

Heads, blocks and connection...

designed to last!



LOCKING RING

► 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

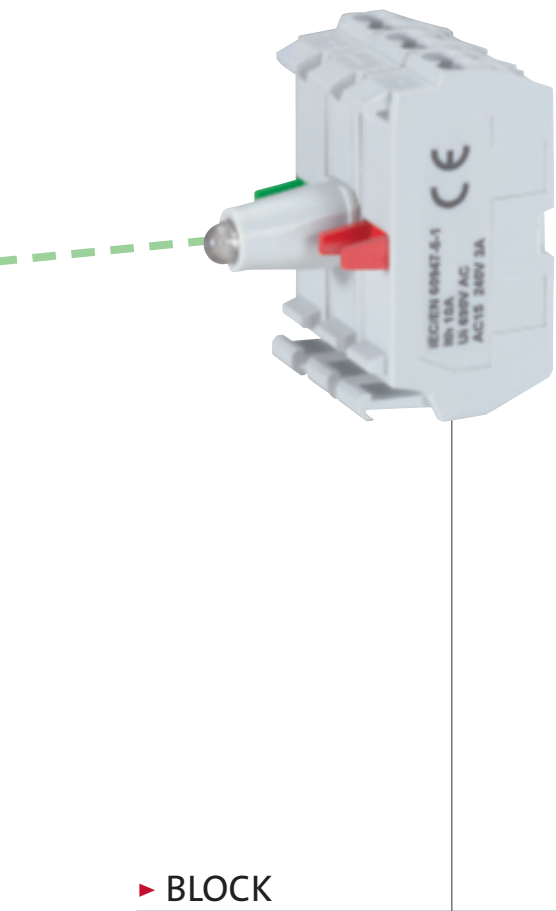
See pages 23 to 50

► 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**

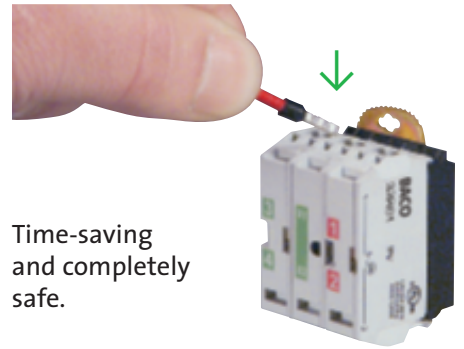
“Imagatively designed to be safe, robust and durable”

- 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

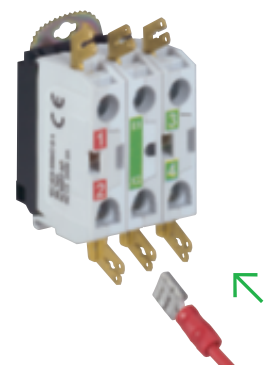


Time-saving and completely safe.

