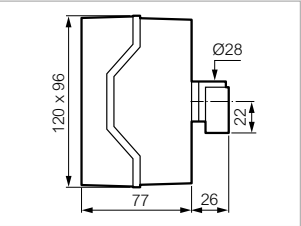
PR17 2301 A4 E Q48PN
PR17 2302 A4 E Q48PN
PR17 2303 A4 E Q48PN

SD01AQ1
SD02AQ1
SD03AQ1

PR 17 - 20 A (AC21)	Enclosure	Cat. No.
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SD02AXQ



Dimensions in mm

*P: 77 (3 TO 6 CONTACTS)
101 (9 CONTACTS)

Designation

Black small handle
□ 64 aluminium plate

1P -3 contacts
2P - 6 contacts
3P - 9 contacts



PR17 2301 A4 BCQ3
PR17 2302 A4 BCQ3
PR17 2303 A4 BCQ3

SD01AXQ
SD02AXQ
SD03AXQ

*P = Depth

Cam switches



Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 21 - 25 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



TD02AQ1

Grey/black small handle
□ 48 aluminium plate and frame

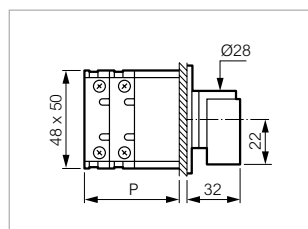
1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



Designation

PR21 2301 A4 E Q48PN
PR21 2302 A4 E Q48PN
PR21 2303 A4 E Q48PN

TD01AQ1
TD02AQ1
TD03AQ1



Dimensions in mm

*P: 45 (3 CONTACTS)
57 (6 CONTACTS)
81 (9 CONTACTS)

PR 21 - 25 A (AC21)

Enclosure

Cat. No.



TD01AXQ

Black small handle
□ 64 aluminium plate

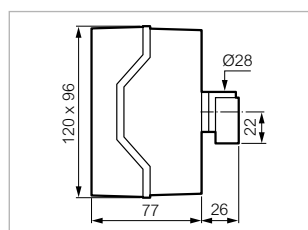
1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



Designation

PR21 2301 A4 BCQ3
PR21 2302 A4 BCQ3
PR21 2303 A4 BCQ3

TD01AXQ
TD02AXQ
TD03AXQ



Dimensions in mm

*P: 77 (3 TO 6 CONTACTS)
101 (9 CONTACTS)

*P = Depth

Cam switches



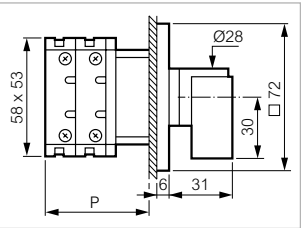
Characteristics (p. 213)

3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 26 - 32 A (AC21)	2-screw panel mount – interval: 30 mm	Cat. No.
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ZD02AQ7



Dimensions in mm

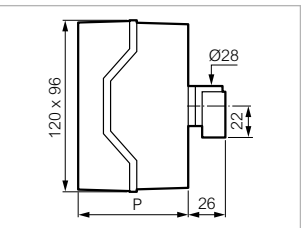
*P: 51 (3 CONTACTS)
66 (6 CONTACTS)
96 (9 CONTACTS)

Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
1P -3 contacts		PR26 2301 A4 E Q72MN	ZD01AQ7
2P - 6 contacts		PR26 2302 A4 E Q72MN	ZD02AQ7
3P - 9 contacts		PR26 2303 A4 E Q72MN	ZD03AQ7

PR 26 - 32 A (AC21)	Enclosure	Cat. No.
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ZD01AXQ



Dimensions in mm

*P: 77 (3 CONTACTS)
101 (6 CONTACTS)

Designation			
Black small handle			
□ 64 aluminium plate			
1P -3 contacts		PR26 2301 A4 BCQ3	ZD01AXQ
2P - 6 contacts		PR26 2302 A4 BCQ3	ZD02AXQ

*P = Depth

Cam switches



Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 40 - 50 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



HD02AQ7

Grey/black medium handle
□ 72 aluminium plate and frame

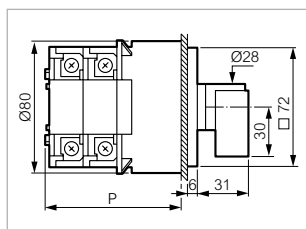
Designation

1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR40 2301 A4 E Q72MN
PR40 2302 A4 E Q72MN
PR40 2303 A4 E Q72MN

HD01AQ7
HD02AQ7
HD03AQ7



Dimensions in mm

*P: 80 (3 CONTACTS)
100 (6 CONTACTS)
140 (9 CONTACTS)

PR 40 - 50 A (AC21)

Enclosure

Cat. No.



HD01ABQ

Grey/black medium handle
□ 72 aluminium plate and frame

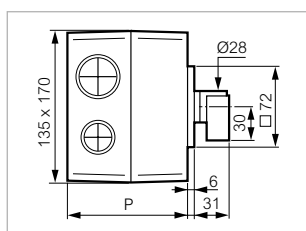
Designation

1P - 3 contacts
2P - 6 contacts



PR40 2301 A4 BCF Q72MN
PR40 2302 A4 BCF Q72MN

HD01ABQ
HD02ACQ



Dimensions in mm

*P: 107 (3 CONTACTS)
145 (6 CONTACTS)

*P = Depth

Cam switches

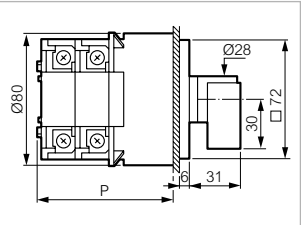
 Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 63 - 63 A (AC21)	2-screw panel mount - interval: 50 mm	Cat. No.
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ID01AQ7



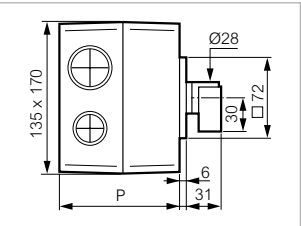
Dimensions in mm
*P: 80 (3 CONTACTS)
100 (6 CONTACTS)
140 (9 CONTACTS)

Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
1P -3 contacts		PR63 2301 A4 E Q72MN	ID01AQ7
2P - 6 contacts		PR63 2302 A4 E Q72MN	ID02AQ7
3P - 9 contacts		PR63 2303 A4 E Q72MN	ID03AQ7

PR 63 - 63 A (AC21)	Enclosure	Cat. No.
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ID01ABQ



Dimensions in mm
*P: 107 (3 CONTACTS)
145 (6 CONTACTS)

Designation			
Grey/black medium handle			
□ 72 aluminium plate and frame			
1P -3 contacts		PR63 2301 A4 BCF Q72MN	ID01ABQ
2P - 6 contacts		PR63 2302 A4 BCF Q72MN	ID02ACQ

*P = Depth

Cam switches



Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITH “OFF” POSITION (CONTINUED)

PR 125 - 160 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



Designation

Grey/black large handle
□ 96 aluminium plate and frame

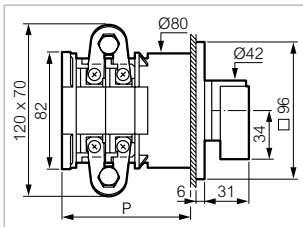
1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR125 2301 A4 E Q96GN
PR125 2302 A4 E Q96GN
PR125 2303 A4 E Q96GN

LD01AQ9
LD02AQ9
LD03AQ9

LD02AQ9



Dimensions in mm

*P: 120 (3 CONTACTS)
160 (6 CONTACTS)
240 (9 CONTACTS)

PR 160 - 200 A (AC21)

2-screw panel mount - interval: 50 mm

Cat. No.



Designation

Grey/black large handle
□ 96 aluminium plate and frame

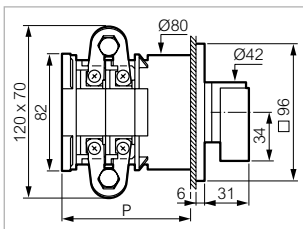
1P - 3 contacts
2P - 6 contacts
3P - 9 contacts



PR160 2301 A4 E Q96GN
PR160 2302 A4 E Q96GN
PR160 2303 A4 E Q96GN

MD01AQ9
MD02AQ9
MD03AQ9

MD01AQ9



Dimensions in mm

*P: 120 (3 CONTACTS)
160 (6 CONTACTS)
240 (9 CONTACTS)

*P = Depth

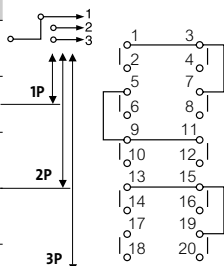
Cam switches



Characteristics (p. 213)

► 3-WAY CAM SWITCHES WITHOUT “OFF” POSITION

No. of contacts	1	2	3
1 - 2	X		
3 - 4		X	
7 - 8			X
5 - 6			X
9 - 10		X	
11 - 12	X		
13 - 14	X		
15 - 16		X	
19 - 20			X



MINI CAM SWITCH - 10 A (AC21)

Ø 16 or 22 single hole front mounting

Cat. No.



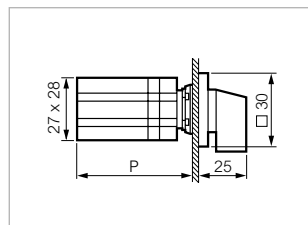
223516

□ 30 aluminium plate and frame

1P -3 contacts
2P -6 contacts
3P -9 contacts



223515
223516
223517



Dimensions in mm

*P: 50 (3 CONTACTS)
74 (6 CONTACTS)
95 (9 CONTACTS)

PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



ND51EQ1

Designation

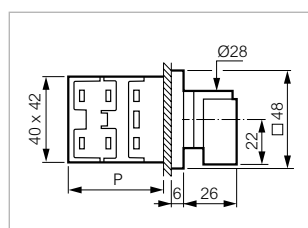
Grey/black small handle
□ 48 aluminium plate and frame

1P -3 contacts
2P -6 contacts
3P -9 contacts



PR12 2351 A8 E Q48PN
PR12 2352 A8 E Q48PN
PR12 2353 A8 E Q48PN

ND51EQ1
ND52EQ1
ND53EQ1



Dimensions in mm

*P: 46 (3 CONTACTS)
56 (6 CONTACTS)
76 (9 CONTACTS)

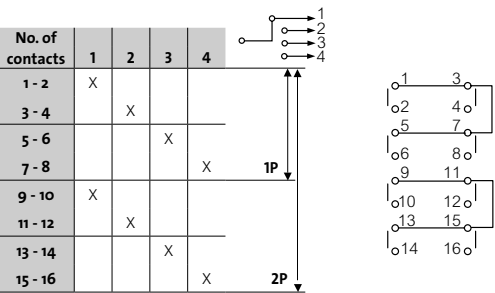
*P = Depth

Catalogue No. in bold: normally in stock at distribution outlets

Cam switches

 Characteristics (p. 213)

► 4-WAY CAM SWITCHES WITHOUT “OFF” POSITION



MINI CAM SWITCH - 10 A (AC21) ø 16 or 22 single hole front mounting Cat. No.



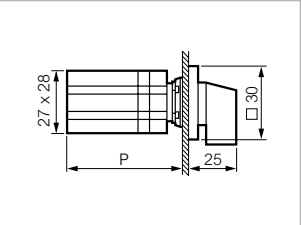
223525

□ 30 aluminium plate and frame

1P -4 contacts
2P -8 contacts



223525
223526



Dimensions in mm
*P: 62 (4 CONTACTS)
86 (8 CONTACTS)

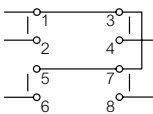
*P = Depth

Cam switches

 Characteristics (p. 213)

► CODING SWITCH WITH “OFF”

No. of contacts	Positions											
	0	1	2	3	4	5	6	7	8	9	10	11
1 - 2		X		X		X		X		X		X
3 - 4			X	X			X	X			X	X
5 - 6					X			X				
7 - 8									X			X



PR 12 - 16 A (AC21) 2-screw panel mount – interval: 30 mm Cat. No.

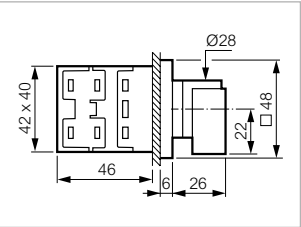


NR51UQ1

Designation
Grey/black small handle
□ 48 aluminium plate and frame
4 contacts



PR12 6501 A1 E Q48PN NR51UQ1

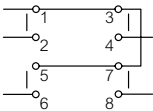


Cam switches

 Characteristics (p. 213)

► CODING SWITCH WITHOUT “OFF”

No. of contacts	Positions											
	1	2	3	4	5	6	7	8	9	10	11	12
1 - 2	X		X		X		X		X		X	
3 - 4		X	X			X	X			X	X	
5 - 6				X				X				X
7 - 8								X				X



PR 12 - 16 A (AC21) **2-screw panel mount – interval: 30 mm** **Cat. No.**



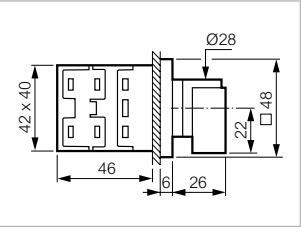
NR52UQ1

Designation
Grey/black small handle
□ 48 aluminium plate and frame
4 contacts



PR12 6502 A1 E Q48PN

NR52UQ1

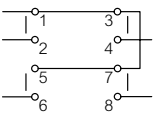


Cam switches

 Characteristics (p. 213)

► CODING SWITCH (COMPLEMENTARY BCD CODE, 0 TO 9)

No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2		X		X		X		X		X
3 - 4			X	X			X	X		
5 - 6					X			X		
7 - 8									X	X



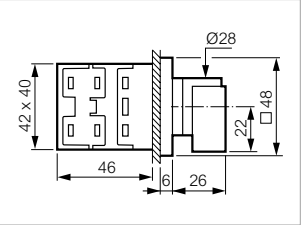
PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR53UQ1



Designation

- Grey/black small handle
- 48 aluminium plate and frame
- With complete rotation possible

4 contacts



PR12 6503 A1 E Q48PN

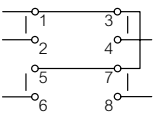
NR53UQ1

Cam switches

 Characteristics (p. 213)

► COMPLEMENTARY BCD CODE, 0 TO 9

No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2	X		X		X		X		X	
3 - 4	X	X			X	X			X	X
5 - 6	X			X					X	X
7 - 8	X							X		



PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR54UQ1

Designation

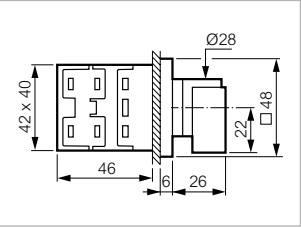
- Grey/black small handle
- 48 aluminium plate and frame
- With complete rotation possible

4 contacts



PR12 6504 A1 E Q48PN

NR54UQ1

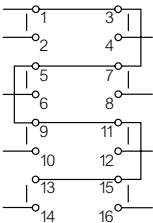


Cam switches

 Characteristics (p. 213)

► BCD CODE, 0 TO 9, + COMPLEMENTARY BCD CODE

No. of contacts	Positions									
	0	1	2	3	4	5	6	7	8	9
1 - 2		X		X		X		X		X
3 - 4			X	X			X	X		
5 - 6					X			X		
7 - 8									X	X
9 - 10	X		X		X		X		X	
11 - 12	X	X			X	X			X	X
13 - 14	X			X					X	X
15 - 16	X							X		



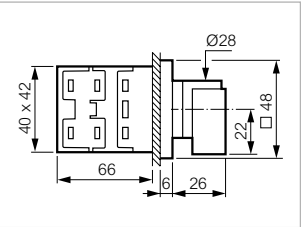
PR 12 - 16 A (AC21)

2-screw panel mount – interval: 30 mm

Cat. No.



NR55UQ1



Designation

- Grey/black small handle
- 48 aluminium plate and frame
- With complete rotation possible

8 contacts



PR12 6505 A1 E Q48PN

NR55UQ1

Cam switches



Characteristics (p. 213)

► ACCESSORIES

FIXING TOOL

Cat. No.



223520

For mini cam switches

223520

FIXING TOOL

Cat. No.



LWA0234

Fixing tool for PR 12 cam switches
ø 22 single hole front mounting

LWA0234

Technical characteristics

► MINI CAM SWITCHES

Characteristics	Data
► Thermal current I _{th}	10 A
► Rated operating current I _e	
- in AC 21	10 A
- in AC 15	2.5 A
► Motor performance in AC-3	
- 3 x 230 V	1.8 kW
- 3 x 400 V	2.2 kW
► Motor performance in AC-23	
- 1 x 230 V	0.75 kW
- 1 x 400 V	1.1 kW
- 3 x 230 V	1.8 kW
- 3 x 400 V	3 kW
► Rated insulation voltage U _i (V)	500 V
► Rated operating current in DC-1 L/R < 1ms	
- 24 V DC	10 A
- 40 V DC	6 A
- 60 V DC	2.5 A
- 110 V DC	0.7 A
- 220 V DC	0.3 A
► Rated conditional short-circuit current	3 kA
► Max. fuse rating	10 A
► Degree of protection	IP 65 IP 2x at the rear of the panel
► Wire size (flexible and rigid)	2 x 1.5 mm ² max. 1 x 0.5 mm ² min.
► Operating temperature	- 20°C to + 50°C
► Standards	IEC 60947-1 IEC 60947-3 CSA 22.2 UL 508

► CAM SWITCHES

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► For thermal current I _{th} I _c (A)	20	25	32	40	63	63	200	250
► Rated operating current for AC-21 A I _e (A) (IEC 60 947-3)								
Switching of resistive loads including moderate overloads	16	20	25	32	50	63	160	200
► Rated operating current for AC-15 A I _e (A) at 230V AC (IEC 60 947-3)								
Control of electromagnetic loads	6	8	10	12	-	-	-	-

Technical characteristics

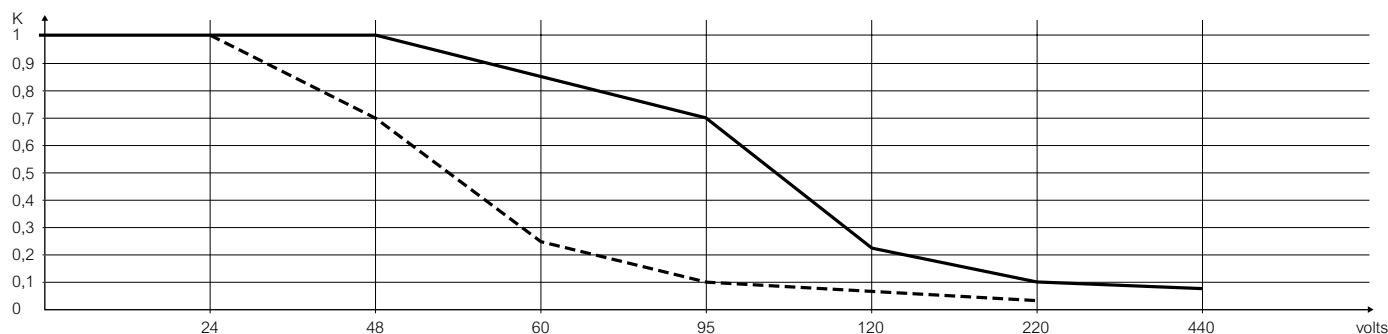
► SELECTOR SWITCHES

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► Performance in AC 23 (kW) (IEC 60 947-3) Switching of motors or other highly inductive loads								
- 3 x 230 V	4	5.5	7.5	11	15	18.5	-	-
- 3 x 400 V	7.5	11	11	11	22	25	-	-
- 3 x 500 V	5.5	11	11	11	25	25	-	-
- 3 x 690 V	4	10	10	11	18.5	22	-	-
► Performance in AC 3 (IEC 60 947-3) Control of squirrel-cage motors starting and switching off motors while running								
- In kW								
- 3 x 230 V	3	4	4	5.5	11	15	-	-
- 3 x 400 V	4	7.5	7.5	11	18.5	22	-	-
- 3 x 500 V	5.5	7.5	7.5	11	18.5	22	-	-
- 3 x 690 V	3	7.5	7.5	11	18.5	22	-	-
- In HP (for reference)								
- 3 x 230 V	4	5.5	5.5	7.5	15	20	-	-
- 3 x 400 V	5.5	10	10	15	25	30	-	-
- 3 x 500 V	7.5	10	10	15	25	30	-	-
- 3 x 690 V	4	10	10	15	25	30	-	-
► Rated insulation voltage U_i (V)	690	690	690	690	690	690	690	690
- Max. rated voltage U_e (V) IEC	690	690	690	690	690	690	690	690
- CSA (Canada)	600	600	600	600	600	600	600	600
- UL (USA)	600	600	600	600	600	600	600	600
► Rated short time withstand current I_{cw} (A) for 1 sec	300	400	420	800	1200	1500	2400	3000
► Maximum wire size (mm²)								
- rigid	4	6/4 ⁽¹⁾	6/4 ⁽¹⁾	6	16	16	ø 8 screw for eyelet	
- flexible	2.5	4	4	6	16	16	ø 8 screw for eyelet	

(1): These values correspond to terminals with jumpers

► Mechanical durability	1,250,000 operations, maximum rate 150 operations per hour
► Operating temperature limits	- 20°C to + 70°C (beyond these limits consult us)
► Rated operating current in DC-1 low inductive loads (< 1 ms)	

Rated operating current I_e (A) 24 V DC 16 20 25 32 50 63 - -
 I_e (A): rated current for breaking 1 contact. For higher voltages you must use a reduction coefficient K in the following graph



reduction coefficient K for rated operating current in DC-1 continuous current

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 127)
Mini cam switches are only available in standard versions.

► I - CHOICE OF SWITCH SIZE

TECHNICAL CHARACTERISTICS

The choice of switch size depends on the type of load to be switched
Cam switches are devices designed mainly for use with AC current
When using with DC current, you must use a reduction coefficient (see previous page)

PRICE LIST CODE

The price list code allows you (if necessary) to determine the price of the chosen switch by referring to the current price list

RATING	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
PRICE LIST CODE	N	S	T	Z	H	I	L	M

EXAMPLE

1 You are looking for a switch to control motors (3x230 V) with a power rating of 18.5 kW, what you need is a **PR 63**.

Characteristics	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
► Performance in AC 23 (kW) (IEC 60 947-3) Switching of motors or other highly inductive loads								
- 3 x 230 V	4	5.5	7.5	11	15	18.5	-	-
- 3 x 400 V	7.5	11	11	11	22	25	-	-
- 3 x 500 V	5.5	11	11	11	25	25	-	-
- 3 x 690 V	4	10	10	11	18.5	22	-	-

2 For a PR 63 the price list code is: **I**

RATING	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63	PR 125	PR 160
PRICE LIST CODE	N	S	T	Z	H	I	L	M

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 127)
Mini cam switches are only available in standard versions.

► II - CHOICE OF FUNCTION (DIAGRAM AND SWITCHING ANGLE)

FUNCTIONS

The electrical circuit diagram for separate switches can be:

- A standard diagram (see p. 207 to 238).

Examples:



- A special diagram to your own requirement (complete the form on p. 277)

EXAMPLE

- 1** The reference of the diagram for a 1-2 contact switch (p. 208) is: **1101**, and its **price list code** is: **A01Z**

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions 0 1 - - - - -	No. of poles	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2	X	1	1	$\begin{matrix} 1 \\ 0 \end{matrix} \quad \begin{matrix} 3 \\ 0 \end{matrix}$	1101	A01Z
3 - 4	X	2	2	$\begin{matrix} 1 \\ 0 \end{matrix} \quad \begin{matrix} 2 \\ 4 \end{matrix}$	1102	A02Z
5 - 6	X	3	3	$\begin{matrix} 5 \\ 0 \end{matrix} \quad \begin{matrix} 7 \\ 0 \end{matrix}$	1103	A03Z
7 - 8	X	4	4	$\begin{matrix} 5 \\ 0 \end{matrix} \quad \begin{matrix} 6 \\ 8 \end{matrix}$	1104	A04Z
9 - 10	X	5	5	$\begin{matrix} 9 \\ 0 \end{matrix} \quad \begin{matrix} 11 \\ 0 \end{matrix}$	1105	A05Z
11 - 12	X	6	6	$\begin{matrix} 9 \\ 0 \end{matrix} \quad \begin{matrix} 10 \\ 12 \end{matrix}$	1106	A06Z

- 2** For a switch, the reference of the 90° switching angle with spring return is: **AR10**, and the **price list code** is: **Y640**

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	90°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	M4	AR10*	VR11*

Spring return extra charge

* Y652 (PR12)

Y639 (PR17 26)

Y640 (PR40 63)

Number of spring
return contacts

≤ 4 (PR12 25)

≤ 2 (PR40 63)

- 3** The full catalogue number for the function is **1101 - AR10**, and its **price list code** is **(I)A01Z - Y640**

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 127)
Mini cam switches are only available in standard versions.