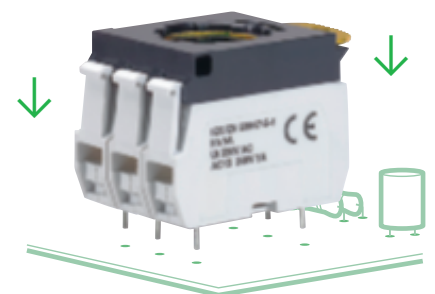
SCREW TERMINALS



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

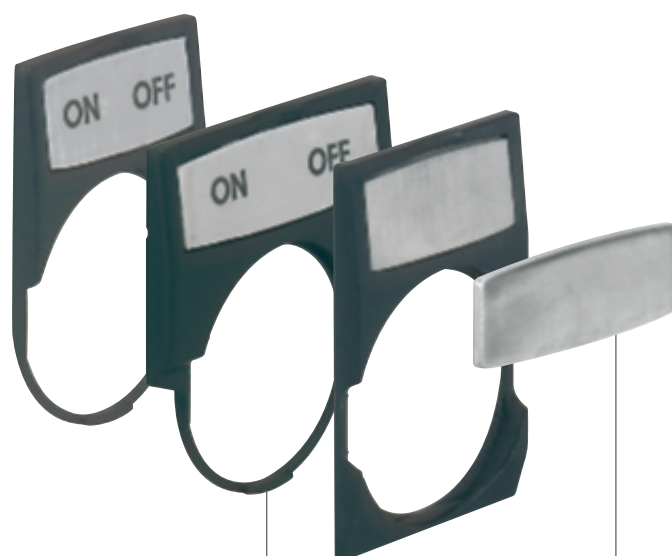
► **MARKING WITH LEGENDS**

- 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



Bezels

Choice between:
black or chrome



Frame

round or square shape,
30 or 40 mm wide

Legend plate

can be clipped into
place after installation

Engraving

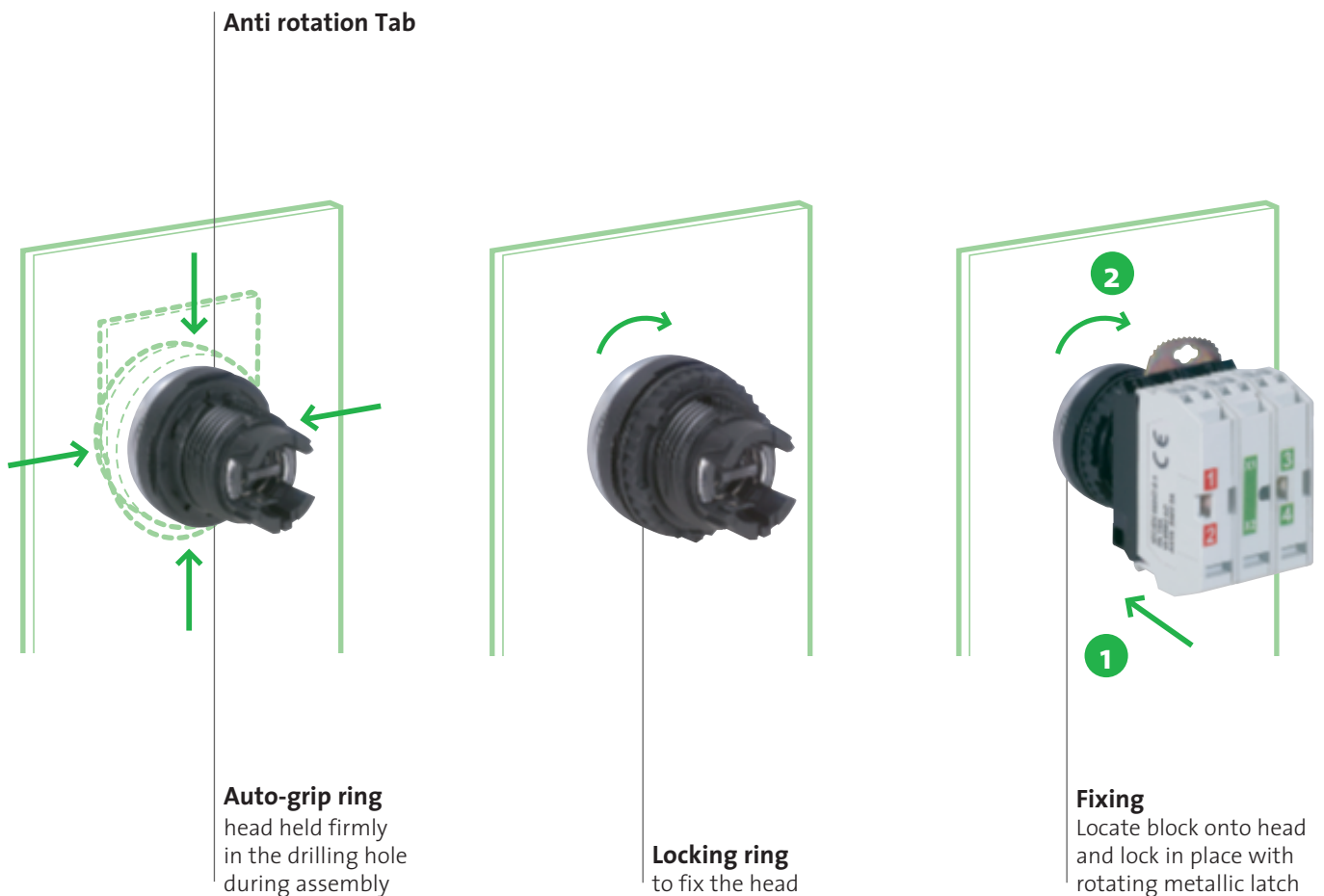
Button plate can be mounted in
4 positions (0° ; 90° ; 180° and 270°)

► **READY-ASSEMBLED CONTROL STATION**

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



Simplicity, speed, choice!



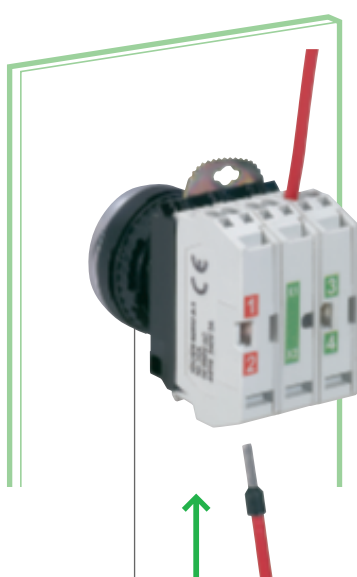
► ADVANTAGES

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”

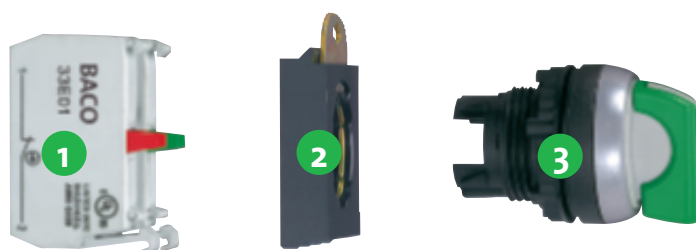
COMPLETE UNITS

- 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

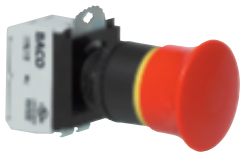


Products for industrial environments

► 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 | Trucking/Transportation |
| Food processing | Mobile Machines |
| Pharmaceutical | Material Handling |
| Petrochemical | Marine |
| Waste Treatment | Metal Forming |
| Bottling | Mining |
| Car Wash Centers | Oil & Gas |

Degree of ingress protection

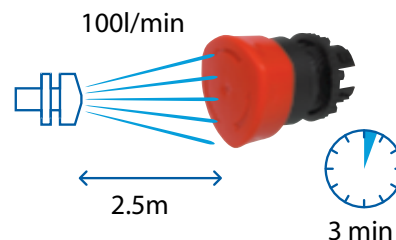
► WHAT IS THE MEANING OF IP 66/67/69K PROTECTION DEGREE?

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.

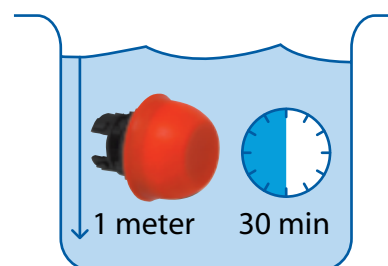
► WATERPROOF ACCORDING TO IP 66

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

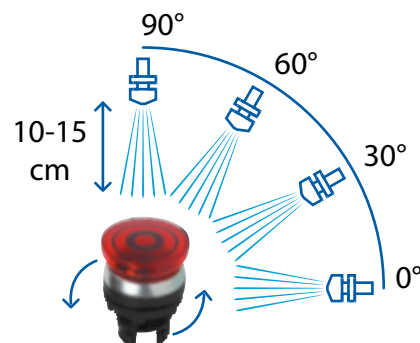
BACO's control & pilot devices are perfect for tough environments where a waterproof enclosure is required. Shrouded modular devices are approved according to IP 67. The products are protected against the effects of temporary immersion in water, one meter down, for up to 30 minutes.



► 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 \varnothing 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)

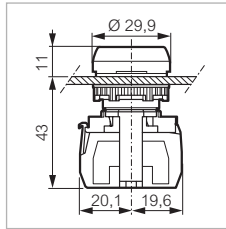
► SPRING RETURN - NON ILLUMINATED

FLUSH

Cat. No.