► II - CHOICE OF FUNCTION (DIAGRAM AND SWITCHING ANGLE)

FUNCTIONS	Diagram	Page
► Switches From 1 to 24 poles, each pole being a path for the current, the circuit being open at starting position 0, and closed at position 1		218
► 2 way change-over switches without off position From 1 to 12 poles, each pole having 2 current paths, one path is closed at position 1, the other at position 2 The two paths can be joined by a common point (link)		219
► 2 way change-over switches with off position From 1 to 12 poles, each pole having 2 current paths, one path is closed at position 1, the other at position 2. Both paths can be open at position 0 and joined by a common point (link)		220
► 3 to 8-way cam switches Each pole having respectively 3 to 8 paths for the current, the number of poles multiplied by the number of ways must be 24 or less The starting position is either 0 (diagram with OFF) or 1 (diagram without OFF) The current paths of the same pole are connected together by links		221
► Grouping switches From 2 to 4 ways with or without starting position at 0, each pole having respectively 2 to 4 current paths which close consecutively and remain closed on the following positions, thus grouping 2 to 4 elements The current paths of the same pole are connected together by links		233
► Instrument switches For ammeters wired without a CT or with several CTs connected on the corresponding circuits The CTs can be mounted in series, with a common point or independently, they are always short-circuited when not feeding the ammeters		236 236
For voltmeters wired into 3-phase networks with or without neutral		238
► Motor control switches For 3-phase asynchronous motors with Y - ▲ starting, with several speeds, with or without reversing		239
► Switches for coupling 2 or 3 resistors		245
► Coding switches Code BCD and additional BCD		247

Separate cam switches

SWITCHES

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	-	-	-	-	-	-	-	-					
1 -2 3 -4	X										1	1		1101	A01Z
	X										2	2		1102	A02Z
5 -6 7 -8	X										3	3		1103	A03Z
	X										4	4		1104	A04Z
9 -10 11 -12	X										5	5		1105	A05Z
	X										6	6		1106	A06Z
13 -14 15 -16	X										7	7		1107	A07Z
	X										8	8		1108	A08Z
17 -18 19 -20	X										9	9		1109	A09Z
	X										10	10		1110	A10Z
21 -22 23 -24	X										11	11		1111	A11Z
	X										12	12		1112	A12Z
25 -26 27 -28	X										13	13		1113	A13Z
	X										14	14		1114	A14Z
29 -30 31 -32	X										15	15		1115	A15Z
	X										16	16		1116	A16Z
33 -34 35 -36	X										17	17		1117	A17Z
	X										18	18		1118	A18Z
37 -38 39 -40	X										19	19		1119	A19Z
	X										20	20		1120	A20Z
41 -42 43 -44	X										21	21		1121	A21Z
	X										22	22		1122	A22Z
45 -46 47 -48	X										23	23		1123	A23Z
	X										24	24		1124	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	90°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	M4	AR10*	VR11*
Cat. No. B1	B8	B6	B4			
Cat. No. V8			D4			

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 26)
 Y640 (PR40 63)

Number of spring return contacts
 ≤ 4 (PR12 26)
 ≤ 2 (PR40 63)

Separate cam switches

► 2-WAY CHANGE-OVER SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4	X	1	2		2251	A02Z
5 - 6 7 - 8	X	2	4		2252	A04Z
9 - 10 11 - 12	X	3	6		2253	A06Z
13 - 14 15 - 16	X	4	8		2254	A08Z
17 - 18 19 - 20	X	5	10		2255	A10Z
21 - 22 23 - 24	X	6	12		2256	A12Z
25 - 26 27 - 28	X	7	14		2257	A14Z
29 - 30 31 - 32	X	8	16		2258	A16Z
33 - 34 35 - 36	X	9	18		2259	A18Z
37 - 38 39 - 40	X	10	20		2260	A20Z
41 - 42 43 - 44	X	11	22		2261	A22Z
45 - 46 47 - 48	X	12	24		2262	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	90°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	D4	AR10*	VR11*
Cat. No. B1	B8	B6	B4			
Cat. No.	V8		M4			

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

Number of spring return contacts
 ≤ 4 (PR12 → 26)
 ≤ 2 (PR40 → 63)

Separate cam switches

► 2-WAY CHANGE-OVER SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4	X X	1	2		2201	A02Z
5 - 6 7 - 8	X X	2	4		2202	A04Z
9 - 10 11 - 12	X X	3	6		2203	A06Z
13 - 14 15 - 16	X X	4	8		2204	A08Z
17 - 18 19 - 20	X X	5	10		2205	A10Z
21 - 22 23 - 24	X X	6	12		2206	A12Z
25 - 26 27 - 28	X X	7	14		2207	A14Z
29 - 30 31 - 32	X X	8	16		2208	A16Z
33 - 34 35 - 36	X X	9	18		2209	A18Z
37 - 38 39 - 40	X X	10	20		2210	A20Z
41 - 42 43 - 44	X X	11	22		2211	A22Z
45 - 46 47 - 48	X X	12	24		2212	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	Misc	Spring return	Spring return	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	A4	J4	AR23*	AR25*	AR32*	BR19*	CR12*
Cat. No. B1	B8	B6	B4	M6	CR13*	CR14*	CR19*		
Cat. No. C1	C8	C6	C4	V8	CR20*	VR12*	VR13*		

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

Number of spring
 return contacts
 ≤ 4 (PR12 → 26)
 ≤ 2 (PR40 → 63)

Separate cam switches

3-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1-2 3-4 7-8	X X X	1	3		2351	A03Z
5-6 9-10 11-12	X X X	2	6		2352	A06Z
13-14 15-16 19-20	X X X	3	9		2353	A09Z
17-18 21-22 23-24	X X X	4	12		2354	A12Z
25-26 27-28 31-32	X X X	5	15		2355	A15Z
29-30 33-34 35-36	X X X	6	18		2356	A18Z
37-38 39-40 43-44	X X X	7	21		2357	A21Z
41-42 45-46 47-48	X X X	8	24		2358	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	60°	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	A4	M6	AR23*	AR25*	
Cat. No. B1	B8	B6	B4		BR19*		
Cat. No. C1	C8	C6			CR12*	CR13*	CR14*

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

Number of spring
 return contacts
 ≤ 4 (PR12 → 26)
 ≤ 2 (PR40 → 63)

Separate cam switches

► 3-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1-2 3-4 7-8	X X X	1	3		2301	A03Z
5-6 9-10 11-12	X X X	2	6		2302	A06Z
13-14 15-16 19-20	X X X	3	9		2303	A09Z
17-18 21-22 23-24	X X X	4	12		2304	A12Z
25-26 27-28 31-32	X X X	5	15		2305	A15Z
29-30 33-34 35-36	X X X	6	18		2306	A18Z
37-38 39-40 43-44	X X X	7	21		2307	A21Z
41-42 45-46 47-48	X X X	8	24		2308	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	45°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	V8	BR15*	VR16*
Cat. No. B1	B8	B6	B4			
Cat. No. M8	J6					

Spring return extra charge
 * Y652 (PR12)
 Y639 (PR17 → 26)
 Y640 (PR40 → 63)

Number of spring
 return contacts
 ≤ 4 (PR12 → 26)
 ≤ 2 (PR40 → 63)

Separate cam switches

► 4-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8	X X X X	1	4		2451	Ao4Z
9 -10 11 -12 13 -14 15 -16	X X X X	2	8		2452	Ao8Z
17 -18 19 -20 21 -22 23 -24	X X X X	3	12		2453	A12Z
25 -26 27 -28 29 -30 31 -32	X X X X	4	16		2454	A16Z
33 -34 35 -36 37 -38 39 -40	X X X X	5	20		2455	A20Z
41 -42 43 -44 45 -46 47 -48	X X X X	6	24		2456	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	90°	45°	Spring return	Spring return
Cat. No. A1	A8	A6	A4	V8	AR30*	
Cat. No. B1	B8	B6	B4		BR15*	BR41*
Cat. No. V1	M8				VR16*	VR28*

Spring return extra charge

* Y652 (PR12)
Y639 (PR17 → 26)
Y640 (PR40 → 63)

Number of spring return contacts

≤ 4 (PR12 → 26)
≤ 2 (PR40 → 63)

Separate cam switches

► 4-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 4 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8	X X X X	1	4		2401	Ao4Z
9 -10 11 -12 13 -14 15 -16	X X X X	2	8		2402	Ao8Z
17 -18 19 -20 21 -22 23 -24	X X X X	3	12		2403	A12Z
25 -26 27 -28 29 -30 31 -32	X X X X	4	16		2404	A16Z
33 -34 35 -36 37 -38 39 -40	X X X X	5	20		2405	A20Z
41 -42 43 -44 45 -46 47 -48	X X X X	6	24		2406	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°	45°	Spring return	Spring return	Spring return
Cat. No. A1	A8	A6	J8	AR38*		
Cat. No. B1	B8	B6				
Cat. No. C1	C8	C6	CR27*	CR34*	CR40*	

Spring return extra charge

* Y652 (PR12)
Y639 (PR17 → 26)
Y640 (PR40 → 63)

Number of spring

return contacts
≤ 4 (PR12 → 26)
≤ 2 (PR40 → 63)

Separate cam switches

► 5-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 5 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8 9 -10	X X X X X	1	5		2551	A05Z
11 -12 13 -14 15 -16 17 -18 19 -20	X X X X X	2	10		2552	A10Z
21 -22 23 -24 25 -26 27 -28 29 -30	X X X X X	3	15		2553	A15Z
31 -32 33 -34 35 -36 37 -38 39 -40	X X X X X	4	20		2554	A20Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30° 45° 60° Spring return



Cat. No. A1



A8



A6



Cat. No. B1



B8



B6



BR27*



Cat. No. V8

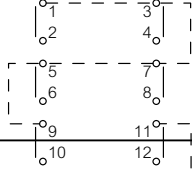
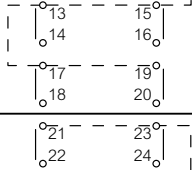
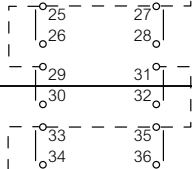
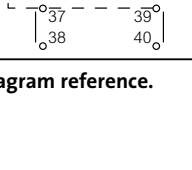
Spring return extra charge
* Y652 (PR12)
Y639 (PR17 → 26)
Y640 (PR40 → 63)

Number of spring
return contacts
≤ 4 (PR12 → 26)
≤ 2 (PR40 → 63)

Separate cam switches

► 5-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 4 5 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8 9 -10	X X X X X	1	5		2501	A05Z
11 -12 13 -14 15 -16 17 -18 19 -20	X X X X X	2	10		2502	A10Z
21 -22 23 -24 25 -26 27 -28 29 -30	X X X X X	3	15		2503	A15Z
31 -32 33 -34 35 -36 37 -38 39 -40	X X X X X	4	20		2504	A20Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°
		
Cat. No. A1	A8	A6
		
Cat. No. B1	B8	B6
		
Cat. No. M1	V6	

Separate cam switches

► 6-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 5 6 - - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8 9 -10 11 -12	X X X X X X	1	6		2651	Ao6Z
13 -14 15 -16 17 -18 19 -20 21 -22 23 -24	X X X X X X	2	12		2652	A12Z
25 -26 27 -28 29 -30 31 -32 33 -34 35 -36	X X X X X X	3	18		2653	A18Z
37 -38 39 -40 41 -42 43 -44 45 -46 47 -48	X X X X X X	4	24		2654	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°	60°
Cat. No. A1	A8	A6
Cat. No. B1	B8	B6
Cat. No. M1		

Separate cam switches

► 6-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions o 1 2 3 4 5 6 - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 -2 3 -4 5 -6 7 -8 9 -10 11 -12	X X X X X X	1	6		2601	Ao6Z
13 -14 15 -16 17 -18 19 -20 21 -22 23 -24	X X X X X X	2	12		2602	A12Z
25 -26 27 -28 29 -30 31 -32 33 -34 35 -36	X X X X X X	3	18		2603	A18Z
37 -38 39 -40 41 -42 43 -44 45 -46 47 -48	X X X X X X	4	24		2604	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°
Cat. No. A1	A8
Cat. No. B1	B8
Cat. No. J1	C8

Separate cam switches

► 7-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 5 6 7 - - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 15 - 16	X X X X X X X	1	7		2751	A07Z
13 - 14 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28	X X X X X X X	2	14		2752	A14Z
29 - 30 31 - 32 33 - 34 35 - 36 37 - 38 39 - 40 43 - 44	X X X X X X X	3	21		2753	A21Z
41 - 42 45 - 46 47 - 48						

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°

45°



Cat. No. A1



A8



Cat. No. B1



B8



Cat. No. C8

Separate cam switches

► 7-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 4 5 6 7 - - -	No. of poles	No. of contacts	Connection terminals +* links	Diagram* reference	Diagram price list code
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 15 - 16	X X X X X X X	1	7		2701	A07Z
13 - 14 17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28	X X X X X X X	2	14		2702	A14Z
29 - 30 31 - 32 33 - 34 35 - 36 37 - 38 39 - 40 43 - 44	X X X X X X X	3	21		2703	A21Z
41 - 42 45 - 46 47 - 48						

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°	45°
Cat. No. A1	A8
Cat. No. B1	B8

Separate cam switches

► 8-WAY SWITCHES WITHOUT OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 1 2 3 4 5 6 7 8 - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16	X X X X X X X X	1	8		2851	A08Z
17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 - 32	X X X X X X X X	2	16		2852	A16Z
33 - 34 35 - 36 37 - 38 39 - 40 41 - 42 43 - 44 45 - 46 47 - 48	X X X X X X X X	3	24		2853	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°

45°



Cat. No. A1

A8



Cat. No. B1

B8

For more than 8 ways, please contact us.

Separate cam switches

► 8-WAY SWITCHES WITH OFF

DIAGRAM (REFERENCE AND PRICE LIST CODE) (with link for common point)

Contact Nos.	Positions 0 1 2 3 4 5 6 7 8 - - -	No. of poles	No. of contacts	Connection terminals* + links	Diagram* reference	Diagram price list code
1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 11 - 12 13 - 14 15 - 16	X X X X X X X X	1	8		2801	A08Z
17 - 18 19 - 20 21 - 22 23 - 24 25 - 26 27 - 28 29 - 30 31 - 32	X X X X X X X X	2	16		2802	A16Z
33 - 34 35 - 36 37 - 38 39 - 40 41 - 42 43 - 44 45 - 46 47 - 48	X X X X X X X X	3	24		2803	A24Z

*For diagrams without a link, replace number 2 by number 1 at the beginning of the diagram reference.

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

30°



Cat. No. A1



Cat. No. B1



Cat. No. C1

For more than 8 ways, please contact us.

Separate cam switches

► GROUPING SWITCHES FOR 2 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions												No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code
	0	1	2	-	-	-	-	-	-	-	-	-				with off	without off	
1 - 2 3 - 4	X	X											1	2		5201	5251	A02Z
5 - 6 7 - 8	X	X											2	4		5202	5252	A04Z
9 - 10 11 - 12	X	X											3	6		5203	5253	A06Z
13 - 14 15 - 16	X	X											4	8		5204	5254	A08Z
17 - 18 19 - 20	X	X											5	10		5205	5255	A10Z
21 - 22 23 - 24	X	X											6	12		5206	5256	A12Z
25 - 26 27 - 28	X	X											7	14		5207	5257	A14Z
29 - 30 31 - 32	X	X											8	16		5208	5258	A16Z
33 - 34 35 - 36	X	X											9	18		5209	5259	A18Z
37 - 38 39 - 40	X	X											10	20		5210	5260	A20Z
41 - 42 43 - 44	X	X											11	22		5211	5261	A22Z
45 - 46 47 - 48	X	X											12	24		5212	5262	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

30°	45°	60°	90°
Cat. No. A1	A8	A6	A4
Cat. No. B1	B8	B6	B4

Diagram without off position

30°	45°	60°	90°
A1	A8	A6	A4
B1	B8	B6	B4

Cat. No. V8	M6

Separate cam switches

► GROUPING SWITCHES FOR 3 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions										No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price list code
	0	1	2	3	-	-	-	-	-	-				with off	without off	
1-2 3-4 7-8	X	X									1	3		5301	5351	A03Z
5-6 9-10 11-12		X									2	6		5302	5352	A06Z
13-14 15-16 17-18	X	X									3	9		5303	5353	A09Z
19-20 21-22 23-24		X									4	12		5304	5354	A12Z
25-26 27-28 29-30	X	X									5	15		5305	5355	A15Z
31-32 33-34 35-36		X									6	18		5306	5356	A18Z
37-38 39-40 41-42	X	X									7	21		5307	5357	A21Z
43-44 45-46 47-48		X									8	24		5308	5358	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

Diagram without off position

Diagram with off position				Diagram without off position			
30°	45°	60°	90°	30°	45°	60°	90°
Cat. No. A1	A8	A6	A4	A1	A8	A6	A4
Cat. No. B1	B8	B6	B4	B1	B8	B6	B4
Cat. No. V8 (45°)	M8			V8	M6		

Separate cam switches

► GROUPING SWITCHES FOR 4 ELEMENTS

DIAGRAM (REFERENCE AND PRICE LIST CODE)

Contact Nos.	Positions	No. of poles	No. of contacts	Connection terminals + links	Diagram reference		Diagram price
	0 1 2 3 4 - - - - -				with off	without off	list code
1 - 2 3 - 4 5 - 6 7 - 8	X — X X — X X — X X	1	4		5401	5451	Ao4Z
9 - 10 11 - 12 13 - 14 15 - 16	X — X X — X X — X X	2	8		5402	5452	Ao8Z
17 - 18 19 - 20 21 - 22 23 - 24	X — X X — X X — X X	3	12		5403	5453	A12Z
25 - 26 27 - 28 29 - 30 31 - 32	X — X X — X X — X X	4	16		5404	5454	A16Z
33 - 34 35 - 36 37 - 38 39 - 40	X — X X — X X — X X	5	20		5405	5455	A2oZ
41 - 42 43 - 44 45 - 46 47 - 48	X — X X — X X — X X	6	24		5406	5456	A24Z

SWITCHING ANGLE (REFERENCE AND PRICE LIST CODE)

Diagram with off position

30°	45°	60°
Cat. No. A1	A8	A6

Cat. No. B1	B8	B6

Diagram without off position

30°	45°	60°	90°
A1	A8	A6	A4

B1	B8	B6	B4

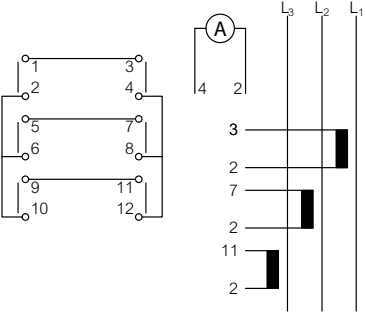
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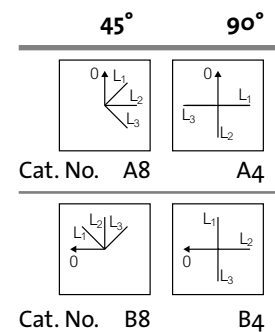
Separate cam switches

► INSTRUMENT SWITCHES: AMMETER

MEASUREMENT ON 3 CIRCUITS L_1 - L_2 - L_3 WITH 1 AMMETER AND 3 CTS WITH COMMON POINT

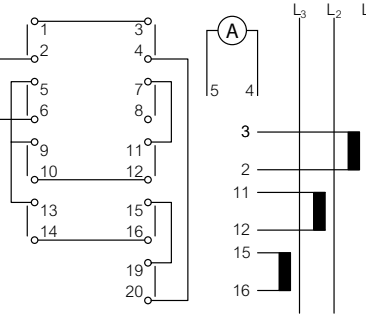
SWITCHING ANGLE

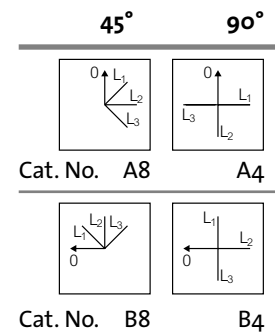
Contact Nos.	Positions o: L ₁ L ₂ L ₃ - - - -	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12	X X X X X X X X X X X X	6		8151	Ao6Z



MEASUREMENT ON 3 CIRCUITS L_1 - L_2 - L_3 WITH 1 AMMETER AND 3 CTS WITHOUT COMMON POINT

SWITCHING ANGLE

Contact Nos.	Positions o: L ₁ L ₂ L ₃ - - - -	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 19-20	X X X X X X X X X X X X X X X X X X	9		8157	Ao9Z



Separate cam switches

► INSTRUMENT SWITCHES: AMMETER (CONTINUED)

MEASUREMENT ON 3 CIRCUITS L₁-L₂-L₃ WITH 1 AMMETER, DIRECT READING WITHOUT CT SWITCHING ANGLE

Contact Nos.	Positions o:L ₁ :L ₂ :L ₃ : - : - : - : -	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18	X X X X X X X X X	9		8164	A09Z

90°

Cat. No. A4

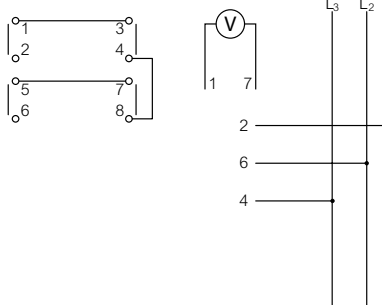
Cat. No. B4

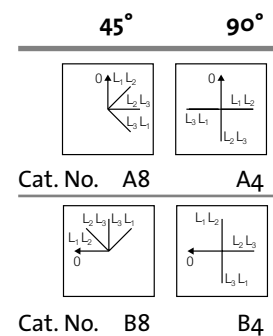
Separate cam switches

► INSTRUMENT SWITCHES: VOLTMETER

MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES

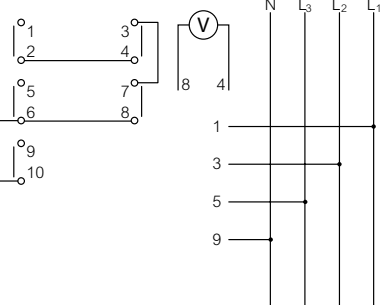
SWITCHING ANGLE

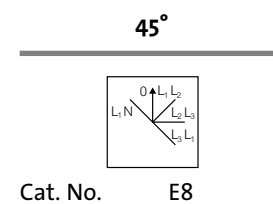
Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	L ₁	L ₂	L ₃	-	-				
1-2		X		X			4		8351	Ao4Z
3-4			X							
5-6		X		X						
7-8				X						



MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES + BETWEEN 1 PHASE AND NEUTRAL

SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	L ₁	L ₂	L ₃	-	-	L ₁ N				
1-2		X		X			X	5		8356	Ao5Z
3-4			X								
5-6		X		X							
7-8			X								
9-10		X					X				

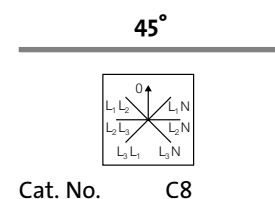


Separate cam switches

► INSTRUMENT SWITCHES: VOLTMETER (CONTINUED)

MEASUREMENT ON 3-PHASE CIRCUIT WITH 1 VOLTMETER, READING BETWEEN PHASES AND BETWEEN PHASES AND NEUTRAL SWITCHING ANGLE

Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	L ₁	L ₂	L ₃	N	-				
1-2	X						6		8357	Ao6Z
3-4	X	X	X							
5-6		X								
7-8			X							
9-10				X						
11-12					X					

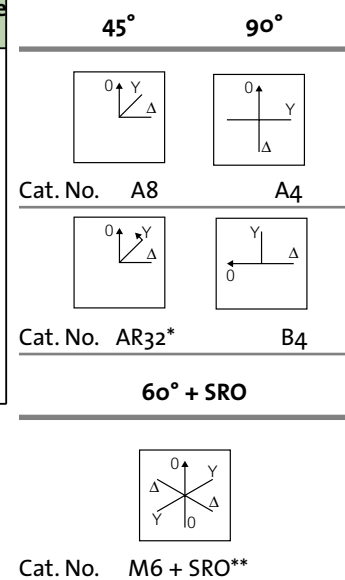


► 1 SPEED STARTER, 1 WAY - 3 PHASE MOTOR

Y Δ STARTER, ONE WAY, FOR SINGLE SPEED MOTOR

SWITCHING ANGLE

Contact Nos.	Positions						No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	Y	Δ	-	-	-				
1-2	X	X					8		9551	Ao8Z
3-4		X								
5-6	X	X								
7-8	X	X								
9-10		X								
11-12		X								
13-14	X	X								
15-16	X	X								