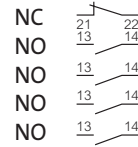


L21AA02A



Without engraving

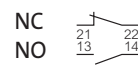
- Red
- Green
- Black
- Yellow
- Blue



- L21AA01B**
- L21AA02A**
- L21AA03A**
- L21AA04C**
- L21AA06A**

With engraving

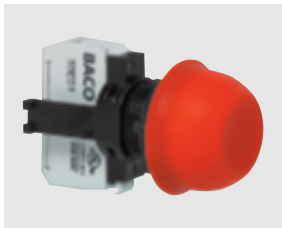
- Red
- Green



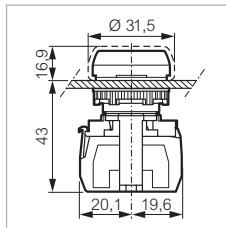
- L21AA81B**
- L21AA82B**

FLUSH

Reinforced degree of protection: IP 67

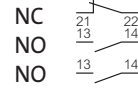


L22AF01A



Supplied with opaque shroud

- Red
- Green
- Black

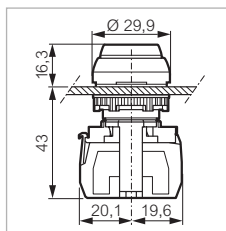


- L22AF01A**
- L22AF02A**
- L22AF03A**

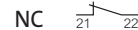
PROJECTING



L21AB01A



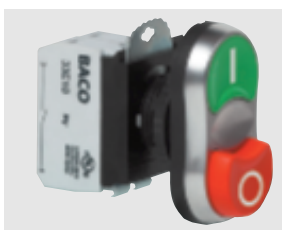
- Red



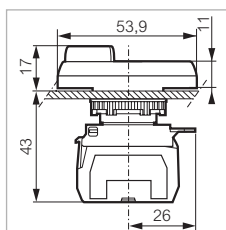
- L21AB01A**

FLUSH-PROJECTING

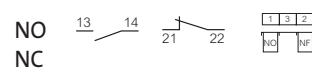
Double touch - degree of protection: IP 66



L61QB21A



- Green - Flush
- Red - Projecting



- L61QB21A**

Complete units: Selector switches \varnothing 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

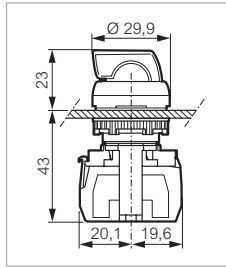
 Characteristics (p. 98)

▶ SELECTOR SWITCHES - NON ILLUMINATED

WITH HANDLE

2 positions

Cat. No.



Stay-put positions - 90°

● Black



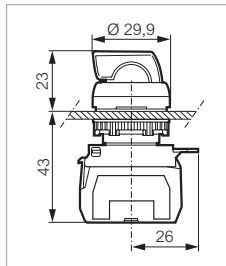
L21KE03B

L21KE03B

WITH HANDLE

3 positions

Cat. No.



Stay-put positions - 45°

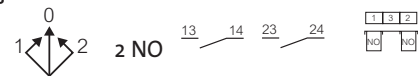
● Black



L21MA03A

Spring return to 0 - 45°

● Black



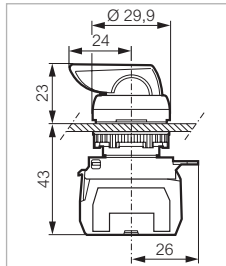
L21MD03A

L21MA03A

WITH LONG HANDLE

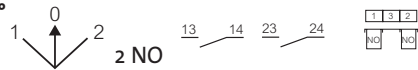
3 positions

Cat. No.



Stay-put positions - 45°

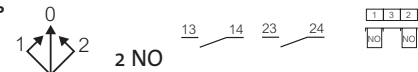
● Black



L21MR03A

Spring return to 0 - 45°

● Black



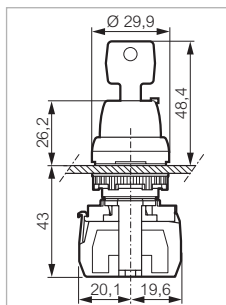
L21MU03B

L21MR03A

WITH KEY

2 positions

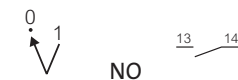
Cat. No.



Supplied with 2 keys profile n° 455

Stay-put positions - 45°

Key free
in position 0



L21LA00G

L21LA00G

Complete units: Mushroom heads \varnothing 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

\varnothing 40 - SPRING RETURN

Push

Cat. No.



L21AD01C

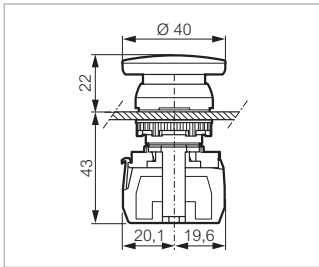
Plastic chrome bezel
 Black bezel on request (form p. 83)

● Red

NC



L21AD01C



\varnothing 40 - STAY-PUT

Push-turn to reset

Cat. No.



L22ED01D

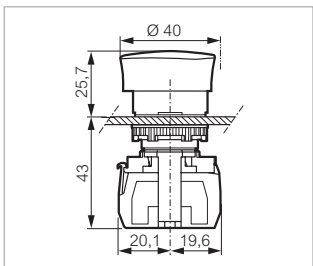
Black bezel

● Red

NC



L22ED01D



Complete units: Mushroom heads ϕ 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)


ϕ 40 - STAY-PUT

Push-pull to reset

Cat. No.

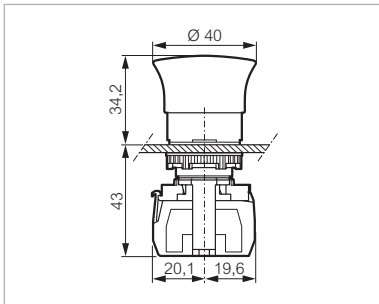


● Red

NC 

L22DD01A

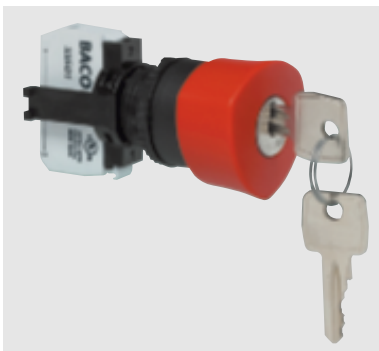
L22DD01A



ϕ 40 - STAY-PUT


Key to reset

Cat. No.



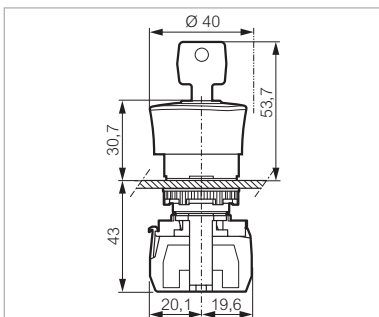
Supplied with 2 keys profile n°455

● Red

NC 

L22GM01E

L22GM01E



Complete units: Mushroom heads \varnothing 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



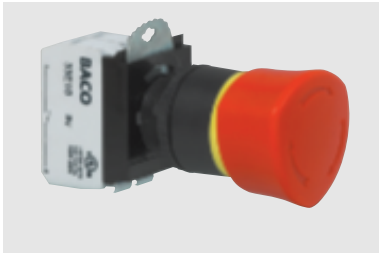
Characteristics (p. 98)

► ISO 13850 EMERGENCY STOP - NON ILLUMINATED

\varnothing 40 ISO 13850 - STAY-PUT

Push-turn to reset

Cat. No.



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

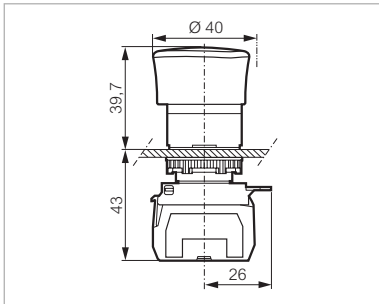
● Red

NO + NC 13 14 21 22



L22ER01D

L22ER01D



\varnothing 40 ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



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

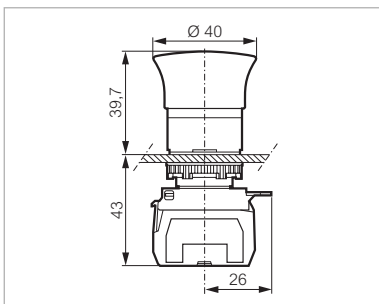
● Red

NO + NC 13 14 21 22



L22DR01B

L22DR01B



Complete units: Mushroom heads \varnothing 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



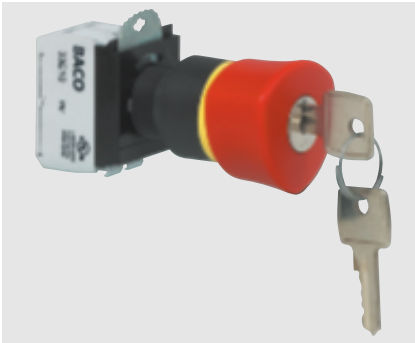
Characteristics (p. 98)

► ISO 13850 EMERGENCY STOP - NON ILLUMINATED

\varnothing 40 ISO 13850 - STAY-PUT

Key to reset

Cat. No.

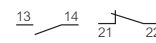


L22GR01B

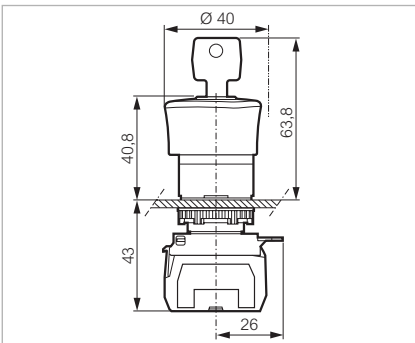
Double position indicator: head and collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / ISO 13850
 Supplied with 2 keys profile n°455

● Red

NO + NC



L22GR01B



\varnothing 54 ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator

Cat. No.