* Y652, PR12
Y639, PR17 → 26
Y640, PR40 → 160

** Y649, PR12
Y642, PR17 → 26
Y643, PR40 → 160

Separate cam switches

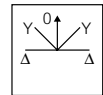
► 3-PHASE, 1-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

1 SPEED STARTER, FORWARD/REVERSE - 3 PHASE MOTOR

SWITCHING ANGLE

Contact Nos.	FWDP	Positions	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X	X		10		9153	A10Z
3-4			X				
5-6			X				
7-8	X	X					
9-10			X				
11-12			X				
13-14	X	X					
15-16			X				
17-18	X	X					
19-20			X				

45°



Cat. No. C8

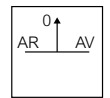
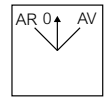
3 PHASE MOTOR SWITCH, FORWARD/REVERSE, 1 SPEED

*SWITCHING ANGLE

Contact Nos.	FWDP	Positions	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2			X	5		9151	A05Z
3-4	X						
5-6	X						
7-8			X				
9-10	X		X				

45°

90°



Cat. No. C8

C4

* AR = REV
AV = FWD

Separate cam switches

3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES

2 SPEEDS, 1 WAY WITHOUT OFF - 3 PHASE DALHANDER MOTOR (not suitable as starter)

* SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16	Δ YY - - - - -	8		9354	Ao8Z

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4
Cat. No. D4	M4

2 SPEEDS, 1 WAY WITH OFF - 3 PHASE DALHANDER MOTOR

* SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16	o Δ YY - - - - -	8		9552	Ao8Z

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4
Cat. No. C8	C4

* Δ = PV
YY = GV

Separate cam switches

3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

2 SPEEDS, FORWARD/REVERSE - 3 PHASE DALHANDER MOTOR

* SWITCHING ANGLE

Contact Nos.	FWD Positions	REV	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X	X	12		9154	A12Z
3-4		X				
5-6		X				
7-8	X					
9-10	X	X				
11-12	X	X				
13-14	X	X				
15-16	X	X				
17-18	X	X				
19-20	X	X				
21-22	X	X				
23-24	X	X				

Separate cam switches

► 3-PHASE, 2-SPEED MOTOR CONTROL SWITCHES (CONTINUED)

STARTER, FORWARD/REVERSE, FOR 2 SPEED MOTOR, 2 COILS ΔA, ΔB OPEN

* SWITCHING ANGLE

Contact Nos.	FWD Positions O LS HS - - HS LS	REV HS LS	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X X		12		9156	A12Z
3-4		X X				
5-6		X X				
7-8	X X					
9-10	X	X				
11-12	X	X				
13-14	X	X				
15-16	X	X				
17-18	X	X				
19-20	X	X				
21-22	X	X				
23-24	X	X				

45°



Cat. No. C8

STARTER, FORWARD/REVERSE, FOR 2 SPEED MOTOR, 2 COILS YA, YB OPEN

* SWITCHING ANGLE

Contact Nos.	FWD Positions O LS HS - - HS LS	REV HS LS	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X X		10		9163	A10Z
3-4		X X				
5-6		X X				
7-8	X X					
9-10	X	X				
11-12	X	X				
13-14	X	X				
15-16	X	X				
17-18	X	X				
19-20	X	X				

45°



Cat. No. C8

For function
1 way,
see page 210,
ref. diagram 2203,
diagram price list code
Ao6Z

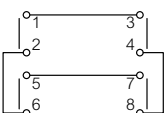
* AR = REV
AV = FWD

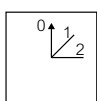
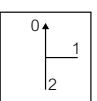
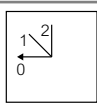
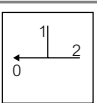
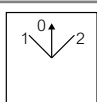
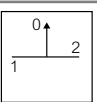
Separate cam switches

► MOTOR CONTROL SWITCHES - D.C. CURRENT OR SINGLE PHASE

POLARITY OR PHASE CHANGE-OVER WITH OFF POSITION (D.C. current)

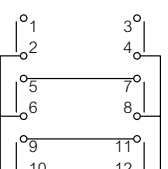
SWITCHING ANGLE

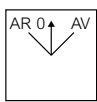
Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8	0 1 2 - - - -	4		9051	Ao4Z

45°	90°
	
Cat. No. A8	A4
	
Cat. No. B8	B4
	
Cat. No. C8	C4

FORWARD/REVERSE SWITCH WITH OFF POSITION FOR 1-SPEED SINGLE PHASE MOTOR WITH PERMANENT CONDENSER (4 WIRES)

SWITCHING ANGLE

Contact Nos.	Positions	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2 3-4 5-6 7-8 9-10 11-12	0 FWD - - - - REV	6		9057C8	Ao6Z

45°

Cat. No. C8

* AR = REV
AV = FWD

Separate cam switches

SWITCHES FOR COUPLING 2 RESISTORS

COUPLING OF 2 RESISTORS WITH COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

Contact Nos.	o	1	2	3	-	-	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X	X						4		7202	Ao4Z
3-4				X								
5-6			X	X								
7-8		X										
										Pos. a b o off off 1 R ₁ R ₁ +R ₂ series 2 R ₂ R ₂ 3 R ₁ +R ₂ series R ₁		

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

COUPLING OF 2 RESISTORS WITH COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

Contact Nos.	o	1	2	3	-	-	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X	X	X					4		7204	Ao4Z
3-4				X								
5-6			X	X								
7-8		X										
										Pos. a b o off off 1 R ₁ +R ₂ series R ₁ 2 R ₁ R ₁ +R ₂ series 3 R ₁ +R ₂ // R ₂		

45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

FUNCTION: COUPLING OF 2 RESISTORS WITHOUT COMMON POINT, 2-POLE SWITCHING

SWITCHING ANGLE

Contact Nos.	o	1	2	3	-	-	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X		X					4		7207	Ao4Z
3-4			X	X								
5-6		X		X								
7-8			X	X								
										Pos. Function o off 1 R ₁ 2 R ₂ 3 R ₁ +R ₂ //		

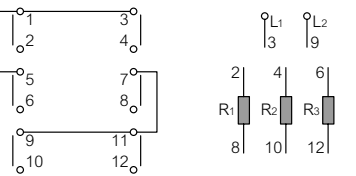
45°	90°
Cat. No. A8	A4
Cat. No. B8	B4

Separate cam switches

SWITCHES FOR COUPLING 3 RESISTORS

COUPLING OF 3 RESISTORS WITHOUT COMMON POINT, 2-POLE SWITCHING

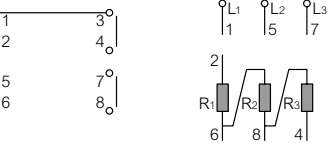
SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
	0	1	2	3	-	-	-				
1 -2		X	X	X				6		7211	Ao6Z
3 -4			X	X							
5 -6				X							
7 -8		X	X	X							
9 -10			X	X							
11 -12				X							
Pos. Function											
0 off											
1 R ₁											
2 R ₁ +R ₂ //											
3 R ₁ +R ₂ +R ₃ //											

	45°	90°
Cat. No.	A8	A4
Cat. No.	B8	B4

COUPLING OF 3 RESISTORS, 3-PHASE NETWORK, TOTAL CUT-OFF AT OFF

SWITCHING ANGLE

Contact Nos.	Positions							No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code										
	0	1	2	3	-	-	-														
1-2		X	X	X				4		7607	Ao4Z										
3-4				X																	
5-6		X	X	X																	
7-8			X	X																	
									<table><tr><th>Pos.</th><th>Function</th></tr><tr><td>0</td><td>off</td></tr><tr><td>1</td><td>R₁ (L₁/L₂)</td></tr><tr><td>2</td><td>R₁ (L₁/L₂), R₂ (L₂/L₃)</td></tr><tr><td>3</td><td>R₁, R₂, R₃ in ?</td></tr></table>	Pos.	Function	0	off	1	R ₁ (L ₁ /L ₂)	2	R ₁ (L ₁ /L ₂), R ₂ (L ₂ /L ₃)	3	R ₁ , R ₂ , R ₃ in ?		
Pos.	Function																				
0	off																				
1	R ₁ (L ₁ /L ₂)																				
2	R ₁ (L ₁ /L ₂), R ₂ (L ₂ /L ₃)																				
3	R ₁ , R ₂ , R ₃ in ?																				

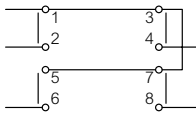
	45°	90°
Cat. No.	A8	A4
Cat. No.	B8	B4

Separate cam switches

CODING SWITCHES

CODING SWITCH WITH OFF

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	10	11	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X		X		X		X		X		X	4		6501	Ao4Z
3-4			X	X			X	X			X	X				
5-6					X	X			X	X						
7-8							X	X			X	X				

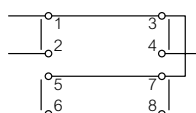
30°



Cat. No. A1

CODING SWITCH WITHOUT OFF

SWITCHING ANGLE

Contact Nos.	1	2	3	4	5	6	7	8	9	10	11	12	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2	X		X		X		X		X		X		4		6502	Ao4Z
3-4		X	X			X	X			X	X					
5-6				X	X							X				
7-8						X	X				X	X				

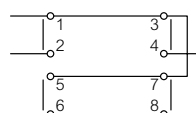
30°



Cat. No. A1

CODING SWITCH, BCD CODE, 0 to 9 (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1-2		X		X		X		X		X			4		6503	Ao4Z
3-4			X	X			X	X								
5-6					X	X										
7-8							X	X			X	X				

30°



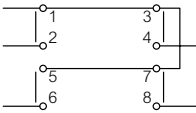
Cat. No. A1

Separate cam switches

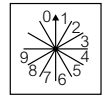
► CODING SWITCHES (CONTINUED)

COMPLEMENTARY BCD CODE, 0 TO 9 (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2	X		X		X		X		X				4		6504	Ao4Z
3 - 4	X-X				X-X				X-X							
5 - 6	X		X						X-X							
7 - 8	X						X									

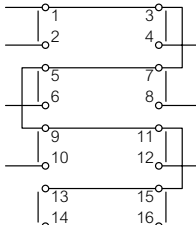
30°



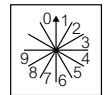
Cat. No. A1

BCD CODE, 0 TO 9 + COMPLEMENTARY BCD CODE (with complete rotation possible)

SWITCHING ANGLE

Contact Nos.	0	1	2	3	4	5	6	7	8	9	-	-	No. of contacts	Connection terminals + links	Diagram reference	Diagram price list code
1 - 2	X		X		X		X		X				8		6505	Ao8Z
3 - 4			X-X				X-X									
5 - 6					X		X									
7 - 8									X-X							
9 - 10	X		X		X		X		X							
11 - 12	X-X				X-X				X-X							
13 - 14	X		X						X-X							
15 - 16	X						X									

30°



Cat. No. A1

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 126)
Mini cam switches are only available in standard formats.

► III - CHOICE OF MOUNTING

	Image	Page
► 2-screw panel mount		250
Intervals 30 or 50		250
Intervals 35 or 36, 48, 54, 68		250
► Single hole mounting Ø 22		251
With plate frame and handle		251
With key		251
with selector switch		252
► Single hole mounting Ø 30		253
One-piece with handle		253
One-piece with key		253
► Rear mounting		254
Intervals 48 or 68		254
On DIN rail		254
► Dimensions		255
Front and rear mounting (E and S)		255
Front mounting (EZ)		257
Single hole mounting Ø 22 (E N48MD50)		259
Single hole mounting Ø 22 (E C21XXXX)		259
Single hole mounting Ø 30 (E 30PN)		260
Single hole mounting Ø 30 (E 30C)		261
Rear mounting on DIN rail (SX)		262

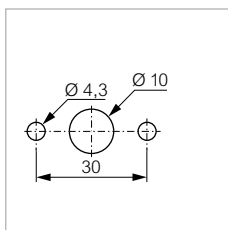
Separate cam switches

Dimensions (p. 255)

FRONT MOUNTING

2 SCREWS - 30 OR 50 MM INTERVAL

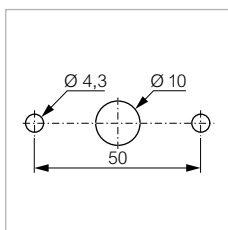
Cat. No.



For PR 12 to PR 160

Price list code

PR 12	-	E
PR 17	-	E
PR 21	-	E
PR 26	-	E

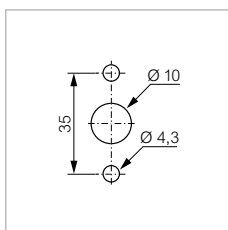


PR 40	-	E
PR 63	-	E
PR 125	-	E
PR 160	-	E

For foolproof shaft profile, add D to the type of mounting code (ED)

2 SCREWS - 35 MM INTERVAL OR □ 36, 48, 54 OR 68

Cat. No.

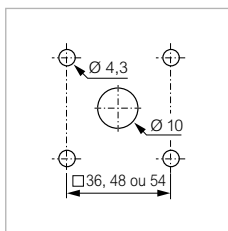


For PR 12 to PR 160

Price list code

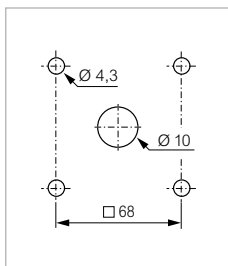
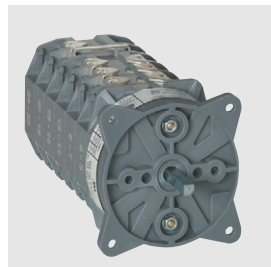
35 mm interval

PR 12	Y533	EZ35
PR 17	Y523	EZ35
PR 21	Y524	EZ35
PR 26	Y525	EZ35



□ 36, 48, or 54 interval (see end of code)

PR 12	Y654	EZ36
PR 17	Y523	EZ36 or EZ48
PR 21	Y524	EZ36 or EZ48
PR 26	Y525	EZ36 or EZ54



□ 68 mm interval

PR 40	Y527	EZ68
PR 63	Y528	EZ68
PR 125	Y531	EZ68
PR 160	Y532	EZ68

For foolproof shaft profile, add D to the type of mounting code (eg: EZD35)

Separate cam switches

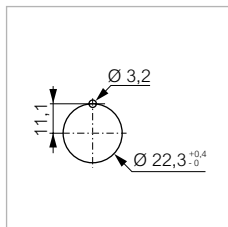
Dimensions (p. 259)

► ONE-HOLE MOUNTING Ø 22

WITH PLATE, FRAME AND HANDLE

For PR 12

Cat. No.



Max. number of contacts accepted: 12

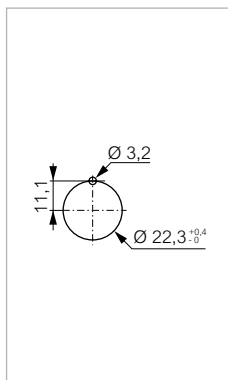
Price list code

☐ 48 legend plate with handle	N48MD50	N48MD50
☐ 48 legend plate with standard handle and aluminium legend plate	N480MD50	N480MD50

SELECTOR SWITCH WITH KEY

For PR 12

Cat. No.



Supplied with 2 keys n°455
Max. number of contacts accepted: 8
Legend plate can be used (p. 281)

Price list code

Key lock 90/45° for □ 5 mm shaft

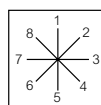
Key free in:

1-3-5-7	C21RC00	C21RC00
3-7	C21RD00	C21RD00
1-5	C21RE00	C21RE00
2-4-6-8	C21RF00	C21RF00
2-6	C21RG00	C21RG00
4-8	C21RH00	C21RH00



☐ 48 plate, key free in:

1-3-5-7	C21RC48	C21RC48
3-7	C21RD48	C21RD48
1-5	C21RE48	C21RE48
2-4-6-8	C21RF48	C21RF48
2-6	C21RG48	C21RG48
4-8	C21RH48	C21RH48



Key lock 60/30° for □ 5 mm shaft

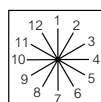
Key free in:

1-3-5-7-9-11	C21RJ00	C21RJ00
1-7	C21RK00	C21RK00
3-9	C21RQ00	C21RQ00
5-11	C21RR00	C21RR00
2-4-6-8-10-12	C21RL00	C21RL00
4-10	C21RM00	C21RM00
2-8	C21RS00	C21RS00
6-12	C21RT00	C21RT00



☐ 48 plate, key free in:

1-3-5-7-9-11	C21RJ48	C21RJ48
1-7	C21RK48	C21RK48
3-9	C21RQ48	C21RQ48
5-11	C21RR48	C21RR48
2-4-6-8-10-12	C21RL48	C21RL48
4-10	C21RM48	C21RM48
2-8	C21RS48	C21RS48
6-12	C21RT48	C21RT48



- For other bezels, replace 21 in the reference and the price list code with:

- 22 - black plastic
- 23 - grey plastic
- 24 - brilliant chromed brass
- 25 - brilliant chromed plastic

Separate cam switches

Dimensions (p. 259)

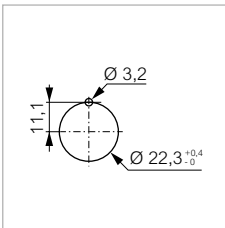
► ONE-HOLE MOUNTING Ø 22 (CONTINUED)

WITH SELECTOR SWITCH

For PR 12

Cat. No.





Max. number of contacts accepted: 12

Price list code

Handle

● Red	C21RA01	C21RA01
● Green	C21RA02	C21RA02
● Black	C21RA03	C21RA03
● Grey	C21RA08	C21RA08

Long handle

● Red	C21RB01	C21RB01
● Green	C21RB02	C21RB02
● Black	C21RB03	C21RB03
● Grey	C21RB08	C21RB08

- For other bezels, replace 21 in the reference and the price list code with:

- 22 - black plastic
- 23 - grey plastic
- 24 - brilliant chromed brass
- 25 - brilliant chromed plastic
- 26 - matt anodised aluminium

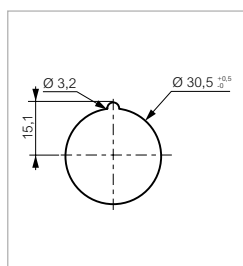
Separate cam switches

Dimensions (p. 260-261)

► SINGLE HOLE MOUNTING Ø 30

ONE-PIECE SELECTOR SWITCH

Cat. No.



The block consists of:

- 1 head and a plastic bezel enabling single hole Ø 30 mounting
 - a grey/black small handle
- Max. number of contacts accepted: 24

Price list code

PR 17	302PN	30PN
PR 21	303PN	30PN
PR 26	304PN	30PN

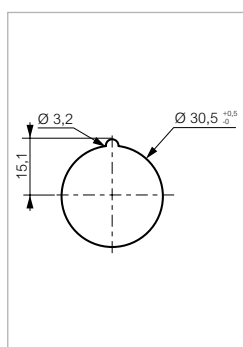
Extra charge for chrome brass bezel (instead of plastic)

Y644⁽¹⁾

TO BE SPECIFIED

⁽¹⁾ To be added at the end of the reference and price list code

ONE-PIECE KEY OPERATED



The block consists of:

- 1 head and a plastic bezel enabling single hole Ø 30 mounting
- 2 keys no. 455 or 1424 A to be stated on order

The key acts as an operating handle

The key is always captive:

in positions 2-4-6-8

The key is free:

in positions 1-3-5-7 (form p. 287)

The key can be captive:

in positions 1 + 5 or 3 + 7

The serrated edge of the key acts as an indicator of the switch position

Max. number of contacts accepted: 8

Price list code

PR 17		30C2	30C
PR 21		30C3	30C
PR 26		30C4	30C

Extra charges

Key with plastic grip (recommended for more than 4 contacts)

Y646

30CM

Chrome brass bezel

Y644⁽¹⁾

TO BE SPECIFIED

Other key (other than 455 or 1424)

Y645⁽¹⁾

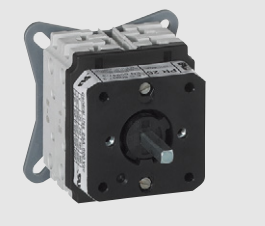
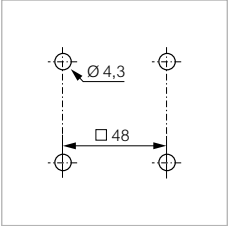
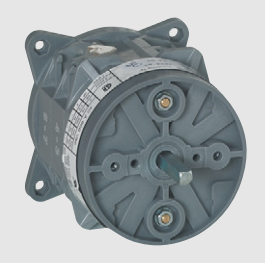
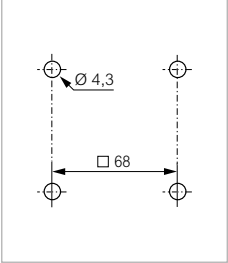
TO BE SPECIFIED

⁽¹⁾ To be added at the end of the reference and price list code

Separate cam switches

Dimensions (p. 255)

REAR MOUNTING

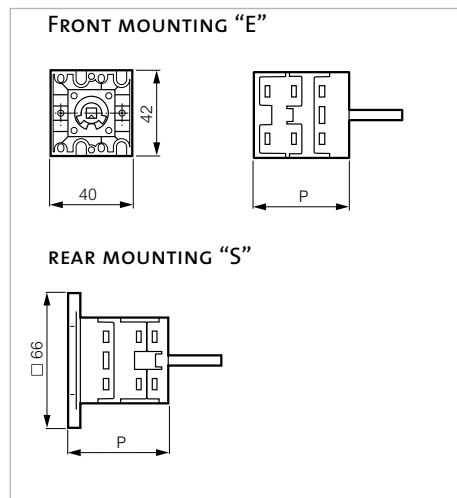
2 SCREWS - INTERVAL □ 48 OR 68		Cat. No.	
		For PR 12 to PR 160	Price list code
		PR 12 PR 17 PR 21 PR 26	Y513 Y503 Y504 Y505
		PR 40 PR 63 PR 125 PR 160	Y507 Y508 Y511 Y517

ON DIN RAIL		Cat. No.	
	For PR 12 to PR 26	Price list code	
	Max. number of contacts accepted: 8		
	PR 12 PR 17 PR 21 PR 26	Y553 Y543 Y544 Y545	SX SX SX SX

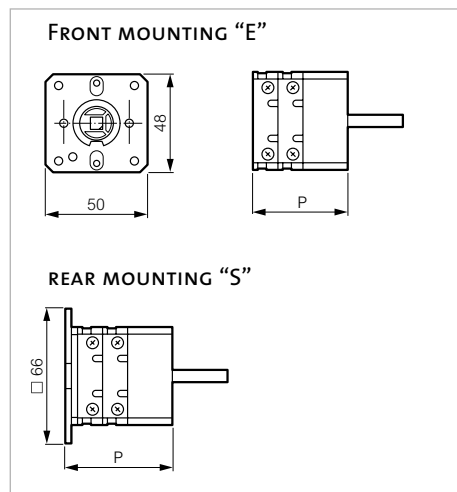
Separate cam switches

► DIMENSIONS

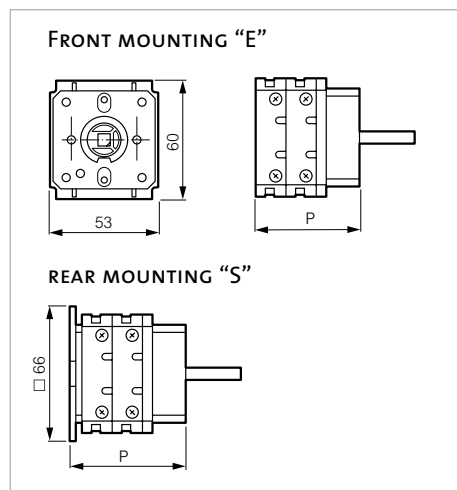
FRONT AND REAR MOUNTING (E AND S)



PR 12	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	36	42
	3-4	46	52
	5-6	56	62
	7-8	66	72
	9-10	76	82
	11-12	86	92
	13-14	122	128
	15-16	132	138
	17-18	142	148
	19-20	152	158
	21-22	162	168
	23-24	172	178



PR 17/21	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	33	39
	3-4	45	51
	5-6	57	63
	7-8	69	75
	9-10	81	87
	11-12	93	99
	13-14	105	111
	15-16	117	123
	17-18	129	135
	19-20	141	147
	21-22	153	159
	23-24	165	171



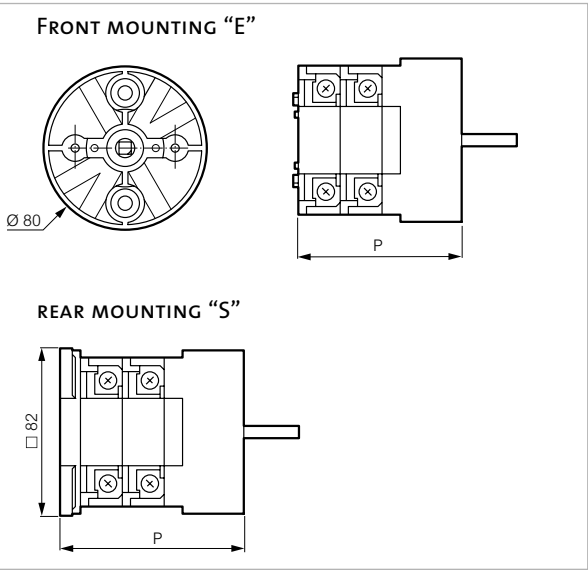
PR 26	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	36	42
	3-4	51	57
	5-6	66	72
	7-8	81	87
	9-10	96	102
	11-12	111	117
	13-14	126	132
	15-16	141	147
	17-18	156	162
	19-20	171	177
	21-22	186	192
	23-24	201	207

* P = Depth

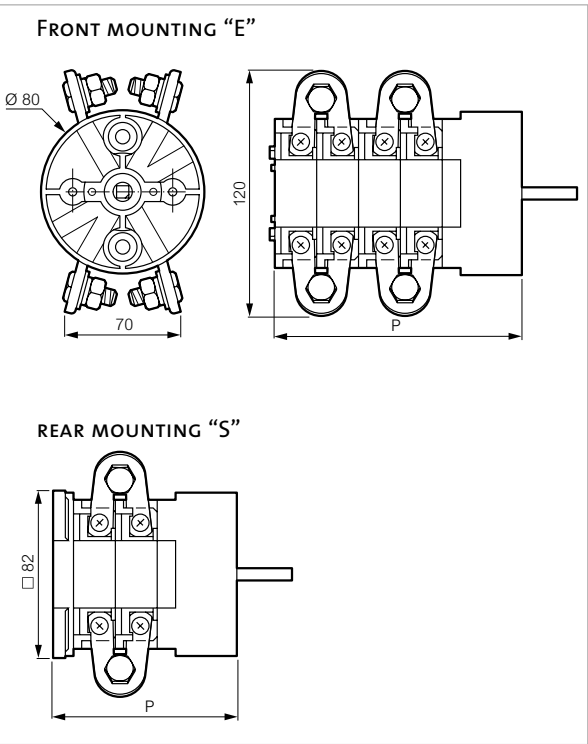
Separate cam switches

► DIMENSIONS (CONTINUED)

FRONT AND REAR MOUNTING (E AND S)



PR 40/63	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	60	70
	3-4	80	90
	5-6	100	110
	7-8	120	130
	9-10	140	150
	11-12	160	170
	13-14	180	190
	15-16	200	210
	17-18	220	230
	19-20	240	250
	21-22	260	270
	23-24	280	290



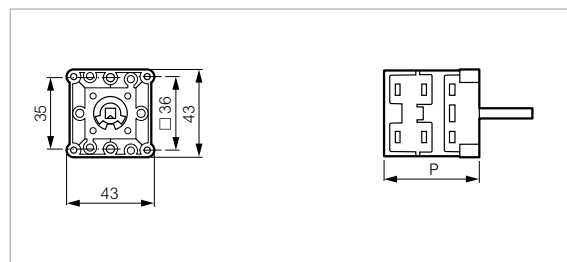
PR 125/160	No. of contacts	Front mounting P*	Rear mounting P*
	1-2	80	90
	3-4	120	130
	5-6	160	170
	7-8	200	210
	9-10	240	250
	11-12	280	290

* P = Depth

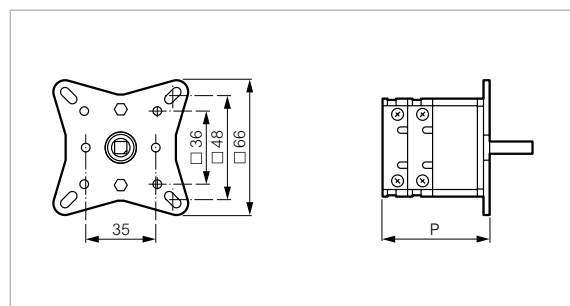
Separate cam switches

► DIMENSIONS (CONTINUED)

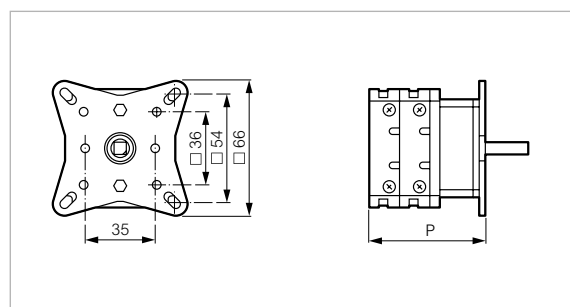
FRONT MOUNTING (EZ)



PR 12	No. of contacts	P*
	1-2	36
	3-4	46
	5-6	56
	7-8	66
	9-10	76
	11-12	86
	13-14	122
	15-16	132
	17-18	142
	19-20	152
	21-22	162
	23-24	172



PR 17/21	No. of contacts	P*
	1-2	39
	3-4	51
	5-6	63
	7-8	75
	9-10	87
	11-12	99
	13-14	111
	15-16	123
	17-18	135
	19-20	147
	21-22	159
	23-24	171



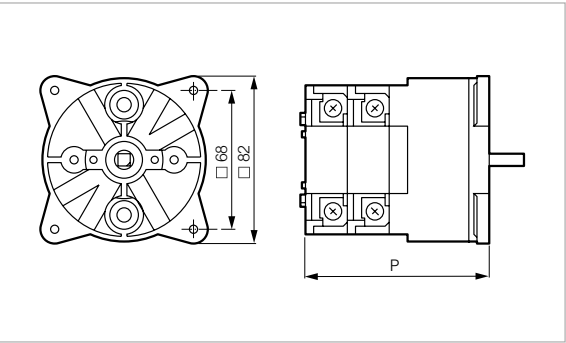
PR 26	No. of contacts	P*
	1-2	42
	3-4	57
	5-6	72
	7-8	87
	9-10	102
	11-12	117
	13-14	132
	15-16	147
	17-18	162
	19-20	177
	21-22	192
	23-24	207

* P = Depth

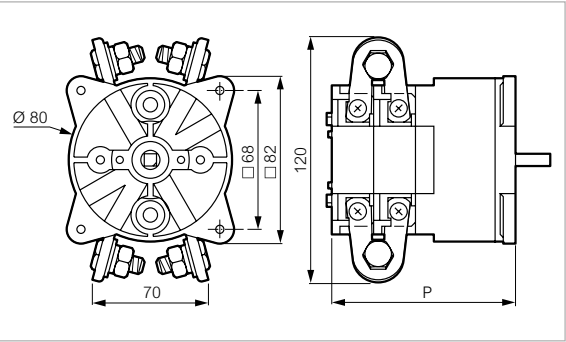
Separate cam switches

► DIMENSIONS (CONTINUED)

FRONT MOUNTING (EZ)



	No. of contacts	P*
PR 40/63		
	1-2	60
	3-4	80
	5-6	100
	7-8	120
	9-10	140
	11-12	160
	13-14	180
	15-16	200
	17-18	220
	19-20	240
	21-22	260
	23-24	280



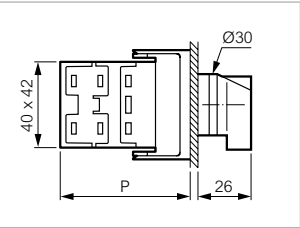
PR 125/160		
	1-2	80
	3-4	120
	5-6	160
	7-8	200
	9-10	240
	11-12	280

* P = Depth

Separate cam switches

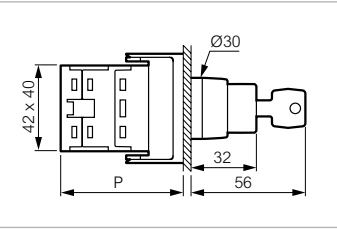
► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 22 (E N48MD50)

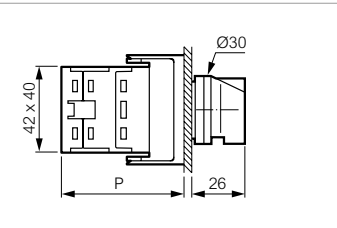


PR 12	No. of contacts	P*
	1-2	51
	3-4	61
	5-6	71
	7-8	81
	9-10	91
	11-12	101

SINGLE HOLE MOUNTING Ø 22 (E C21XXXX)



PR 12	No. of contacts	P*
With key		
	1-2	51
	3-4	61
	5-6	71
	7-8	81



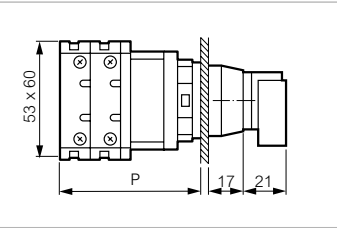
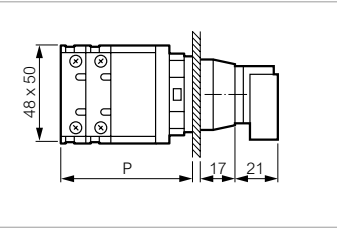
With handle/long handle		
	1-2	51
	3-4	61
	5-6	71
	7-8	81
	9-10	91
	11-12	101

* P = Depth

Separate cam switches

► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 30 (E 30PN)



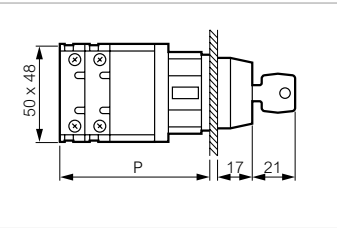
* P = Depth

	No. of contacts	p*
PR 17/21	1-2	47.5
	3-4	59.5
	5-6	71.5
	7-8	83.5
	9-10	95.5
	11-12	107.5
	13-14	119.5
	15-16	131.5
	17-18	143.5
	19-20	155.5
	21-22	167.5
	23-24	179.5
PR 26	1-2	50.5
	3-4	65.5
	5-6	80.5
	7-8	95.5
	9-10	110.5
	11-12	125.5
	13-14	140.5
	15-16	155.5
	17-18	170.5
	19-20	185.5
	21-22	200.5
	23-24	215.5

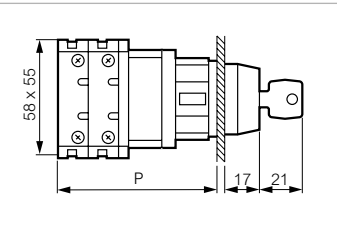
Separate cam switches

► DIMENSIONS (CONTINUED)

SINGLE HOLE MOUNTING Ø 30 (E 30C)



	No. of contacts	P*
PR 17/21	1-2	56.5
	3-4	68.5
	5-6	80.5
	7-8	92.5
	9-10	104.5
	11-12	116.5
	13-14	128.5
	15-16	140.5
	17-18	152.5
	19-20	164.5
	21-22	176.5
	23-24	188.5



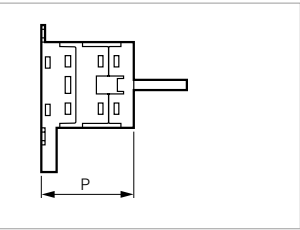
* P = Depth

PR 26	1-2	59.5
	3-4	74.5
	5-6	89.5
	7-8	104.5
	9-10	119.5
	11-12	134.5
	13-14	149.5
	15-16	164.5
	17-18	179.5
	19-20	194.5
	21-22	209.5
	23-24	224.5

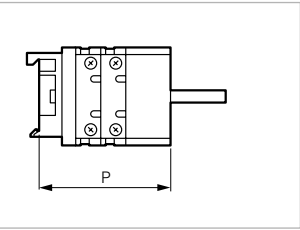
Separate cam switches

► DIMENSIONS (CONTINUED)

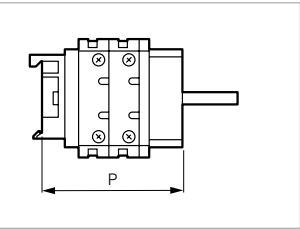
REAR MOUNTING ON DIN RAIL (SX)



	No. of contacts	P*
PR 12	1-2	36
	3-4	46
	5-6	56
	7-8	66



PR 17/21	1-2	49
	3-4	61
	5-6	73
	7-8	85



PR 26	1-2	52
	3-4	67
	5-6	82
	7-8	97

* P = Depth

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 126)
Mini cam switches are only available in standard formats.

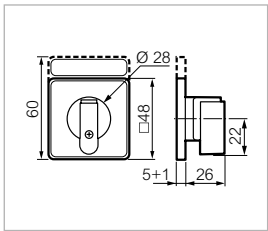
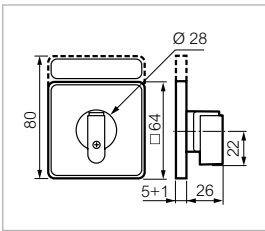
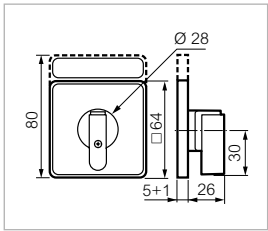
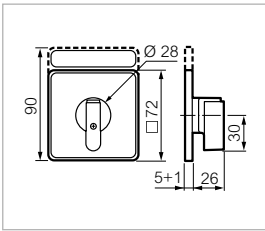
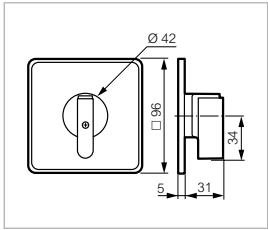
► IV - CHOICE OF PRESENTATION

		Page
► Complete plate, frame and handle PR 12 to PR 16o		264 264
► Plate, frame and handle: other combinations Plate and frame for PR 12 to PR 16o Handles for PR 12 to PR 16o		265 265 266
► Padlockable Plate, frame and handle for PR 12 to PR 16o Clutch drive without door interlock for PR 12 to PR 16o		267 267 268
► Enclosure Compact size BPR for PR 12 Normal type BC for PR 12 to PR 26 Normal type BCF for PR 40 to PR 63		270 270 271 272
► With key locking Plate, frame and handle for PR 12 to PR 16o		274 274
► Parallel coupling of 2 switches With handle PR 12 to PR 16o		275 275
► Serial coupling of 2 switches With handle PR 12 to PR 16o		276 276
► Dual-voltage device With plate, frame and handle PR 12 to PR 26		277 277

Separate cam switches

Standard engraving (p. 286)

► PLATE, FRAME AND HANDLE

Type		Cat. No.	
		For PR 12 to PR 160 Aluminium plate + grey/black handle/long handle Blank label The price for the presentation includes engraving of the usual texts and symbols (engraving to be specified)	
		Price list code	
		PR 12 to PR 26 □ 48 plate and frame + small handle + duty label + small handle + small lever + Duty label + small lever	
Q48PN		Q48PN Q480PN Q48PC Q480PC	Q48PN50 Q480PN50 Q48PC50 Q480PC50
		□ 64 plate and frame + small handle + duty label + small handle + small lever + Duty label + small lever	
Q64PN		Q64PN Q640PN Q64PC Q640PC	Q64PN50 Q640PN50 Q64PC50 Q640PC50
		PR 40 to PR 160 □ 64 plate and frame + medium handle + duty label + medium handle + small lever + small lever	
Q64MN		Q64MN Q640MN Q64PC Q640PC	Q64MN60 Q640MN60 Q64PC60 Q640PC60
		□ 72 plate and frame + medium handle + duty label + medium handle + small lever + Duty label + small lever	
Q72MN		Q72MN Q720MN Q72PC Q720PC	Q72MN60 Q720MN60 Q72PC60 Q720PC60
		□ 96 plate and frame + large handle + large lever	
Q96GN		Q96GN Q96GC	Q96GN60 Q96GC60
Extra charges Standard engraving Customised engraving		Y000 Y100	

Separate cam switches

Standard engraving (p. 286)

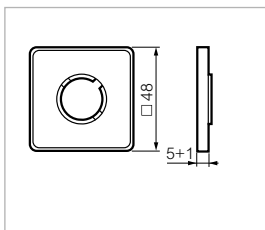
▶ PLATE AND FRAME

Other combinations

Cat. No.



Q61



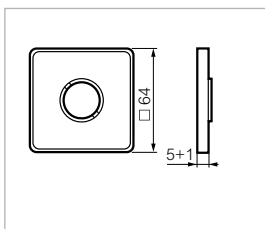
□ 48

For PR 12 to PR 160

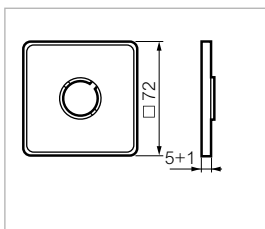
For complete presentation, add handle
The price for the presentation includes engraving of standard texts and symbols (p. 286)
Other engraving (form p. 287)
Duty label with aluminium plate



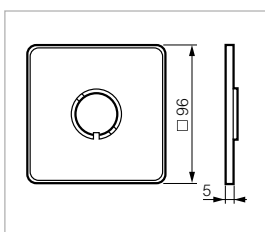
Q780



□ 64



□ 72



□ 96

□ 48 plate (PR 12 to PR 26)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

□ 64 plate (PR 12 to PR 160)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

□ 72 plate (PR 12 to PR 160)

- Red
- Red with duty label
- Black
- Black with duty label
- Yellow
- Yellow with duty label
- Aluminium
- Aluminium with duty label

□ 96 plate (PR 40 to PR 160)

- Red
- Black
- Yellow
- Aluminium

Price list code

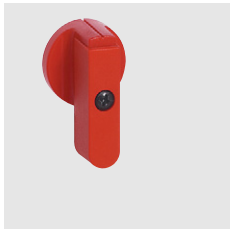
Q41	Q41
Q410	Q410
Q43	Q43
Q430	Q430
Q45	Q45
Q450	Q450
Q48	Q48
Q480	Q480
Q61	Q61
Q610	Q610
Q63	Q63
Q630	Q630
Q65	Q65
Q650	Q650
Q64	Q64
Q640	Q640
Q71	Q71
Q710	Q710
Q73	Q73
Q730	Q730
Q75	Q75
Q750	Q750
Q72	Q72
Q720	Q720
Q91	Q91
Q93	Q93
Q95	Q95
Q96	Q96

Separate cam switches

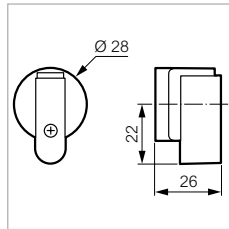
► HANDLES

Other combinations

Cat. No.



MN61



PN

For PR 12 to PR 160

For complete products, add plate + handle

Price list code

PR 12 to PR 26

- Red - small handle
- Black - small handle
- Red - medium handle
- Black - medium handle
- Red - large handle
- Black - large handle
- Red - small lever
- Black - small lever

PN51
PN53
MN51
MN53
GN51
GN53
PC51
PC53

PN51
PN53
MN51
MN53
GN51
GN53
PC51
PC53

PR 40 to PR 160

- Red - medium handle
- Black - medium handle
- Red - large handle
- Black - large handle
- Red - small lever
- Black - small lever
- Red - large lever
- Black - large lever

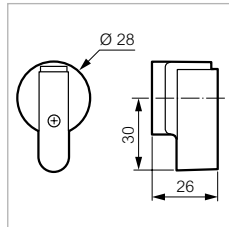
MN61
MN63
GN61
GN63
PC61
PC63
GC61
GC63

MN61
MN63
GN61
GN63
PC61
PC63
GC61
GC63

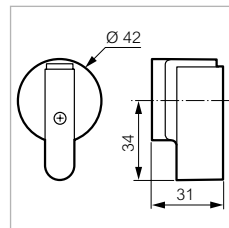
Version with foolproofing and other colours (see p. 279/280)



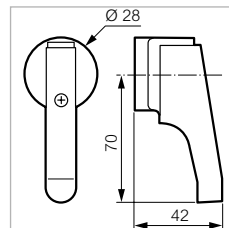
GN63



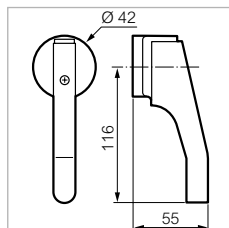
MN



GN



PC



GC

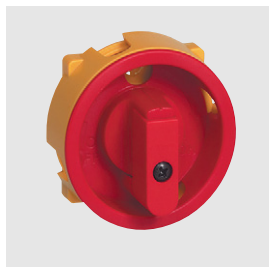
Separate cam switches

Standard engraving (p. 286)

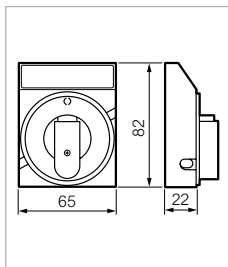
► PADLOCKABLE PRESENTATION

Other combinations

Cat. No.



J48PN51



For PR 12 to PR 160

Yellow presentation, red handle
for up to 4 padlocks

Price list code

PR 12 to PR 26 - Mounting 30 mm interval

small frame □ 48,

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J48PN51
J480PN51
J481PN51
J482PN51
J483PN51

J48PN51
J480PN51
J481PN51
J482PN51
J483PN51

Medium frame □ 72,

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J72MN51
J720MN51
J721MN51
J722MN51
J723MN51

J72MN51
J720MN51
J721MN51
J722MN51
J723MN51

PR 40 to PR 160 - Mounting 50 mm interval

Medium frame □ 72,
medium red handle

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J72MN61
J720MN61
J721MN61
J722MN61
J723MN61

J72MN61
J720MN61
J721MN61
J722MN61
J723MN61

Large frame □ 96,

With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

J960GN61
J961GN61
J962GN61
J963GN61

J960GN61
J961GN61
J962GN61
J963GN61

Extra charges

Standard engraving
Customised engraving
IP 65 version

Y000
Y100
Y661

If the switching angle is different from 60°, replace J with H

- For version with grey plate, grey/black handle,
replace the letter J with the letter V in the
reference and delete the last 2 two digits (51 or 61)

- If the switching angle is different from 60°
replace V with G in the reference

- For difference mounting intervals, the addition of an
adaptor plate allows intervals EZ 35, EZ 36/48/68 (see
p. 257/258)

The reference then becomes:

J44/440 for □ 48

J74/740 for □ 72

J940 for □ 96

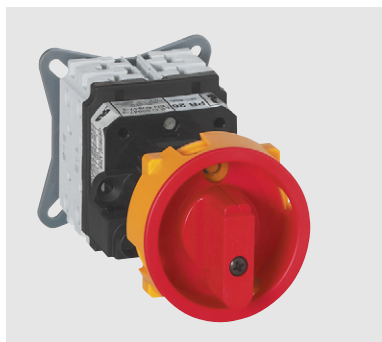
Separate cam switches

Standard engraving (p. 286)

► PADLOCKABLE PRESENTATION (CONTINUED)

With clutch drive and without door interlock

Cat. No.