L22DU01G

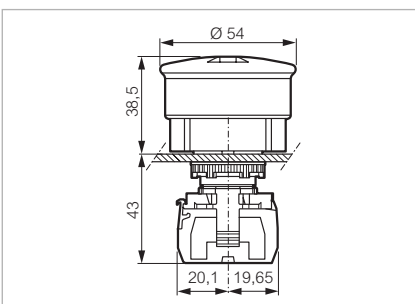
Double position indicator: head and collar
 Compliant with the requirements of emergency stop:
 IEC 60947-5-5 / ISO 13850
 Flag indicator: Engraving STOP and I

● 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)

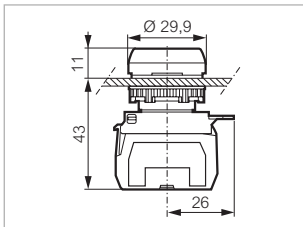
► SPRING RETURN - ILLUMINATED

FLUSH

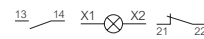
Cat. No.



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

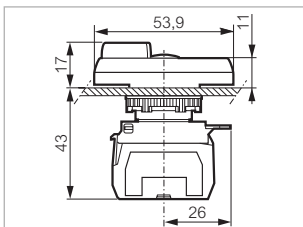
- L21AH10H**
- L21AH20H**

TWIN TOUCH - FLUSH-PROJECTING

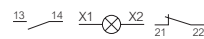
Degree of protection: IP 66



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**

Complete units: Selector switches \varnothing 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 - ILLUMINATED

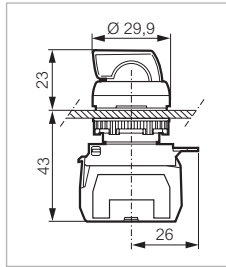
WITH HANDLE

2 positions

Cat. No.



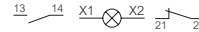
L21KG10C



LED blocks

Stay-put positions - 45°
 24 V

- Red
- Green
- Black



- NO + NC
- NO + NC
- NO + NC



- L21KG10C**
- L21KG20E**
- L21KG30B**

Complete units: Pilot lights \varnothing 22

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



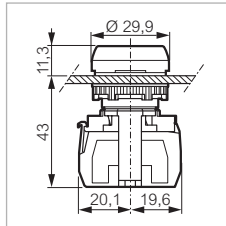
Characteristics (p. 98)

▶ 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)

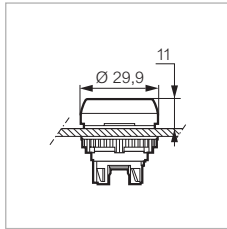
► PUSH-BUTTONS - NON ILLUMINATED

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)



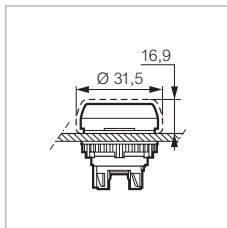
L21AA00

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 \varnothing 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)

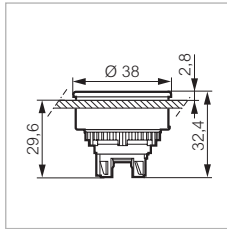
SPRING RETURN - SUPER FLUSH

Degree of protection: IP 66

Cat. No.



L23AA02



Metallic chrome bezel
 Cut-out \varnothing 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

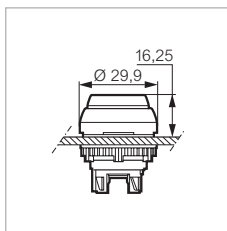
- L23AA31
- L23AA32
- L23AA33
- L23AA34
- L23AA35
- L23AA36

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

SPRING RETURN - PROJECTING



L21AB01



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

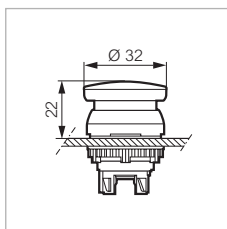
- L21AB01**
- L21AB02**
- L21AB03**
- L21AB04**
- L21AB05**
- L21AB06**

SPRING RETURN - MUSHROOM HEAD \varnothing 32

Push



L21AC03



- Red
- Green
- Black
- Yellow

- L21AC01**
- L21AC02**
- L21AC03**
- L21AC04

Separate units \varnothing 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



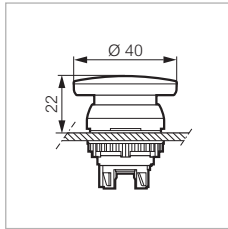
Characteristics (p. 98)

► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

SPRING RETURN - MUSHROOM HEAD \varnothing 40

Push

Cat. No.