R5J48PN61

For PR 12 to PR 160

Yellow presentation, red handle
for up to 4 padlocks

Rear mounting

Price list code

PR 12 to PR 26

Small frame □ 48,
Front mounting possible
(A, C or D see p. 269)

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

R5J48PN61
R5J480PN61
R5J481PN61
R5J482PN61
R5J483PN61

R5J48PN61
R5J480PN61
R5J481PN61
R5J482PN61
R5J483PN61

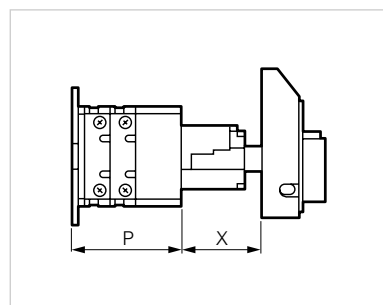
Medium frame □ 72,
Front mounting possible
(A, C, D or E see p. 269)

Without engraving
With engraving (state requirement)
With engraving (Inter principal)
With engraving (Hauptschalter)
With engraving (Main switch)

R5J72MN61
R5J720MN61
R5J721MN61
R5J722MN61
R5J723MN61

R5J72MN61
R5J720MN61
R5J721MN61
R5J722MN61
R5J723MN61

If the switching angle is different from 60°:
Replace J with H

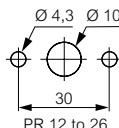
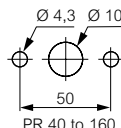
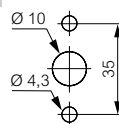
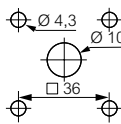
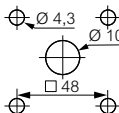
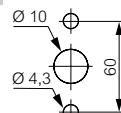
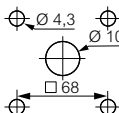


S mounting method (see p. 255)
X = 45 to 65 mm (+ 31, 62 or 93 mm
with extension piece)

Separate cam switches

Standard engraving (p. 286)

► PADLOCKABLE PRESENTATION (CONTINUED)

With clutch drive and without door interlock			Cat. No.
A 	B 	For PR 12 to PR 160 Yellow presentation, red handle for up to 4 padlocks Rear mounting	
		Price list code	
C 	D 	PR 40 to PR 160 Medium frame □ 72, Front mounting possible (B, C, D or E) Without engraving With engraving (state requirement) With engraving (Inter principal) With engraving (Hauptschalter) With engraving (Main switch)	
		R6J72MN61 R6J720MN61 R6J721MN61 R6J722MN61 R6J723MN61	R6J72MN61 R6J720MN61 R6J721MN61 R6J722MN61 R6J723MN61
E 	F 	Large frame □ 96, Front mounting possible (B, C, D, E, or G) With engraving (state requirement) With engraving (Inter principal) With engraving (Hauptschalter) With engraving (Main switch)	
		R6J960GN61 R6J961GN61 R6J962GN61 R6J963GN61	R6J960GN61 R6J961GN61 R6J962GN61 R6J963GN61
		Extra charges Extra charge for standard engraving Extra charge for customised engraving Extra charge for IP 65 version	
		Y000 Y100 Y662	
G 			
		Accessories Adjusting clips for door alignment Extension piece 31 mm, for control shaft (max. 3 per switch) Relay terminals 16 mm ² (pair) Operating key, when door open	
		WR01 WR02 WR03 WR04	WR01 WR02 WR03 WR04

If the switching angle is different from 60°:
Replace J with H

- For version with grey plate, grey/black handle
replace the letter J with the letter V in the
reference and delete 61

- For clutch drive with door interlock
replace the letter R with V in the reference

Separate cam switches

Standard engraving (p. 286)

► ENCLOSURE

TYPE BPR

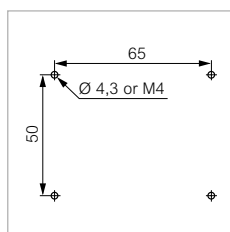
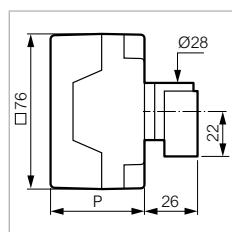
Compact size

Cat. No.



PR 12 for mounting in enclosure, special version with inverted terminals

Base mounting PR 12
Enclosure in light grey, self-extinguishing thermoplastic
IP 40
4 knock-out $\varnothing$ 19 cable entries for Pg 11 with nut
The price for the presentation includes engraving of the standard texts and symbols



PR 12 - 1 or 2 contacts

- 48 plate and frame
- Aluminium, small grey/black handle
- Yellow, padlockable presentation small red handle
- Grey, padlockable presentation, small grey-black handle

Price list code

BPR01Q48	BPRQ48PN
BPR01J	BPRJ48PN51
BPR01V	BPRV48PN

PR 12 - 3 or 4 contacts

- 48 plate and frame
- Aluminium, small grey/black handle
- Yellow, padlockable presentation small red handle
- Grey, padlockable presentation, small grey-black handle

BPR02Q48	BPRQ48PN
BPR02J	BPRJ48PN51
BPR02V	BPRV48PN

Accessories

Cable gland Pg11 with nut	CM10P	CM10P
---------------------------	-------	-------

Extra charges

Standard engraving	Y000
Customised engraving	Y100
IP 65 version	Y632

Foolproofing (see p. 291)

P *	Price list code	Contacts
46	BPR01	1-2 CONTACTS
58	BPR02	3-4 CONTACTS

P * = Depth

- for other legend plate colours

replace Q48 (in the reference and price list code) with:

- Q41 - □ 48 red legend plate
- Q43 - □ 48 black legend plate
- Q45 - □ 48 yellow legend plate

- for other handle colours

replace PN (in the reference) with:

- PN51 - small red handle
- PN53 - small black handle

Separate cam switches

Standard engraving (p. 286)

► ENCLOSURE

TYPE BC

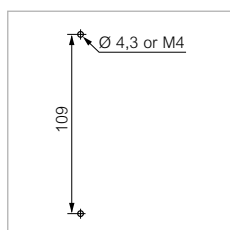
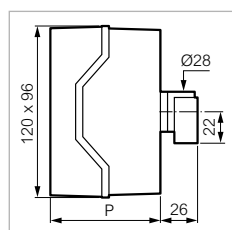
Standard size enclosure

Cat. No.



PR 12 to PR 26

Version with base mounted cam switch
Enclosure in self-extinguishing thermoplastic
black base, light grey cover
IP 40
4 knock-out $\varnothing$ 23 cable entries for Pg 16 with nut
The price for the presentation includes engraving
standard texts and symbols



Price list code

PR 12 - 1 to 6 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC21Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC21J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC21V48	BCV48

PR 12 - 7 to 10 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC22Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC22J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC22V48	BCV48

PR 17-21 - 1 to 6 contacts

PR 26 - 1 to 4 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC23Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC23J48	BCJ48
Grey, padlockable presentation, grey/black handle	BC23V48	BCV48

PR 17-21 - 7 to 10 contacts

PR 26 - 5 to 8 contacts

☐ 64 plate and frame		
● Aluminium, black handle	BC24Q3	BCQ3
☐ 48 plate and frame		
● Yellow, padlockable presentation red handle	BC24J48	BCJ48
● Grey, padlockable presentation, grey/black handle	BC24V48	BCV48

Accessories

Cable gland Pg16 with nut	CM14P	CM14P
Relay terminals (pair)	WR03	WR03
Tamperproof screw (pair)	WR05	WR05

Extra charges

Standard engraving	Y000
Customised engraving	Y100
IP 65 version	Y663

P *	Price list code	Contacts
77	BC21-23	1-6 CONTACTS (1-4 PR26)
101	BC22-24	7-10 CONTACTS (5-8 PR26)

P * = Depth

- for other colours, legend plates and handles
replace Q3 (in the reference and
price list code with:

Q1 - aluminium legend plate, red handle

R1 - red legend plate, red handle

J1 - red legend plate, yellow handle

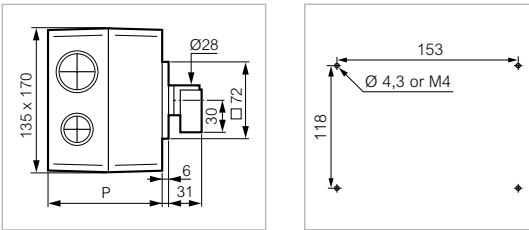
N3 - black legend plate, black handle

Separate cam switches

Standard engraving (p. 286)

► ENCLOSURE

TYPE BCF	Standard size enclosure	Cat. No.
----------	-------------------------	----------



P	Price list code	Contacts
107	BCF140-240	1-4 CONTACTS
145	BCF340-440	5-8 CONTACTS

P * = Depth

PR 40 to PR 63

Version with base mounted cam switch
Enclosure in light grey, self-extinguishing thermoplastic
IP 40
10 knock-out cable entries:
6 x Ø 29 for Pg 21
(2 above and below, 1 on each side)
4 x Ø 38 for Pg 29 (1 on each side)
The price for the presentation includes engraving of the standard texts and symbols

PR 40-63 - 1 and 2 contacts

- Without presentation
- 72 plate and frame
 - Aluminium, medium grey/black handle
 - Yellow, padlockable presentation
 - medium red handle
 - 96 plate and frame
 - Aluminium, large grey/black handle

Price list code

BCF140	BCF
BCF140Q72	BCFQ72MN
BCF140J72	BCFJ72MN61
BCF140Q96	BCFQ96GN

PR 40-63 - 3 and 4 contacts

- Without presentation
- 72 plate and frame
 - Aluminium, medium grey/black handle
 - Yellow, padlockable presentation
 - medium red handle
 - 96 plate and frame
 - Aluminium, large grey/black handle

BCF240	BCF
BCF240Q72	BCFQ72MN
BCF240J72	BCFJ72MN61
BCF240Q96	BCFQ96GN

Separate cam switches

Standard engraving (p. 286)

► ENCLOSURE

TYPE BCF (continued)

Standard size enclosure

Cat. No.



PR 40-63 - 5 and 6 contacts

Without presentation

□ 72 plate and frame

● Aluminium,
medium grey/black handle

● Yellow, padlockable presentation
medium red handle

□ 96 plate and frame

● Aluminium,
large grey/black handle

Price list code

BCF340

BCF

BCF340Q72

BCFQ72MN

BCF340J72

BCFJ72MN61

BCF340Q96

BCFQ96GN

PR 40-63 - 7 and 8 contacts

Without presentation

□ 72 plate and frame

● Aluminium,
medium grey/black handle

● Yellow, padlockable presentation
medium red handle

□ 96 plate and frame

● Aluminium,
large grey/black handle

BCF440

BCF

BCF440Q72

BCFQ72MN

BCF440J72

BCFJ72MN61

BCF440Q96

BCFQ96GN

Accessories

Cable gland Pg 21 with nut

Cable gland Pg 29 with nut

CM18P

CM24P

CM18P

CM24P

Extra charges

Standard engraving

Customised engraving

IP 55 version

Y000

Y100

Y647

Separate cam switches

Standard engraving (p. 286)

► KEYLOCKING DEVICE

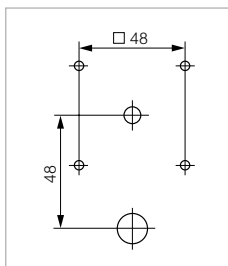
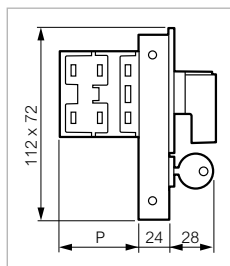
Plate and frame (quadral)

Cat. No.



For PR 12 to PR 160
For switch in front mounting mode
With keylocking

Handle locked in all positions
key no. 455
(or 1424A, state requirement on order, no extra charge)
Key can be withdrawn in locked and
unlocked positions
On request, the handle can be:
- locked in certain positions (to be stated on order)
The key can be:
- withdrawn in locked position
only (to be stated on order)



P *: front mounting E (p. 255)

* P = Depth

Price list code

PR 12 to PR 160

- 64 plate and frame
 - Aluminium, medium grey/black handle
- 72 plate and frame
 - Aluminium, medium grey/black handle

Q64MNC

Q64MNC

Q72MNC

Q72MNC

Extra charges

Other combinations

Y645

Foolproofing and special shaft (see p. 291)

- for other plate colours

- replace (in the reference and price list code)

Q64 with:

Q61 - red plate

Q63 - black plate

Q65 - yellow plate

- replace (in the reference and price list code)

Q72 with:

Q71 - red plate

Q73 - black plate

Q75 - yellow plate

- for other medium handle colours PR 12 to PR 26

- replace (in the reference and price list code)

MN with:

MN51 - red medium handle

MN53 - black medium handle

- for other handle colours PR 40 to PR 160

- replace (in the reference and price list code)

MN with:

MN61 - red medium handle

MN63 - black medium handle

Separate cam switches

Standard engraving (p. 286)

► PARALLEL COUPLING OF 2 SWITCHES

Plate and frame (quadral)

Cat. No.



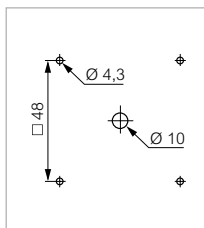
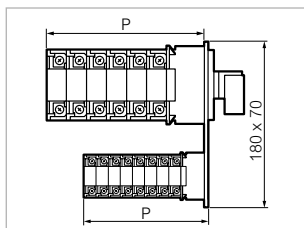
For PR 12 to PR 160
For switch in front mounting mode

Applications:

- For diagrams requiring more contacts than the maximum number possible
- where there is limited depth available

There is a driving switch actuated by the handle, and a driven switch actuated by a gear train

Both switches have the same switching angle and number of positions



P*: front mounting E (p. 255)

* P = Depth

- for other plate colours, replace (in the reference and the price list code)

Q64 with:

- Q61 - red plate
- Q63 - black plate
- Q65 - yellow plate

Q72 with:

- Q71 - red plate
- Q73 - black plate
- Q75 - yellow plate

Q96 with:

- Q91 - red plate
- Q93 - black plate
- Q95 - yellow plate

- for other handle colours, replace (in reference and price list code)

For PR 12 to PR 26, MN or PC with:

- MN51 or PC51 - red medium handle / small lever
- MN53 or PC53 - black medium handle / small lever

lever

For PR40 to PR 160, MN or PC with:

- MN61 or PC61 - red medium handle / small lever
- MN63 or PC63 - black medium handle / small lever

For PR40 to PR 160, GN or GC with:

- GN61 or GC61 - red large handle / large lever
- GN63 or GC63 - black large handle / large lever

Price list code

PR 12 to PR 160

Driving switch presentation

□ 64 plate and frame

- Aluminium, medium grey/black handle

Q64MNAP

Q64MNAP

□ 72 plate and frame

- Aluminium, medium grey/black handle

Q72MNAP

Q72MNAP

□ 96 plate and frame

- Aluminium, large grey/black handle

Q96GNAP

Q96GNAP

Extra charges

Foolproofing and special shaft (see p. 291)

Possibility of coupling 2 cam switches in parallel:

Driven switch	Driving switch				
	PR 12	PR 17 - PR 21	PR 26	PR 40 - PR 63	PR 125 - PR 160
PR 12	X	X	X	X	X
PR 17 - PR 21		X	X	X	X
PR 26			X	X	X
PR 40 - PR 63				X	

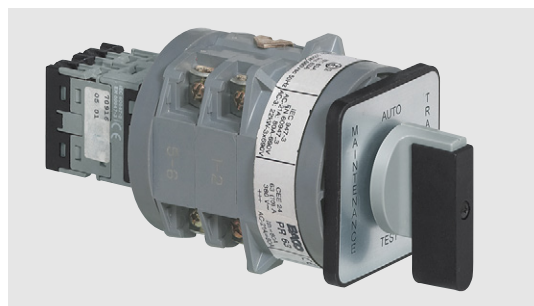
Separate cam switches

Standard engraving (p. 286)

► SERIAL COUPLING OF 2 SWITCHES

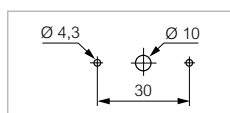
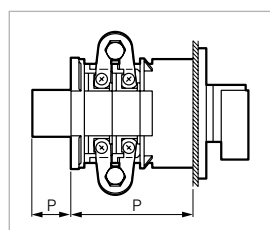
Plate and frame (quadral)

Cat. No.

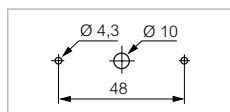


For PR 12 to PR 160
For switch in front mounting mode

Applications:
- for very different current circuits
- limited to 12 contact stages in total
(1 PR stage 125-160 = 2 stages)
There is a driving switch actuated by the handle,
and a driven switch
Both switches have the same switching angle and number of positions



PR 12 to PR 26



PR 40 to PR 160

P *: see front mounting
E (p. 255)

* P = Depth

- for other plate colours, replace (in the reference and the price list code)

Q64 with:

- Q61 - red plate
- Q63 - black plate
- Q65 - yellow plate

Q72 with:

- Q71 - red plate
- Q73 - blackplate
- Q75 - yellow plate

Q96 with:

- Q91 - red plate
- Q93 - black plate
- Q95 - yellow plate

- for other handle colours,
replace (in reference and price list code)

For PR 12 to PR 26, MN or PC with:

- MN51 or PC51 - red medium handle / small lever
- MN53 or PC53 - black medium handle / small

lever

For PR40 to PR 160, MN or PC with:

- MN61 or PC61 - red medium handle / small lever
- MN63 or PC63 - black medium handle / small lever

For PR40 to PR 160, GN or GC with:

- GN61 or GC61 - red large handle / large lever
- GN63 or GC63 - black large handle / large lever

Price list code

PR 12 to PR 160

Driving switch presentation

- ☐ 64 plate and frame
- Aluminium, medium grey/black handle
- ☐ 72 plate and frame
- Aluminium, medium grey/black handle
- ☐ 96 plate and frame
- Aluminium, large grey/black handle

Q64MNAS

Q64MNAS

Q72MNAS

Q72MNAS

Q96GNAS

Q96GNAS

Extra charges

Foolproofing and special shaft (see p. 291)

Possibility of coupling 2 cam switches in series:

Driven switch	Driving switch				
	PR 12	PR 17 - PR 21	PR 26	PR 40 - PR 63	PR 125 - PR 160
PR 12		X	X	X	X
PR 17 - PR 21			X	X	X
PR 26				X	X
PR 40 - PR 63					X

Separate cam switches

Standard engraving (p. 286)

► DUAL-VOLTAGE DEVICE

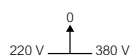
Plate and frame (quadral)

Cat. No.

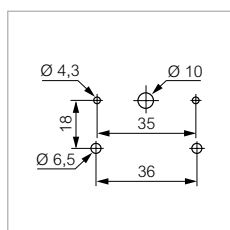
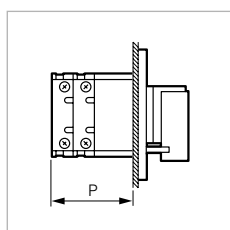


For PR 12 to PR 26
For switch in front mounting mode

Applications:
For locking the handle in the right or left position,
to prevent wrong switching



Example: Off position in the middle
and max. 90° rotation
to right or left



P*: see front mounting E (p. 255)

* P = Depth

- for other plate colours, replace (in the reference and the price list code)

EZS64 with:

- EZS61 - red plate
- EZS63 - black plate
- EZS65 - yellow plate

EZS72 with:

- EZS71 - red plate
- EZS73 - black plate
- EZS75 - yellow plate

- for other medium handle colours, replace (in reference and price list code)

MN with:

- MN51 - red medium handle
- MN53 - black medium handle

Price list code

PR 12

Dual-voltage device
with □ 64 plate and frame
● Aluminium,
medium grey/black handle

EZS64MN

EZS64MN

PR 17-21 and PR 26

Dual-voltage device
with □ 72 plate and frame
● Aluminium,
medium grey/black handle

EZS72MN

EZS72MN

Extra charges

Foolproofing and special shaft (see p. 291)

Separate cam switches

To order your cam switch, it is essential to follow the 5-step procedure (see presentation on p. 126)
Mini cam switches are only available in standard formats.

► V - OPTIONS AND COMPONENTS

FUNCTIONS		Page
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Separate cam switches

HANDLES

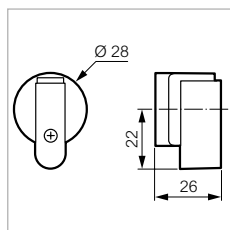
HANDLES

FOR PR 12 TO PR 26

Cat. No.



PN50



PN

For □ 5 shaft

Small handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing

Price list code

PN50	PN50
PND50	PND50

PN51	PN51
PND51	PND51

PN53	PN53
PND53	PND53

Medium handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing

MN50	MN50
MND50	MND50

MN51	MN51
MND51	MND51

MN53	MN53
MND53	MND53

Large handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing

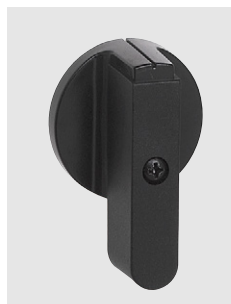
GN50	GN50
GND50	GND50

GN51	GN51
GND51	GND51

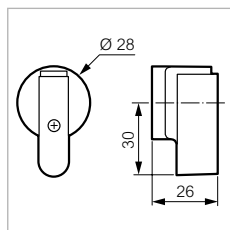
GN53	GN53
GND53	GND53

FOR PR 40 TO PR 160

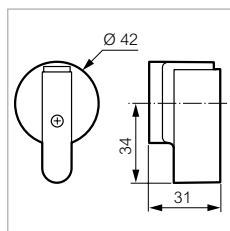
Cat. No.



GN63



MN



GN

For □ 6 shaft

Medium handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing

Price list code

MN60	MN60
MND60	MND60

MN61	MN61
MND61	MND61

MN63	MN63
MND63	MND63

Large handle

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing

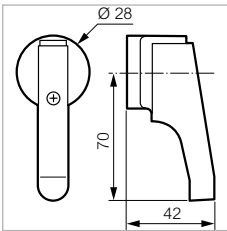
GN60	GN60
GND60	GND60

GN61	GN61
GND61	GND61

GN63	GN63
GND63	GND63

Separate cam switches

LEVERS

LEVERS	For PR 12 to PR 40	Cat. No.												
														
PC50	PC													
	For □ 5 shaft Small levers ● Grey-black, without foolproofing ● Grey-black, with foolproofing ● Red, without foolproofing ● Red, with foolproofing ● Black, without foolproofing ● Black, with foolproofing	Price list code <table><tr><td>PC50</td><td>PC50</td></tr><tr><td>PCD50</td><td>PCD50</td></tr><tr><td>PC51</td><td>PC51</td></tr><tr><td>PCD51</td><td>PCD51</td></tr><tr><td>PC53</td><td>PC53</td></tr><tr><td>PCD53</td><td>PCD53</td></tr></table>	PC50	PC50	PCD50	PCD50	PC51	PC51	PCD51	PCD51	PC53	PC53	PCD53	PCD53
PC50	PC50													
PCD50	PCD50													
PC51	PC51													
PCD51	PCD51													
PC53	PC53													
PCD53	PCD53													

LEVERS

For PR 40 to PR 160

Cat. No.

PC60

PC

GC

For □ 6 shaft

Small levers

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Large levers

- Grey-black, without foolproofing
- Grey-black, with foolproofing
- Red, without foolproofing
- Red, with foolproofing
- Black, without foolproofing
- Black, with foolproofing

Price list code

PC60	PC60
PCD60	PCD60
PC61	PC61
PCD61	PCD61
PC63	PC63
PCD63	PCD63
GC60	GC60
GCD60	GCD60
GC61	GC61
GCD61	GCD61
GC63	GC63
GCD63	GCD63

Separate cam switches

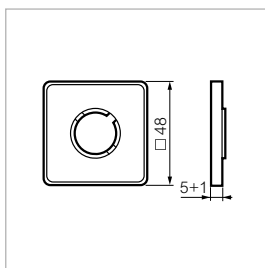
Standard engraving (p. 286)

▶ PLATES

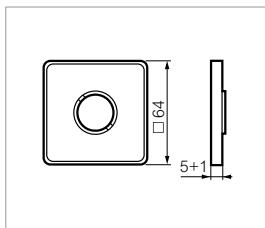
Cat. No.



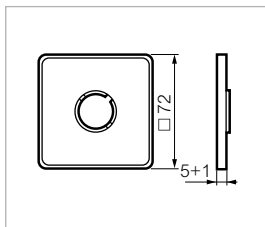
WE70000



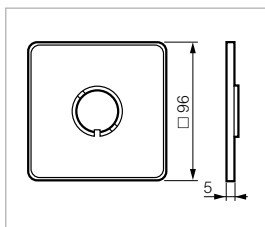
□ 48



□ 64



□ 72



□ 96

Fit onto frame and onto one-hole mounting $\varnothing$ 22 head (except □ 96)

Price list code

□ 48

● Aluminium

WE40

WE40

● Red

WE41

WE41

● Black

WE43

WE43

● Yellow

WE45

WE45

○ Transparent

WE47

WE47

● Aluminium - with engraving

WE40000

WE40000

● Red - with engraving

WE41000

WE41000

● Black - with engraving

WE43000

WE43000

● Yellow - with engraving

WE45000

WE45000

○ Transparent - with engraving

WE47000

WE47000

□ 64

● Aluminium

WE60

WE60

● Red

WE61

WE61

● Black

WE63

WE63

● Yellow

WE65

WE65

○ Transparent

WE67

WE67

● Aluminium - with engraving

WE60000

WE60000

● Red - with engraving

WE61000

WE61000

● Black - with engraving

WE63000

WE63000

● Yellow - with engraving

WE65000

WE65000

○ Transparent - with engraving

WE67000

WE67000

□ 72

● Aluminium

WE70

WE70

● Red

WE71

WE71

● Black

WE73

WE73

● Yellow

WE75

WE75

○ Transparent

WE77

WE77

● Aluminium - with engraving

WE70000

WE70000

● Red - with engraving

WE71000

WE71000

● Black - with engraving

WE73000

WE73000

● Yellow - with engraving

WE75000

WE75000

○ Transparent - with engraving

WE77000

WE77000

□ 96

● Aluminium

WE90

WE90

● Red

WE91

WE91

● Black

WE93

WE93

● Yellow

WE95

WE95

● Aluminium - with engraving

WE90000

WE90000

● Red - with engraving

WE91000

WE91000

● Black - with engraving

WE93000

WE93000

● Yellow - with engraving

WE95000

WE95000

For version with engraving see form (p. 287)

Separate cam switches

Standard engraving (p. 286)

▶ PLATES, DUTY LABELS AND FRAMES

PLATES		Cat. No.	
 UF36	For single hole mounting $\varnothing$ 30 Aluminium legend	Price list code	
	☐ 48		
	● Black plate	UF36	UF36
	● Black plate - with engraving	UF36000	UF36000
	☐ 64		
	● Black plate	UF38	UF38
	● Black plate - with engraving	UF38000	UF38000
DUTY LABELS		Cat. No.	
 Q072	To be used with frame	Price list code	
	☐ 48	Q048	Q048
	☐ 64	Q064	Q064
	☐ 72	Q072	Q072
	○ Transparent insert (only for Qo48)	IF7	IF7
	● Aluminium insert (only for Qo48)	IF9	IF9
FRAMES		Cat. No.	
 CQ64	Frame	Price list code	
	☐ 48	CQ48	CQ48
	☐ 64	CQ64	CQ64
	☐ 72	CQ72	CQ72
	☐ 96	CQ96	CQ96

Separate cam switches

Standard engraving (p. 286)
Dimensions (p. 265)

► PLATES + FRAMES

Plate + frame		Cat. No.	
	48 Aluminium Red Black Yellow	Price list code	
		Q48	Q48
		Q41	Q41
		Q43	Q43
	64 Aluminium Red Black Yellow		
		Q64	Q64
		Q61	Q61
		Q63	Q63
	72 Aluminium Red Black Yellow		
		Q72	Q72
		Q71	Q71
		Q73	Q73
	96 Aluminium Red Black Yellow		
		Q96	Q96
		Q91	Q91
		Q93	Q93

Plate + frame + duty label		Cat. No.	
	With aluminium duty label 48 Aluminium Red Black Yellow	Price list code	
		Q480	Q480
		Q410	Q410
		Q430	Q430
	64 Aluminium Red Black Yellow		
		Q640	Q640
		Q610	Q610
		Q630	Q630
	72 Aluminium Red Black Yellow		
		Q720	Q720
		Q710	Q710
		Q730	Q730

Separate cam switches

► PLATE + FRAME + DUTY LABEL

Ø 22 MOUNTING

Frame + legend plate

Cat. No.



N480

With aluminium duty label
Plate and frame for single hole
mounting Ø 22 presentation
Max. panel thickness: 1.5 mm

Price list code

□ 48

● Aluminium

N480

N480

► TERMINAL COVERS

Cat. No.



CB4

For PR 12 to PR 160
Insulating material for switch with 4 contacts max.
Transparent material for PR 12 to PR 63
Opaque material for PR 125-160

With rear mounting the terminal cover is fixed
in S mode (p. 254) with:

- for PR 12 to PR 26: 2 screws
- for PR 40 to PR 160: 2 screws

With front mounting, the terminal cover is fixed
in E mode (p. 250) with:

- for PR 12: 2 screws supplied
- for PR 17 to PR 63: 2 special nuts supplied
- for PR 125 and PR 160: 2 H4 nuts supplied

Price list code

PR 12	CB4N	CB4
PR 17	CB3D	CB3
PR 21	CB3F	CB3
PR 26	CB3E	CB3
PR 40	CB5H	CB5
PR 63	CB5I	CB5
PR 125-160	CB6L	CB6

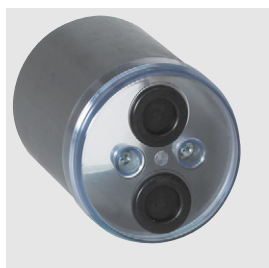
Terminal covers

PR 40-63	CB8	CB8
Pair of terminal covers in insulating material providing IP 20 protection of 2 electrical contacts located on 1 coil (provide the same number of pairs of terminal covers as coils) Clip into place after electrical connection of the terminals		

Separate cam switches

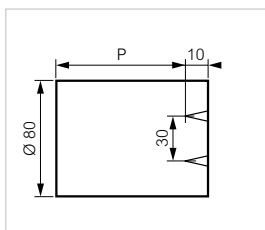
► REAR PROTECTIVE SHROUD

Cat. No.

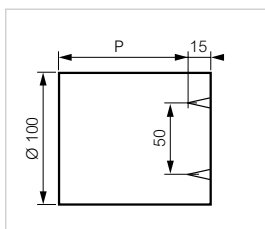


CA41N *

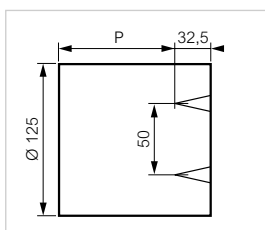
* Length of shroud to be stated when ordering the cam switch only



PR 12



PR 17 TO PR 26



PR 40 TO PR 63

For PR 12 to PR 63

Composition:

- Grey insulating body
- Transparent insulating cover
- IP 40 - protection against direct finger contact
- IP 55 - protection against splashing water
- PR 12 - the shroud fits on 1 standard type E switch
- PR 17 to PR 63 - the shroud must be specified when ordering the switch (rear mounting on a special plate)

Price list code

PR 12 - 1 to 12 contacts

IP 40
IP 55CA41N
CAE41NCA41N
CAE41N

PR 12 - 13 to 24 contacts

IP 40
IP 55CA42N
CAE42NCA42N
CAE42N

PR 17-21 - 1 to 12 contacts

IP 40
IP 55CA10D
CAE10DCA10D
CAE10D

PR 17-21 - 13 to 24 contacts

IP 40
IP 55CA11D
CAE11DCA11D
CAE11D

PR 26 - 1 to 12 contacts

IP 40
IP 55CA20F
CAE20FCA20F
CAE20F

PR 26 - 13 to 24 contacts

IP 40
IP 55CA21F
CAE21FCA21F
CAE21F

PR 40-63 - 1 to 12 contacts

IP 40
IP 55CA30I
CAE30ICA30I
CAE30I

PR 40-63 - 13 to 24 contacts

IP 40
IP 55CA31I
CAE31ICA31I
CAE31I

Plastic cable gland

Pg 16 for PR 12 to PR 21
Pg 21 for PR 26
Pg 29 for PR 40-63CM14P
CM18P
CM24PCM14P
CM18P
CM24P

Number of contacts	Depth (P)					
	PR 12	PR 17	PR 21	PR 26	PR 40	PR 63
1-2	42	45	45	48	74	74
3-4	52	57	57	63	94	94
5-6	62	69	69	78	114	114
7-8	72	81	81	93	134	134
9-10	82	93	93	108	154	154
11-12	92	105	105	123	174	174
13-14	128	117	117	138		
15-16	138	129	129	153		
17-18	148	141	141	168		
19-20	158	153	153	183		
21-22	168	165	165	198		
23-24	178	177	177	213		

Separate cam switches

To order engravings, fill in the form (p. 287)

To price a switch with customised engraving, please contact us

► ENGRAVING

STANDARD ENGRAVING

These are engraving according to switching angle (as illustrated plates on p. 216)

These standard engravings are not invoiced, the charge is included in the price for the plate or duty label

CUSTOMISED ENGRAVING

These are all the alphanumeric engravings (excluding logos, drawings, symbols) which are defined by the following parameters

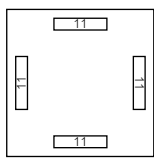
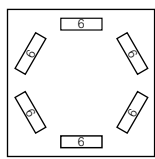
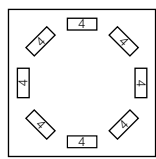
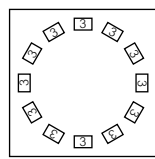
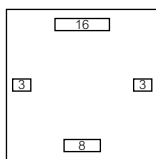
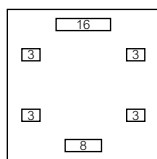
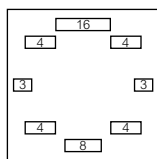
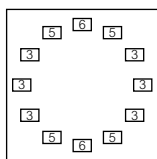
For square legend plates: type WE40 to WE95 (p. 281)

type UF36, UF38 (p. 284)

For square legend plates: type Q41 to Q96 (p. 281)



- Maximum number of alphanumeric characters per position:



- Character height:

□ 48 : 3 mm; □ 64: 4 mm; □ 72: 4.5 mm; □ 96: 6 mm

The engraving is laser-etched or silk-screen printed according to type

- Colour of engraving:

Black on aluminium and yellow plate

White on red and black plate

For duty labels: type Q048, Q064 and Q072 (p. 282)

- Maximum number of characters:

per line: 13

Maximum number of lines: 2

- Character height

□ 48 : 3 mm ; □ 64: 4 mm ; □ 72: 4.5 mm

- Colour of engraving:

Black on aluminium plate

Special engravings:

These are engravings not covered by the technical parameters used for creating standard engravings and which therefore require a special execution.

This applies to all alphanumeric engravings outside the limits defined above, and also logos, drawings or symbols



Request form for specific cam switch

Fill in one form for each type of switch

APPLICATION

- ☐ Load switching
☐ resistive ☐ electromagnetic

Rated voltage AC/DC

Rated current A

- ☐ Control of motors
☐ Starting/Switching off a running motor

- ☐ Reverse direction of rotation

Motor rating A/CV/kW

DIAGRAM

(Fill in the grid below using the appropriate symbols)

- ☒ Closed contact
- ☒ Closed contact, 2 positions without cut-off
- ☒ Overlapping: second contact closes before first contact opens (not possible with 30° switching angle)
- ☒ Impulse contact, closes momentarily when switching from one position to next

☐ Spring return

Contact Nos. Terminals	Position No.												connection + links
	1	2	3	4	5	6	7	8	9	10	11	12	
1-2													○ 1 3 ○
3-4													○ 2 4 ○
5-6													○ 5 7 ○
7-8													○ 6 8 ○
9-10													○ 9 11 ○
11-12													○ 10 12 ○
13-14													○ 13 15 ○
15-16													○ 14 16 ○
17-18													○ 17 19 ○
19-20													○ 18 20 ○
21-22													○ 21 23 ○
23-24													○ 22 24 ○
25-26													○ 25 27 ○
27-28													○ 26 28 ○
29-30													○ 29 31 ○
31-32													○ 30 32 ○
33-34													○ 33 35 ○
35-36													○ 34 36 ○
37-38													○ 37 39 ○
39-40													○ 38 40 ○
41-42													○ 41 43 ○
43-44													○ 42 44 ○
45-46													○ 45 47 ○
47-48													○ 46 48 ○

SWITCHING ANGLE

- ☐ 90° ☐ 60° ☐ 45° ☐ 30°

(indicate positions in boxes)

Blocking-off between and position

One-way rotation: ☐ right ☐ left

MOUNTING

- ☐ Front ☐ One-hole
☐ Rear ☐ DIN rail
☐ Enclosure

STANDARD PRESENTATION

- ☐ Handle: ☐ small
☐ medium
☐ large
- ☐ Lever: ☐ small ☐ large
 Colour: ☐ grey ☐ black
☐ red
- ☐ Selector switch style handle
- ☐ With key
 Choice of key: ☐ 455 ☐ 1424 A
☐ other.....

LEGEND PLATE AND ENGRAVING

Choice of legend plate:

- ☐ 48 ☐ 64 ☐ 72 ☐ 96
☐ Alu ☐ Black ☐ Red ☐ Yellow

SWITCHING ANGLE

- ☐ Engraving: (use opposite box to specify your engravings)
☐ linear
☐ polygonal

- ☐ Duty label
 (2 x 13 characters) :

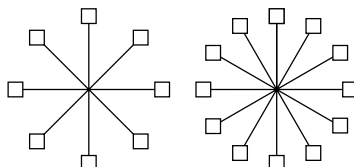
PADLOCKABLE PRESENTATION

- Colour: ☐ yellow/red ☐ grey
 Size: ☐ 48 ☐ 72 ☐ 96

OPTIONS

- ☐ Foolproof handle
- ☐ IP rating: ☐ IP 40 (standard)
☐ IP 55
☐ IP 65
- ☐ Terminal covers
- ☐ Tropicalised version

MARKING OF POSITIONS



YOUR DETAILS

Company:

Name and surname:

Address:

E-mail :

Tel:

Fax:

COMMENTS

YOUR ENGRAVINGS

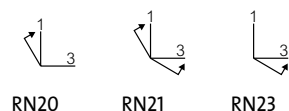
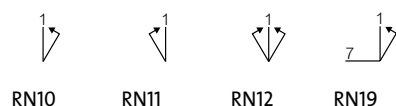
Separate cam switches

Please specify the spring return on the form (p. 287)

► AUTOMATIC SPRING RETURN

REDUCED TYPE RN

Cat. No.



For PR 12

This device makes it possible to incorporate spring returns without extra charge and without increasing switch dimension
Number of spring return contacts per position: max. 2

Price list code

PR 12

-

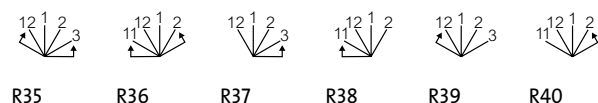
RNxx⁽¹⁾

(1) Complete according to spring return chosen opposite

NORMAL TYPE R

Cat. No.

30°



For PR 12 to PR 63

This device makes it possible to incorporate spring returns without increasing switch dimensions

The maximum number of contacts per spring return position varies according to the rating

The spring return positions are always at 30°

The switching angle is at 30°-45°-90° (for PR 12 to PR 26)

The switching angle is at 45°-90° (for PR 40 and PR 63)

45°



Price list code

PR 12 (4 spring return contacts)

Y652

Rxx⁽¹⁾

PR 17 (4 spring return contacts)

Y639

Rxx⁽¹⁾

PR 21 (4 spring return contacts)

Y639

Rxx⁽¹⁾

PR 26 (4 spring return contacts)

Y639

Rxx⁽¹⁾

PR 40 (2 spring return contacts)

Y640

Rxx⁽¹⁾

PR 63 (2 spring return contacts)

Y640

Rxx⁽¹⁾

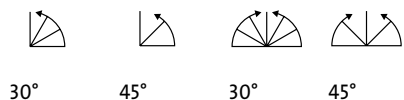
(1) Complete according to spring return chosen opposite

90°



▶ AUTOMATIC SPRING RETURN (CONTINUED)

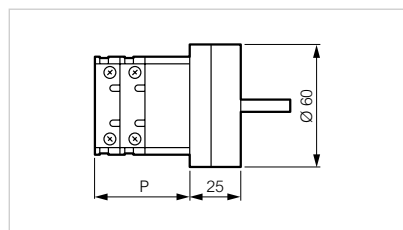
Cat. No.

**Price list code**

PR 12 to PR 26

Y626

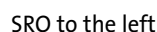
RS



E and S mounting methods (see p. 255)

► MISCELLANEOUS VERSIONS

Cat. No.

**Price list code**

PR 12	Y649	(1)
PR 17 to PR 26	Y642	(1)
PR 40 to PR 160	Y643	(1)

(1) No reference, write “direction of rotation to xxx” in the designation

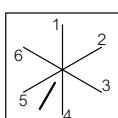
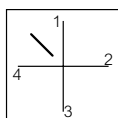
Separate cam switches

► MISCELLANEOUS VERSIONS (CONTINUED)

BLOCKING-OFF BETWEEN 2 POSITIONS

Cat. No.

Examples



For PR 12 to PR 160

This device prevents the switch being turned between 2 consecutive positions.

Indicate which positions (see form on p. 287)

Available for switching angles 90° and 60°

No change to switch dimensions

Not compatible with one-way rotation device (SRO)

	Price list code	
PR 12	-	(1)
PR 17 to PR 26	Y634	(1)
PR 40 to PR 160	Y635	(1)

(1) No reference, write "blocking-off between X and X" in the designation

TROPICALISED VERSION

Cat. No.

For PR 12 to PR 160

(standard on the PR 12)

The cost of this version is calculated as a fixed charge per switch and a variable extra charge (multiplied by the number of contacts)

	Price list code	
PR 12	-	-
PR 17	Y 562 + (Y563 x no. of contacts)	(1)
PR 21	Y 564 + (Y565 x no. of contacts)	(1)
PR 26	Y 566 + (Y567 x no. of contacts)	(1)
PR 40	Y 570 + (Y571 x no. of contacts)	(1)
PR 63	Y 572 + (Y573 x no. of contacts)	(1)
PR 125	Y 578 + (Y579 x no. of contacts)	(1)
PR 160	Y 580 + (Y581 x no. of contacts)	(1)

(1) No reference, write "tropicalised" in the designation

FASTON TERMINALS

Cat. No.

For PR 12 to PR 26

Terminals 6.35 (and/or 2 x 2.8 for PR 12)

Multiply the extra charge by the number of terminals

	Price list code	
PR 12	Y653 (per terminal)	(1)
PR 17 to PR 26	Y620 (per terminal)	(1)

(1) No reference, write out the text and the terminal positions in full in the designation

Separate cam switches

► MISCELLANEOUS VERSIONS (CONTINUED)

REINFORCED IP RATING

Cat. No.

Standard IP rating - IP 40

Price list code

IP 55

For PR 12	Y651	(1)
For PR 17 to PR 160	Y627	(1)
For PR 40-63 (in BCF enclosure)	Y647	(1)

IP 65

For PR 12 to PR 160	Y632	(1)
For PR 12 (in BPR enclosure)	Y632	(1)
For PR 12 to PR 26 (in BC enclosure)	Y663	(1)
For PR 12 to PR 160 (with padlockable presentation)	Y661	(1)
For PR 12 to PR 160 (clutch drive + frame)	Y662	(1)
For PR 12 (ø 22 mounting)	Y667	(1)

(1) No reference, write:
"IPxx" in the designation

SPECIAL SHAFTS

Cat. No.

Shaft with foolproof profile



For PR 12 (E-EZ mounting) ≤ 12 contacts foolproofed shaft	-	D
For PR 17 to PR 160 and PR 12 (other mounting than those below)	Y613	D

Special dimension shaft

Standard dimension - PR 12 to PR 26 = 26 mm - PR 40 to PR 160 = 27 mm		
For PR 12 to PR 160	Y617	(1)

(1) No reference, write:
"shaft dimension xx"
(size of projection in mm)

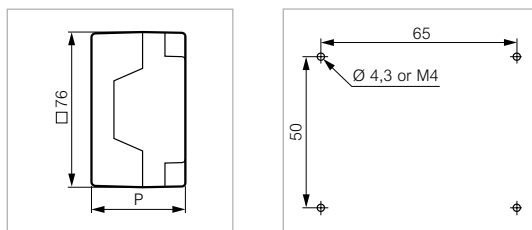
Separate cam switches

► EMPTY ENCLOSURES

TYPE BPR

For PR12*

Cat. No.



Technical specifications (p. 270)
 Delivered with blank aluminium plate
 Possibility to use a padlockable presentation

Price list code

For PR 12 -1-2 contacts
 For PR 12 -3-4 contacts

BPR01
 BPR02

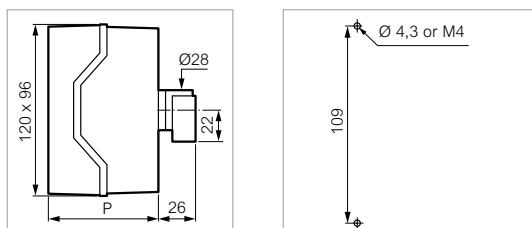
BPR01
 BPR02

P *	Price list code	Contacts
46	BPR01	1-2 CONTACTS
58	BPR02	3-4 CONTACTS

P * = Depth

TYPE BC

Cat. No.



Technical specifications (p. 271)
 With a 64 blank aluminium plate and a black handle
 (see p. 271 for enclosure customisation)
 for PR 12* to PR 26 mounting, bare shaft version

Price list code

For PR 12 -1-2 contacts
 For PR 12 -3-6 contacts
 For PR 12 -7-10 contacts
 For PR 17-21 -1-2 contacts
 For PR 17-21 -3-6 contacts
 For PR 17-21 -7-10 contacts
 For PR 26 -1-2 contacts
 For PR 26 -3-4 contacts
 For PR 26 -5-6 contacts
 For PR 26 -7-8 contacts

BC05Q3
 BC06Q3
 BC07Q3
 BC11Q3
 BC12Q3
 BC13Q3
 BC14Q3
 BC15Q3
 BC16Q3
 BC13Q3

BC05Q3
 BC06Q3
 BC07Q3
 BC11Q3
 BC12Q3
 BC13Q3
 BC14Q3
 BC15Q3
 BC16Q3
 BC13Q3

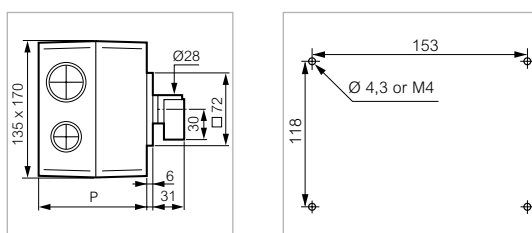
P *	Price list code	Contacts
77	BC01-02-0-06 11-12-14-15	1-6 CONTACTS (1-4 PR26)
101	BC03-04-07 13-16	7-10 CONTACTS (5-8 PR26)

P * = Depth

* Switch version with terminals reversed

TYPE BCF

Cat. No.



For PR40-63
 Technical specifications (p. 272)
 Delivered with a complete
 72-96 plate and frame
 or padlockable presentation

Price list code

For PR 40-63 -1-2 contacts
 For PR 40-63 -3-4 contacts
 For PR 40-63 -5-6 contacts
 For PR 40-63 -7-8 contacts

BCF140
 BCF240
 BCF340
 BCF440

BCF140
 BCF240
 BCF340
 BCF440

P *	Price list code	Contacts
107	BCF140-240	1-4 CONTACTS
145	BCF340-440	5-8 CONTACTS

P * = Depth

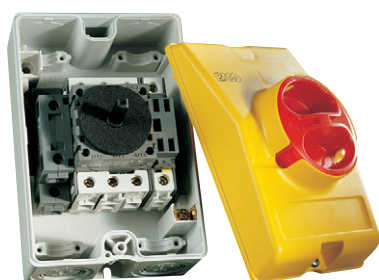
Switch disconnectors

A modular and flexible range



Contact gap
7 mm
(norm >5.5 mm)

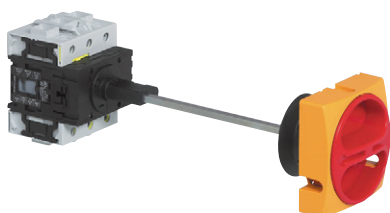
**Reversible
terminal feature**



► IN ENCLOSURE

- Degree of protection: up to IP 66
- For 25A to 100A size switches (see Ithe (A) p. 316)
- Cable entries with pre-formed knockouts
- Tamper-proof cover with padlockable handle
- Recessed area for optional plate
- A wide choice of associated contact blocks and enclosures versions available

Pages 299 and 305



► WITH CLUTCH DRIVE

- Metal cuttable shafts
- With or without door interlock system
- Short or long metal shaft available

Pages 298 and 303

Complete switch disconnectors 20 A

IP 40 as standard, IP 65 on request



Characteristics (p. 316)

FRONT MOUNTING

PADLOCKABLE PRESENTATION

Cat. No.



172921

20 A - non-reversible terminals

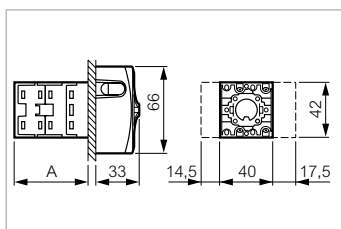
3P

172901

3P+NC/NO(1)

172911

4P

172921(1) Padlock with $\varnothing$ 6 to 8 mm

Dimensions

A: 46 (3P/4P)
56 (3P+NC/NO)

ACCESSORIES

Cat. No.



172945

IP65 seal kit

For front mounting with screws

172945

Terminal covers

For front mounting with screws

172965

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request

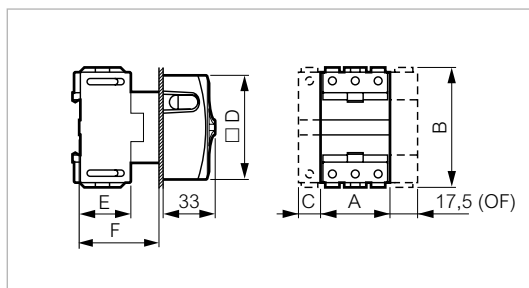


Characteristics (p. 316)

FRONT MOUNTING

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.