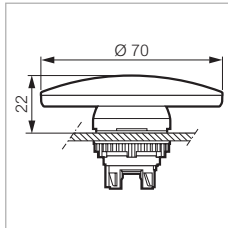
- Red
- Green
- Black
- Yellow
- Blue

L21AD01
L21AD02
L21AD03
L21AD04
L21AD06

L21AD01

SPRING RETURN - MUSHROOM HEAD \varnothing 70

Push



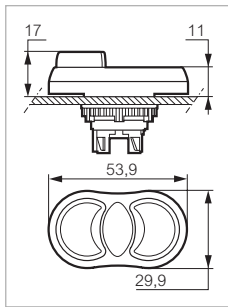
- Red
- Black

L21AE01
L21AE03

L21AE03

SPRING RETURN - FLUSH-PROJECTING

Double touch - degree of protection: IP 66



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

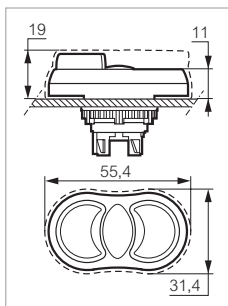
L61QB21

L61QB21B

L61QB21

SPRING RETURN - FLUSH-PROJECTING

Double touch - reinforced degree of protection: IP 67



Supplied with transparent shroud

- Green
- Red

L62QM21

L62QM21

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 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)

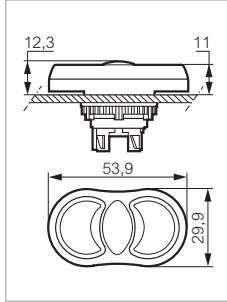
SPRING RETURN - FLUSH-FLUSH









Double touch - degree of protection: IP 66

Cat. No.



L61QA21



-  Green
-  Red
-  Green engraving \triangleleft
-  Green engraving \triangleright
-  Green
-  Green
-  Black
-  Black

L61QA21

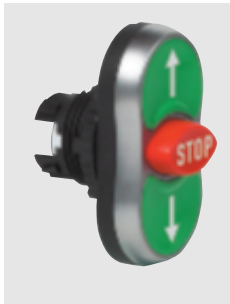
L61QA22

L61QA22K

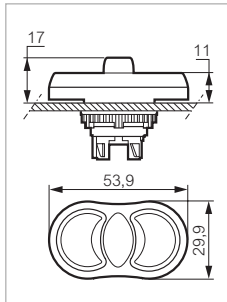
L61QA33C







SPRING RETURN - FLUSH-PROJECTING-FLUSH

Triple touch - degree of protection: IP 66



L61BA22



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

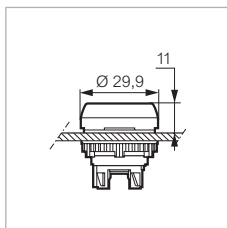
L61BA22

L61BA22B

STAY-PUT - FLUSH



L21CA01



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

L21CA01
L21CA02
L21CA03
L21CA04
L21CA05
L21CA06

Separate units ϕ 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)

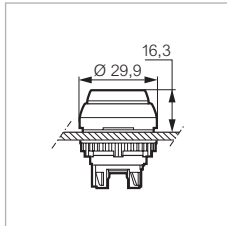
► PUSH-BUTTONS - NON ILLUMINATED (CONTINUED)

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

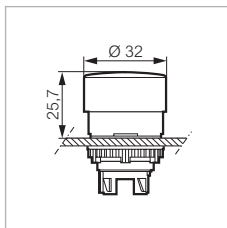
► MUSHROOM HEADS - NON ILLUMINATED

ϕ 32 - STAY-PUT

Push-turn to reset



L22EC01



- Red
- Green
- Black
- Yellow

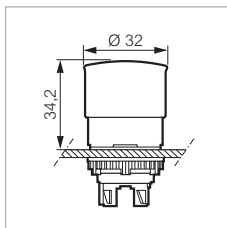
- L22EC01**
- L22EC02
- L22EC03**
- L22EC04

ϕ 32 - STAY-PUT

Push-pull to reset



L22DC01



- Red

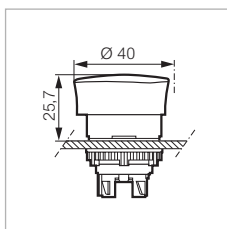
- L22DC01

ϕ 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 \varnothing 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



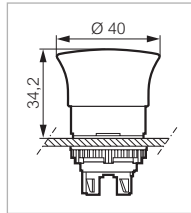
Characteristics (p. 98)

► MUSHROOM HEAD - NON ILLUMINATED (CONTINUED)

\varnothing 40 - STAY-PUT

Push-pull to reset

Cat. No.