IP 20 "finger safe"

Double break type load switching

Red padlockable handle on

yellow plate

Actual position (ON or OFF) clearly visible

Conform to standards:

IEC EN 60947-3

Approved by UL - cUL – Suitable as motor disconnect



172001

Dimensions

A: 44
B: 75.4
C: 14.5
D: □ 66
E: 36
F: 50

25 A

3P

3P+NC/NO ⁽¹⁾

4P neutral on left

172001**172011****172021**

32 A

3P

4P neutral on left

172101**172121**

172201

Dimensions

A: 53.6
B: 85
C: 17.9
D: □ 66
E: 50.3
F: 60

50 A

3P

4P neutral on left

172201**172221**

63 A

3P

4P neutral on left

172301**172321**

172401

Dimensions

A: 71.8
B: 93
C: 26.8
D: □ 86
E: 63.8
F: 70

80 A

3P

4P neutral on left

172401**172421**

100 A

3P

172501

(1) Padlock: ø 6 to 8 mm

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request

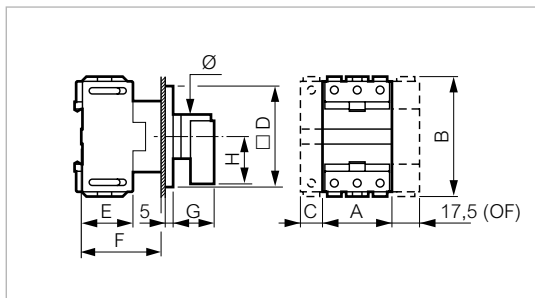


Characteristics (p. 316)

FRONT MOUNTING

WITH PLATE, FRAME AND HANDLE

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Red handle on yellow plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect



172002

Dimensions

A: 44
B: 75.4
C: 14.5
D: □ 64
E: 36
F: 50
G: 26
H: 22
Ø: 28

25 A

3P

172002

32 A

3P

172102



172202

Dimensions

A: 53.6
B: 85
C: 17.9
D: □ 72
E: 50.3
F: 60
G: 26
H: 30
Ø: 28

50 A

3P

172202

63 A

3P

172302



172402

Dimensions

A: 71.8
B: 93
C: 26.8
D: □ 96
E: 63.8
F: 70
G: 31
H: 34
Ø: 42

80 A

3P

172402

100 A

3P

172502

Complete switch disconnectors 25 to 100 A

IP 65

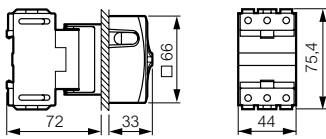


Characteristics (p. 316)

► FRONT MOUNTING

PADLOCKABLE PRESENTATION Ø 22 SINGLE-HOLE MOUNTING

Cat. No.



Safety switch to disconnect and isolate poles.
 IP 20 "finger safe"
 Double break type load switching
 Red handle on yellow plate
 Actual position (ON or OFF) clearly visible
 Conform to standards:
 IEC EN 60947-3
 Approved by UL - cUL – Suitable as motor disconnect

25 A

3P

172003**32 A**

3P

172103

172003

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request

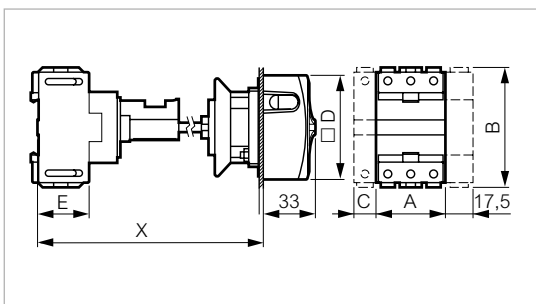


Characteristics (p. 316)

► REAR MOUNTING WITH CLUTCH DRIVE

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.

IP 20 "finger safe"

With clutch drive and
door interlock

Double break type load switching

Red handle on yellow plate

Actual position (ON or OFF) clearly visible

Conform to standards:

IEC EN 60947-3

Approved by UL - cUL – Suitable as motor disconnect



165009

25 A

3P (short shaft)

165009

32A

3P (short shaft)

165109

25 and 32 A dimensions

A: 44
B: 75.4
C: 14.5
D: □ 66
E: 31.5
X: 125 to 250 (short shaft)
250 to 400 (long shaft)

50 and 63 A dimensions

A: 53.6
B: 85
C: 17.9
D: □ 66
E: 42.2
X: 135 to 260 (short shaft)
260 to 410 (long shaft)

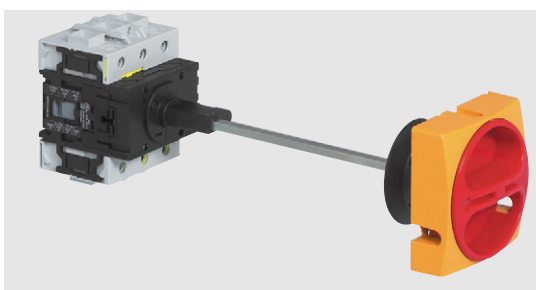
50 A

3P (short shaft)

165209

63 A

3P (short shaft)

165309

165409

80 A

3P (long shaft)

165409

100 A

3P (long shaft)

165509

80 and 100 A dimensions

A: 71.8
B: 93
C: 26.8
D: □ 86
E: 52.6
X: 145 to 270 (short shaft)
270 to 420 (long shaft)

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request
and IP 66 on enclosure version with integral handle version

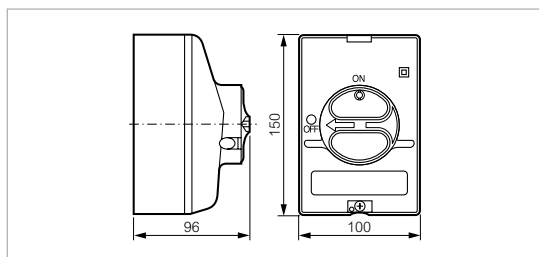


Characteristics (p. 316)

► ENCLOSURES

INTEGRAL PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
With clutch drive and
door interlock
Double break type load switching
Red handle on yellow plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3

IP 66 - IK 07

20 A

3P

3P+NC/NO ⁽¹⁾

4P

172961

172971

172981

25 A

3P

3P+NC/NO ⁽¹⁾

172061

172071

32 A

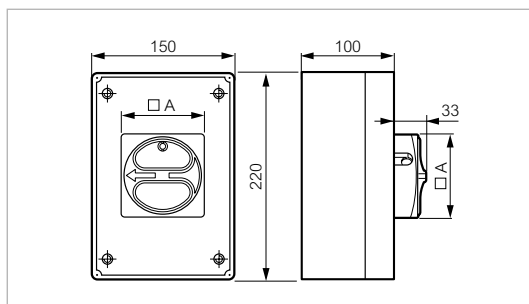
3P

172161



172061

PADLOCKABLE PRESENTATION



IP 40 ⁽²⁾

50 A

3P

172261

63 A

3P

172361

80 A

3P

172461

100 A

3P

172561

⁽¹⁾ Padlock: Ø 6 to 8 mm

⁽²⁾ IP 65 seal kit ref. 172267 (50 to 63 A)
172277 (80 to 100 A)



172261

50 and 63 A dimensions

A: ☐ 66

80 and 100 A dimensions

A: ☐ 86

Complete switch disconnectors 20 A

IP 40 as standard, IP 65 on request
Grey presentation



Characteristics (p. 316)

FRONT MOUNTING

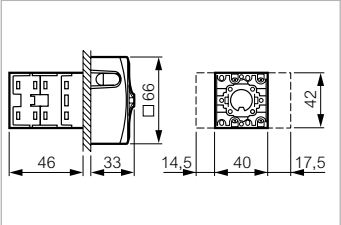
PADLOCKABLE PRESENTATION	Cat. No.
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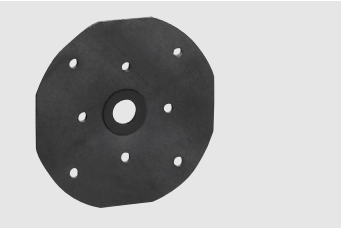
174901

20 A - non-reversible terminals
3P

174901



ACCESSORIES	Cat. No.
-------------	----------



172945

IP 65 seal kit
For front mounting with screws

172945

Terminal covers
For front mounting with screws

172965

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request
Grey presentation

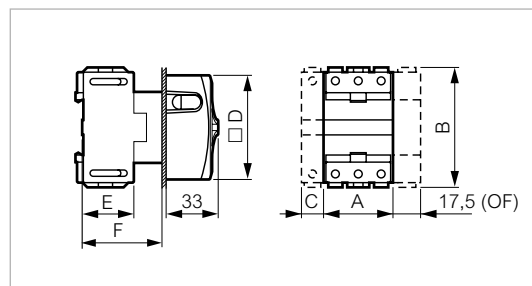


Characteristics (p. 316)

FRONT MOUNTING

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.

IP 20 "finger safe"

Double break type load switching

Grey padlockable handle on

grey plate

Actual position (ON or OFF) clearly visible

Conform to standards:

IEC EN 60947-3

Approved by UL - cUL – Suitable as motor disconnect



174001

Dimensions

A: 44
B: 75.4
C: 14.5
D: □ 66
E: 36
F: 50

25 A

3P

174001

32 A

3P

174101



174301

Dimensions

A: 53.6
B: 85
C: 17.9
D: □ 66
E: 50.3
F: 60

50 A

3P

174201

63 A

3P

174301



174401

Dimensions

A: 71.8
B: 93
C: 26.8
D: □ 86
E: 63.8
F: 70

80 A

3P

174401

100 A

3P

174501

(1) Padlock: ø 6 to 8 mm

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request
Grey presentation

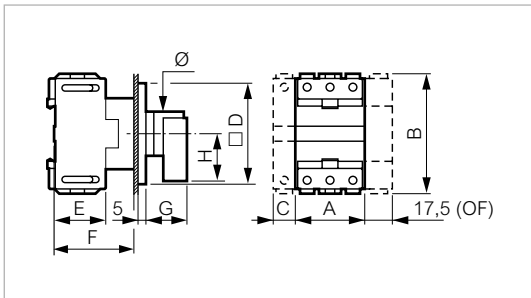


Characteristics (p. 316)

FRONT MOUNTING

WITH PLATE, FRAME AND HANDLE

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Black handle on aluminium plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
UL - cUL approved – Suitable as motor disconnect



174002

Dimensions

A: 44
B: 75.4
C: 14.5
D: □ 64
E: 36
F: 50
G: 26
H: 22
Ø: 28

25 A

3P

174002

32 A

3P

174102



174202

Dimensions

A: 53.6
B: 85
C: 17.9
D: □ 72
E: 50.3
F: 60
G: 26
H: 30
Ø: 28

50 A

3P

174202

63 A

3P

174302



174402

Dimensions

A: 71.8
B: 93
C: 26.8
D: □ 96
E: 63.8
F: 70
G: 31
H: 34
Ø: 42

80 A

3P

174402

100 A

3P

174502

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request
Grey presentation

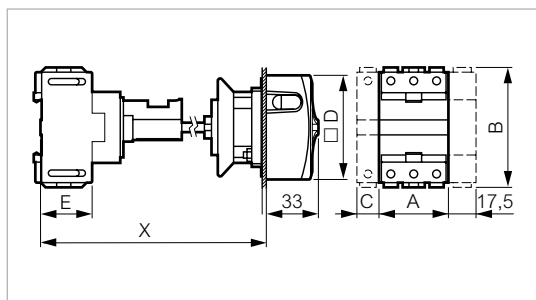


Characteristics (p. 316)

► REAR MOUNTING

PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
With clutch drive and door interlock
Double break type load switching
Grey padlockable handle on grey plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect

25 A

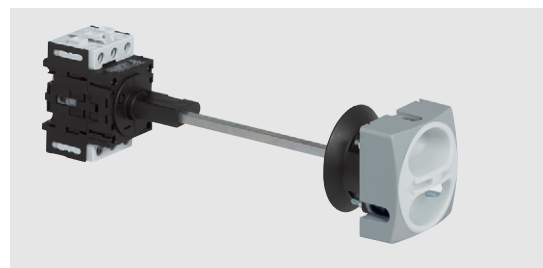
3P (short shaft)

168009

32A

3P (short shaft)

168109



165009

25 and 32 A dimensions

A: 44
B: 75.4
C: 14.5
D: □ 66
E: 31.5
X: 125 to 250 (short shaft)
250 to 400 (long shaft)

50 and 63 A dimensions

A: 53.6
B: 85
C: 17.9
D: □ 66
E: 42.2
X: 135 to 260 (short shaft)
260 to 410 (long shaft)

50 A

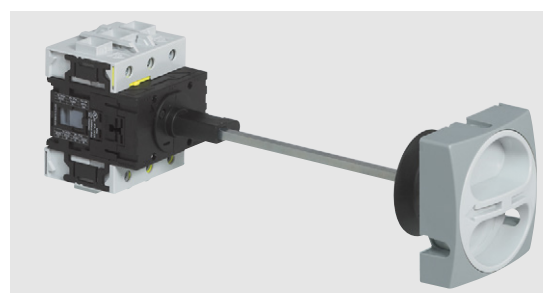
3P (short shaft)

168209

63 A

3P (short shaft)

168309



165409

80 and 100 A dimensions

A: 71.8
B: 93
C: 26.8
D: □ 86
E: 42.6
X: 145 to 270 (short shaft)
270 to 420 (long shaft)

80 A

3P (long shaft)

168409

100 A

3P (long shaft)

168509

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request
Grey presentation

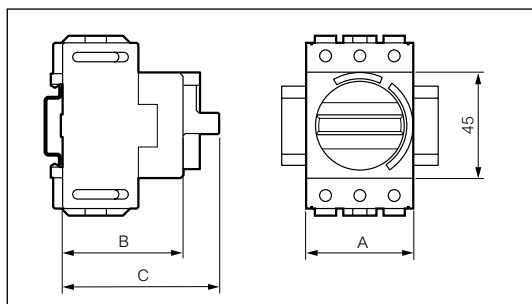


Characteristics (p. 316)

► REAR MOUNTING

MODULAR IN-PANEL PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
Double break type load switching
Black handle on grey plate
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3
Approved by UL - cUL – Suitable as motor disconnect



174005

Dimensions

A: 44
B: 53
C: 79

25 A

3P

174005

32 A

3P

174105



174205

Dimensions

A: 53.6
B: 63
C: 89

50 A

3P

174205

63 A

3P

174305



174405

Dimensions

A: 71.8
B: 73
C: 99

80 A

3P

174405

100 A

3P

174505

Complete switch disconnectors 25 to 100 A

IP 40 as standard, IP 65 on request and
IP66 on enclosure version with integral handle version
Grey presentation

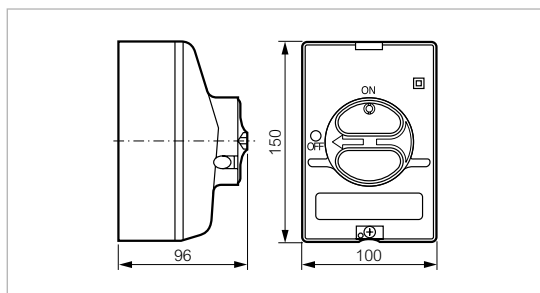


Characteristics (p. 316)

► ENCLOSURES

INTEGRAL PADLOCKABLE PRESENTATION

Cat. No.



Safety switch to disconnect and isolate poles.
IP 20 "finger safe"
With clutch drive and
door interlock
Double break type load switching
Grey padlockable handle
Actual position (ON or OFF) clearly visible
Conform to standards:
IEC EN 60947-3

IP 66 - IK 07

25 A
3P

174061

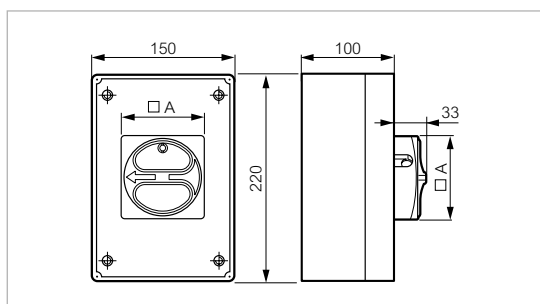
32 A
3P

174161



174061

PADLOCKABLE PRESENTATION



IP 40 ⁽¹⁾

50 A
3P

174261

63 A
3P

174361

80 A
3P

174461

100 A
3P

174561

(1) IP 65 with seal ref. 172267 (50 to 63 A)
172277 (80 to 100 A)



174261

50 and 63 A dimensions
A: □ 66

80 and 100 A dimensions
A: □ 86

Separate switch disconnectors - 25 and 32 A



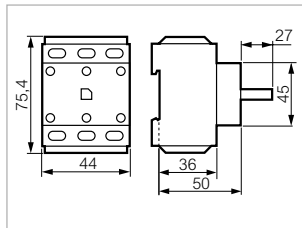
Characteristics (p. 316)

► BLOCKS

Cat. No.



172000



3-pole switch body without presentation

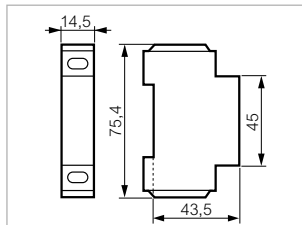
25 A
32 A

172000
172100



172065

172185



Additional pole
(for use in enclosure only)

25 A
32 A

172075
172175

Additional pole without rear screw
(Rear mounting only)

32 A

172174

Neutral pole

25 A
32 A

172065
172165

Junction block

⏏ or N

172185

Auxiliary contact

NC/NO

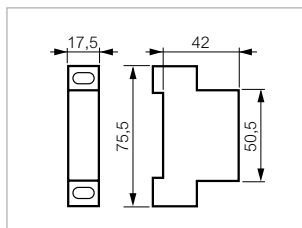
172179

1 pole early break

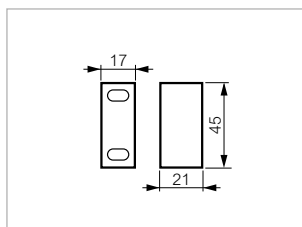
172195



172179



172195



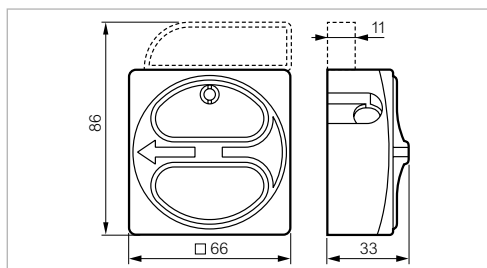
Separate switch disconnectors - 25 and 32 A



Characteristics (p. 316)

► PRESENTATION

Cat. No.



Padlockable presentation

Padlock with $\varnothing 6$ to 8 mm

- ☐ 66 - Yellow/Red
- ☐ 66 - Grey
- ☐ 66 - $\varnothing 22$ single-hole-mounting - Yellow/Red

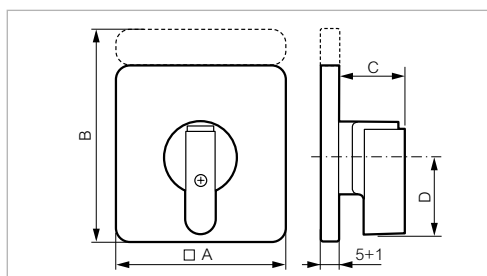
172601

174601

172603



172601



With plate, frame and handle

- ☐ 64 - Yellow/Red
- ☐ 48 - $\varnothing 22$ single-hole-mounting - Yellow/Red

172602

172604



172602

Dim. Ref. 172 602

A: $\square 64$

B: 80

Dim. ref. 172 604

A: $\square 48$

B: 65

Separate switch disconnectors - 25 and 32 A



Characteristics (p. 316)

► EMPTY ENCLOSURES

PADLOCKABLE PRESENTATION

Cat. No.



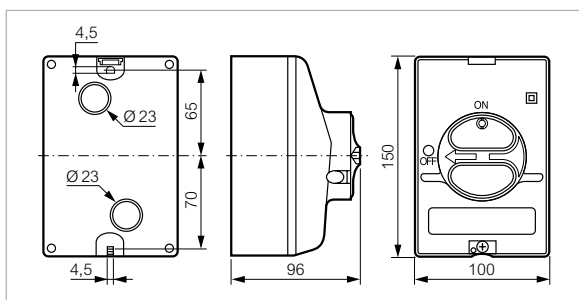
172399

Dimensions 150 x 100 x 96 mm
Supplied with padlockable handle,
weatherproof seal and relay terminal
For 3 and 4-pole switches
with and without NC/NO

IP66-IKo7

Grey base - yellow cover - red handle
Grey base - grey cover - grey handle

172399
174399

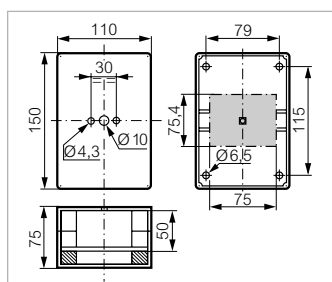


WITHOUT PRESENTATION

Cat. No.



172549



Grey - Up to 4 poles + auxiliary contact
150 x 110 x 75 mm

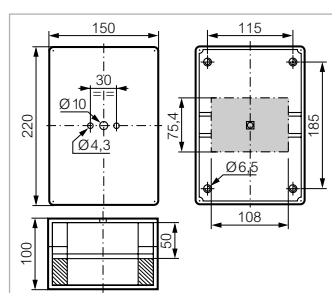
172549

PADLOCKABLE OR WITHOUT PRESENTATION

Cat. No.



172559



Grey - Up to 6 poles + auxiliary contact
220 x 150 x 100 mm

172559

Separate switch disconnectors - 25 and 32 A



Characteristics (p. 316)

► ACCESSORIES

		Cat. No.
 172167	Terminal covers	
	For 3-pole body switch	172167
	For additional pole, neutral pole or junction block	172177
	For auxiliary contact NC/NO (pair)	172189
	For early break auxiliary contact	172199
 174569	Connection terminal kit	
	Terminal connection for ground or neutral	174449
 174189	Self-adhesive plates (for enclosures)	
	Blank	174599
	Engraved INTER PRINCIPAL	174559
	Engraved MAIN SWITCH	174569
 172177	Duty labels	
	Blank	172629
	Engraved INTER PRINCIPAL	172639
	Engraved MAIN SWITCH	172649
	Kit for clutch drive presentation	
	Short shaft without door interlock	174189
	Long shaft without door interlock	174199
	Without shaft and without door interlock	174179
	Kit for door interlock	174249
	IP 65 seal kit	
	For front mounting switches and enclosures	
	Padlockable □ 66	
	or plate and frame □ 64 or □ 72	172267
	Padlockable □ 86	
	or plate and frame □ 96	172277
	For rear mounting switches with clutch drive	
	Padlockable □ 66	
	or plate and frame □ 64 or □ 72	174259
	Padlockable □ 86	
	or plate and frame □ 96	174269

Separate switch disconnectors - 50 and 63 A



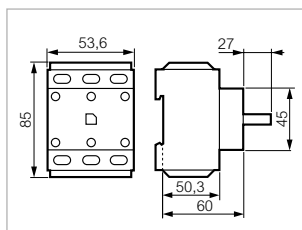
Characteristics (p. 316)

► BLOCKS

Cat. No.



172300



3-pole body switch without presentation

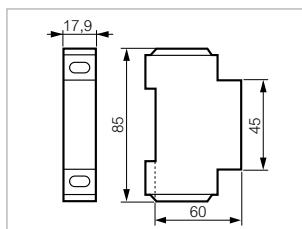
50 A
63 A

172200
172300



172375

172385



Additional pole
(for use in enclosure only)

50 A
63 A

172275
172375

Neutral pole

50 A
63 A

172265
172365

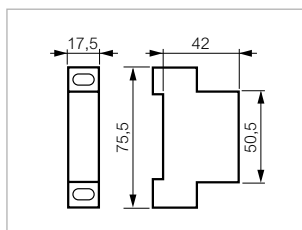
Junction block

⏏ or N

172385



172179



Auxiliary contact

NC/NO

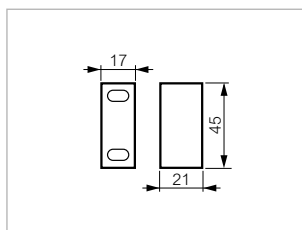
172179

1 pole early break

172395



172395



Separate switch disconnectors - 50 and 63 A



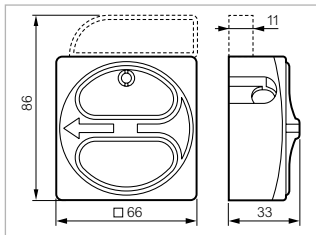
Characteristics (p. 316)

PRESENTATION

Cat. No.



172061



Padlockable presentation

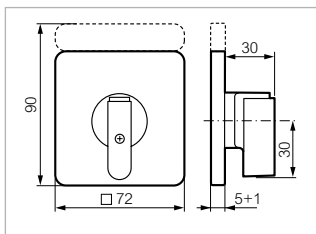
Padlock: $\varnothing$ 6 to 8 mm

- ☐ 66 - Yellow/Red
- ☐ 66 - Grey

172601
174601



172612



With plate, frame and handle

- ☐ 72 - Yellow/Red

172612

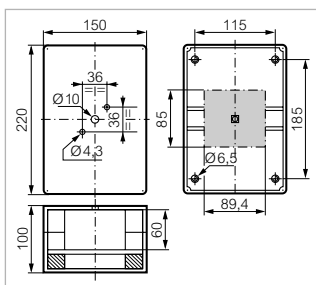
EMPTY ENCLOSURES

WITHOUT PRESENTATION

Cat. No.



172569

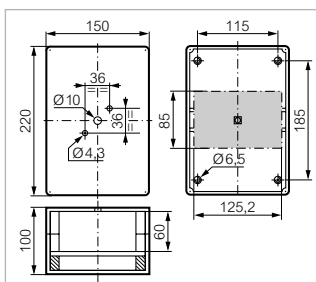


Grey - Up to 4 poles + auxiliary contact
220 x 150 x 100 mm

172569



172579



Grey - Up to 6 poles + auxiliary contact
220 x 150 x 100 mm

172579

Separate switch disconnectors - 50 and 63 A



Characteristics (p. 316)

► ACCESSORIES

		Cat. No.
 172367	Terminal covers	
	For 3-pole switch	172367
	For additional pole, neutral pole or junction block	172377
	For NC/NO auxiliary contact (pair)	172189
	For early break auxiliary contact	172199
 172649	Duty labels	
	Blank	172629
	Engraved INTER PRINCIPAL	172639
	Engraved MAIN SWITCH	172649
 172267	Kit for clutch drive presentation	
	Short shaft without door interlock	174189
	Long shaft without door interlock	174199
	Without shaft and without door interlock	174179
	kit for door interlock	174249
	IP 65 seal kit	
	For front mounting switches and enclosures	
	Padlockable □ 66	
	or plate and frame □ 64 or □ 72	172267
	Padlockable □ 86	
	or plate and frame □ 96	172277
	For rear mounting with clutch drive	
	Padlockable □ 66	
	or plate and frame □ 64 or □ 72	174259
	Padlockable □ 86	
	or plate and frame □ 96	174269

Separate switch disconnectors - 80 and 100 A



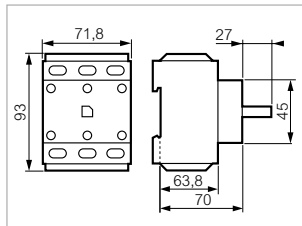
Characteristics (p. 316)

► BLOCKS

Cat. No.



172400



3-pole body switch without presentation

80 A
100 A

172400
172500



172475



172465

Additional pole (for use in enclosure only)

80 A
100 A

172475
172575

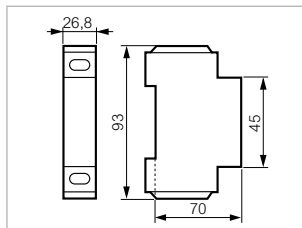
Neutral pole

80 A
100 A

172465
172565



172585



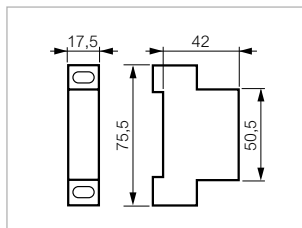
Junction block

⏏ or N

172585



172179



Auxiliary contact

NC/NO

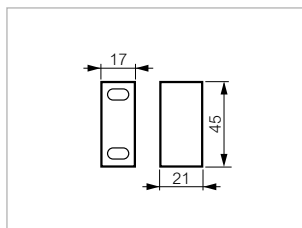
172179

1 pole early break

172595



172595



Separate switch disconnectors - 80 and 100 A



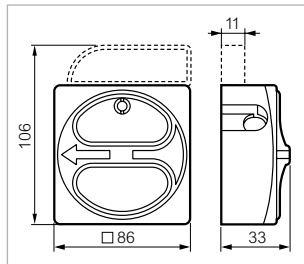
Characteristics (p. 316)

PRESENTATION

Cat. No.



172621



Padlockable presentation

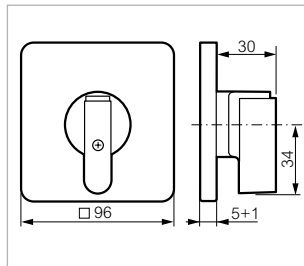
Padlock: $\varnothing$ 6 to 8 mm

- ☐ 86 - Yellow/Red
- ☐ 86 - Grey

172621
174621



172622



With plate, frame and handle

- ☐ 96 - Yellow/Red

172622

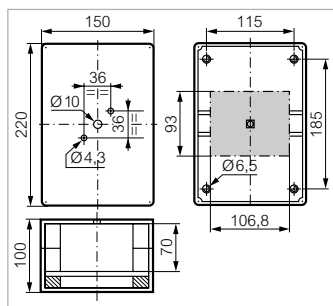
EMPTY ENCLOSURES

WITHOUT PRESENTATION

Cat. No.



172589

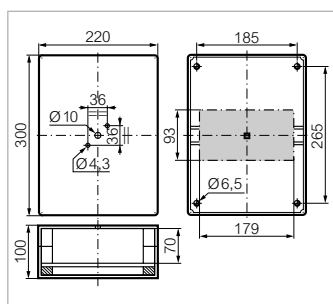


Grey - Up to 3 poles + auxiliary contact
220 x 150 x 100 mm

172589



172599



Grey - Up to 6 poles + auxiliary contact
300 x 200 x 100 mm

172599

Separate switch disconnectors - 80 and 100 A



Characteristics (p. 316)

► ACCESSORIES

		Cat. No.
 172567	Terminal covers	
	For 3-pole body switch	172567
	For additional pole, neutral pole or junction block	172577
	For NC/NO auxiliary contact (pair)	172189
	For early break auxiliary contact	172199
 172649	Duty labels	
	Blank	172629
	Engraved INTER PRINCIPAL	172639
	Engraved MAIN SWITCH	172649
 172267	Kit for clutch drive presentation	
	Short shaft without door interlock	174189
	Long shaft without door interlock	174199
	Without shaft and without door interlock	174179
	kit for door interlock	174249
	IP 65 seal kit	
	For front mounting switches and enclosures	
	Padlockable □ 66 or plate and frame □ 64 or □ 72	172267
	Padlockable □ 86 or plate and frame □ 96	172277
	For rear mounting with clutch drive	
	Padlockable □ 66 or plate and frame □ 64 or □ 72	174259
	Padlockable □ 86 or plate and frame □ 96	174269

Technical characteristics

► GENERAL

Characteristics	20 A	25 A	32 A	50 A	63 A	80 A	100 A
► Rated insulation voltage U_i (V)	690	690	690	690	690	690	690
► Conventional free air thermal current I_{th}							
Uninterrupted rated current I_u (A)	20	25	32	50	63	80	100
► Conventional enclosed thermal current I_{the} (A)	16	20	25	40	50	63	80
► Rated impulse withstand voltage (overvoltage category III - pollution degree 3 U_{imp} (kV)	4	6	6	6	6	6	6
► Rated operating current I_e (A) AC - 21 A/22 A Conform to IEC 60947-3	16	25	32	50	63	80	100
► Rated operating power (kW)							
AC 23 A 3 x 230 V	4	5.5	5.5	15	15	18.5	22
3 x 400 V	7.5	7.5	11	18.5	22	30	37
3 x 500 V	5.5	7.5	11	22	30	37	45
3 x 690 V	4	7.5	11	18.5	22	22	30
AC 3 3 x 230 V	3	4	4	7.5	11	15	18.5
3 x 400 V	4	5.5	7.5	15	18.5	22	30
3 x 500 V	5.5	5.5	7.5	15	22	30	37
3 x 690 V	3	5.5	7.5	15	18.5	18.5	22
► Make - break characteristics ($A_{eff}/400$ V)							
Rated make capacity	-	710	710	1270	1270	1970	1970
Rated break capacity	-	330	330	800	800	800	800
► Short circuit characteristics							
Rated short term withstand current I_{cw} ($A_{eff}/400$ V/1 s)	250	350	430	500	760	1100	1500
Rated short circuit make capacity I_{cm} (kA peak/400 V)	-	1	1	1.8	1.8	2.8	2.8
Short circuit current (kA $e_{ff}/400$ V)	6	10	10	10	10	10	10
with fuse gI/gG (A)	16	25	32	50	63	80	100
► Mechanical life AC 20 (million)	1	0.1	0.1	0.04	0.04	0.04	0.04
► Connections							
Stranded wire + (min/max) cap (mm ²)	0.75/2.5	0.75/6	0.75/6	1.5/16	1.5/16	2.5/35	2.5/35
Solid wire (mm ²)	4	10	10	25	25	50	50
► Storage temperature	-30°C to +70 °C						
► Operating temperature	- 30°C to +70 °C						
► Protection rating	rear of panel: IPxxB front of panel IP 40 in standard version (IP 65 on request)						
► Conformity to standards	IEC 60947-3, UL508, CSA22.2						
► Approvals	UL - cUL (USA - Canada) suitable as motor disconnect. CB certification						
► Climatic resistance							
Tropical atmosphere according to	IEC 60068-2-30 Cyclic damp heat						

Technical characteristics

AUXILIARY CONTACTS

Characteristics	20 A	25 A	32 A	50 A	63 A	80 A	100 A
▶ Rated insulation voltage U_i (V)	400	400	400	400	400	400	400
▶ Conventional free air thermal current I_{th}							
Continuous rated current I_u (A)	20	10	10	10	10	10	10
▶ Rated operating current I_e (A)							
AC 15							
230 V	6	6	6	6	6	6	6
400 V	-	4	4	4	4	4	4
▶ PROTECTION AGAINST SHORT CIRCUIT BY FUSE gG (A)	16	10	10	10	10	10	10
▶ Max. connection stranded wire (mm ²)	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5	2 x 2.5

ENCLOSURES

Characteristics	150x100x96	220x150x100	220x150x100	220x150x100	220x150x100	300x200x100
▶ Rating +NC/NO	20, 25 and 32 A 3P to 4P +NC/NO 20 A - 6P	25 and 32 A 6P and 6P +NC/NO	50 and 63 A 3P to 4P +NC/NO	50 and 63 A 6P and 6P +NC/NO	80 and 100 A 3P and 3P +NC/NO	80 et 100 A 4P to 6P
▶ Cable inputs	2 x 2 Pg 16 OR 2 x 2 M25	2 x 2 Pg 21	2 x 2 Pg 21	2 x 2 Pg 29	2 x 2 Pg 29	2 x 2 Pg 21 and 2 x 2 Pg 29
▶ Ø knockouts (mm)	Pg 16: 22.5 ISO M25: 25	28.5	28.5	37.5	37.5	37.5 and 28.5
▶ No. of knockouts (top and bottom)	2	2	2	2	2	4
▶ Panel mount	by 2 screws	by 4 screws				
▶ Base/cover assembly	by 1 screws self-tapping stainless steel	by 4 screws self-tapping stainless steel				by 6 screws self-tapping stainless steel
▶ Switch/base assembly	on 35 mm DIN rail (this rail is notched for positioning the switch)					
▶ Handles mounting	screwing on shaft pre-pierced cover					
▶ Insulation	Class II installed (provided that the correct insulation plugs are used with the enclosure)					
▶ Impact withstand	IK07					
▶ Flameproof	650°C					
▶ Protection rating	IP 66	IP 40 (IP 65 upon request)				
▶ Contact operating diagram	1/L1 3/L2 5/L3 2/T1 4/T2 6/T3 Switch disconnector 13 21 14 22 Auxiliary contacts 0 1 1/L1 - 2/T1 3/L2 - 4/T2 5/L3 - 6/T3 13 - 14 21 - 22					
▶ Switch padlocking	In general: up to 3 padlocks ø 4 to 8 mm Switch with 1 auxiliary contact NC/NO: up to 3 padlocks ø 6 to 8 mm Modular presentation: 1 padlock ø 6 to 8 mm					

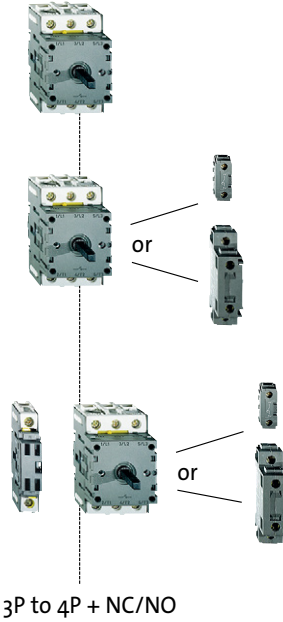
Enclosure selection guide

► 25 AND 32 A

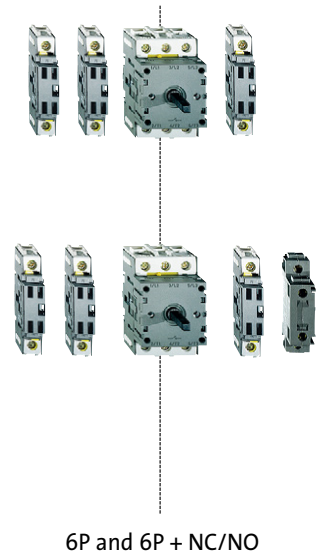


Example: switch disconnect 32 A
Enclosed 4 poles,
padlockable presentation

Enclosure 150 x 100 x 96 mm



Enclosure 220 x 150 x 100 mm

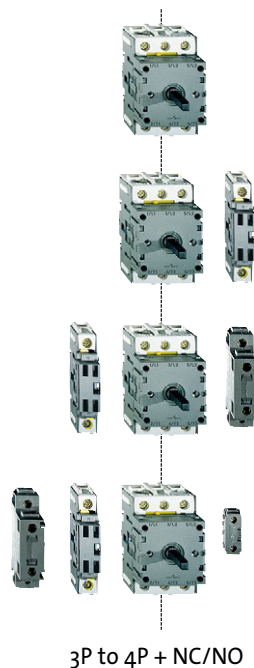


► 50 AND 63 A

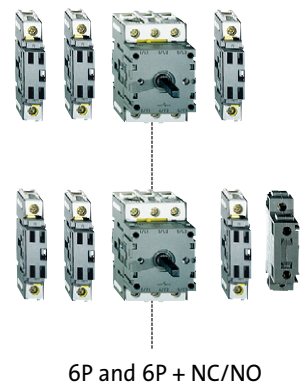


Example: switch disconnect 50 A
Enclosed 6 poles,
Plate, frame and handle presentation

Enclosure 220 x 150 x 100mm



Enclosure 220 x 150 x 100 mm



Enclosure selection guide

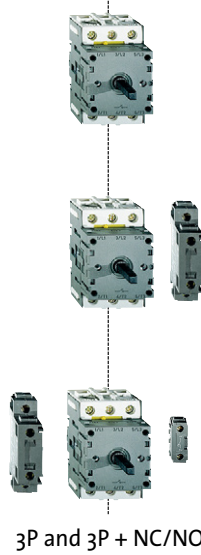
► 80 AND 100 A

Enclosure 220 x 150 x 100 mm

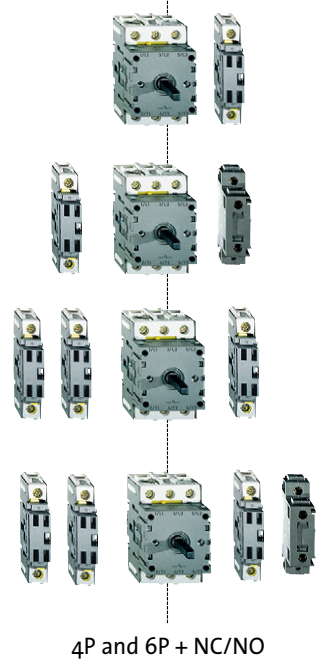
Enclosure 300 x 220 x 100 mm



Example: switch disconnecter 100 A
Enclosed 4 poles,
padlockable presentation



3P and 3P + NC/NO



4P and 6P + NC/NO

LEGEND



basic 3-pole block



additional pole
additional neutral pole
junction block

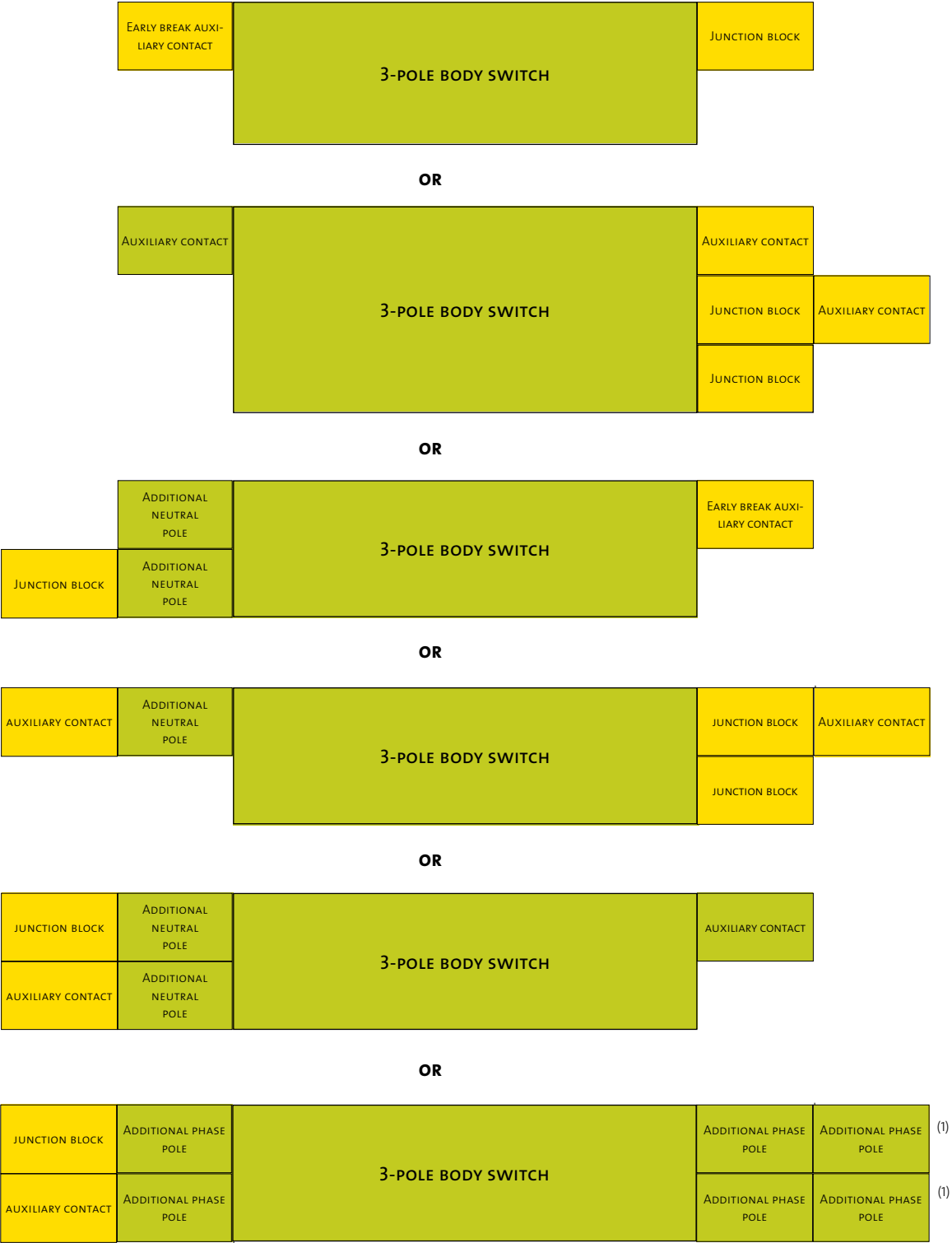


Auxiliary contact NC/NO



early break auxiliary contact

Possible configurations



(1) version with enclosure only

 Complete switch disconnecter p. 284 to 295
 Permitted auxiliaries

Protection class

The IP (Ingress Protection) rating system is published by the IEC (International Electrotechnical Commission) and classifies the degree of protection against solid objects and liquids in order to operate the electrical equipment.

IP XX
1 2

1 Protection Against Solid Objects

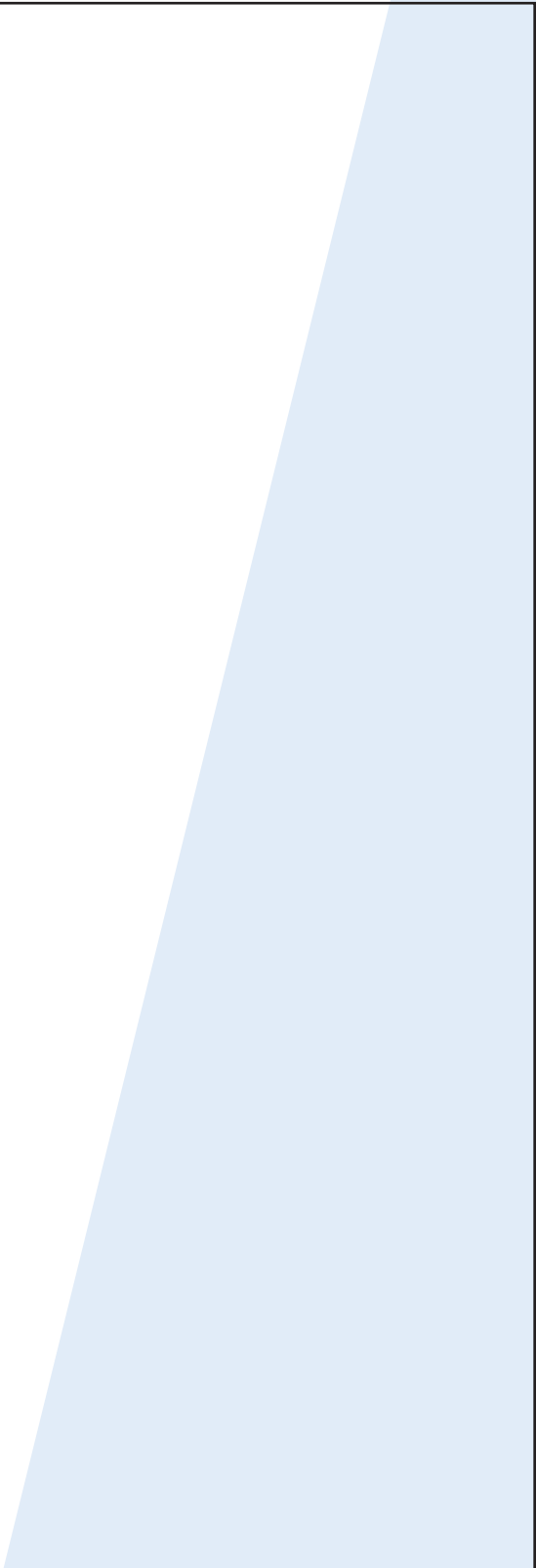
2 Protection Against Liquids

First digit of IP-Codes

1.digit		Meaning	
ISO 20653	IEC 60529	Protection against objects	Effective against
0	0	No protection	No protection
1	1	Solid objects $\geq 50\text{mm}$	Any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part
2	2	Solid objects $\geq 12.5\text{mm}$	Fingers or similar objects
3	3	Solid objects $\geq 2.5\text{mm}$	Tools, thick wires, etc.
4	4	Solid objects $\geq 1\text{mm}$	Most wires, screws, etc.
5K	5	Dust protected	Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact
6K	6	Dust tight	No ingress of dust; complete protection against contact

Second digit of IP-Codes

2.digit		Meaning
ISO 20653	IEC 60529	Protection against water
0	0	No protection
1	1	Dripping water (vertically falling drops) shall have no harmful effect.
2	2	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position.
3	3	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect.
4	4	Water splashing against the enclosure from any direction shall have no harmful effect.
5	5	Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.
6	6	Water projected in powerful jets (12.5 mm nozzle) against the enclosure from any direction shall have no harmful effects.
7	7	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion).
8	8	The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer. Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.
	9	Protected against close-range high pressure, high temperature spray downs.
9K		Protected against close-range high pressure, high temperature spray downs, specific for cars.



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