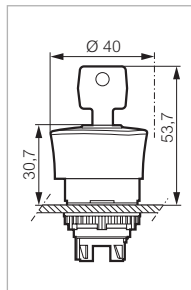
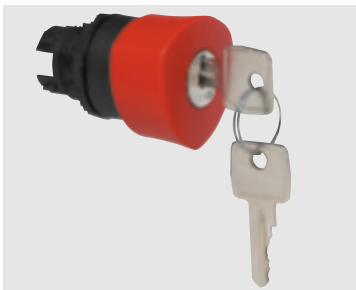
- Red
- Black

L22DD01
L22DD03

L22DD01

\varnothing 40 - STAY-PUT

Key to reset



Supplied with 2 keys profile n° 455

- Red

L22GM01

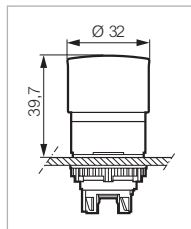
L22GM01

► ISO 13850 EMERGENCY STOP - NON ILLUMINATED

\varnothing 32 ISO 13850 - STAY-PUT

Push-pull

Cat. No.



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

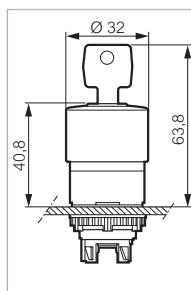
- Red

L22DQ01

L22DQ01

\varnothing 32 ISO 13850 - STAY-PUT

Key to reset



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

L22GQ01

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

Separate units \varnothing 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



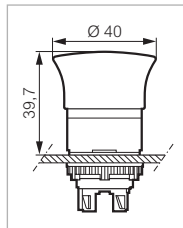
Characteristics (p. 98)

► ISO 13850 EMERGENCY STOP - NON ILLUMINATED (CONTINUED)

\varnothing 40 ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



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

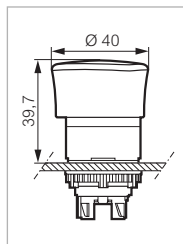
● Red

L22DR01

L22DR01

\varnothing 40 ISO 13850 - STAY-PUT

Push-turn to reset



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

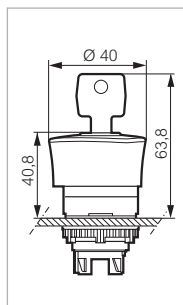
L22ER01

L22ER01K

L22ER01

\varnothing 40 ISO 13850 - STAY-PUT

Key to reset



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

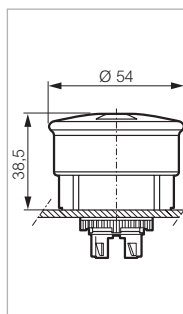
● Red

L22GR01

L22GR01

\varnothing 54 ISO 13850 - STAY-PUT

Push-pull to reset with flag indicator



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

L22DU01

Separate units \varnothing 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

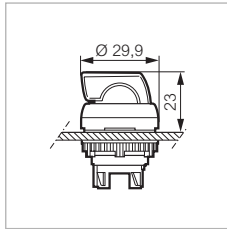
WITH HANDLE

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 \varnothing 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)

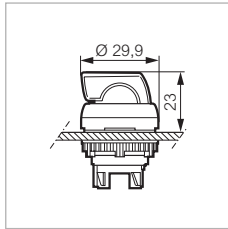
WITH HANDLE

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 \varnothing 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)

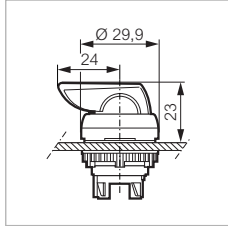
WITH LONG HANDLE

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 \varnothing 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)

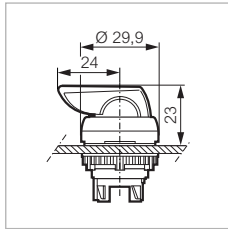
WITH LONG HANDLE

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 \varnothing 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)

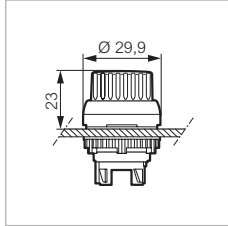
WITH KNOB

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



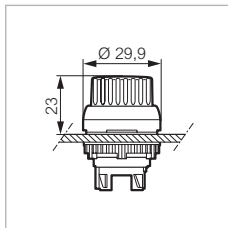
L21TF03

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 \varnothing 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)

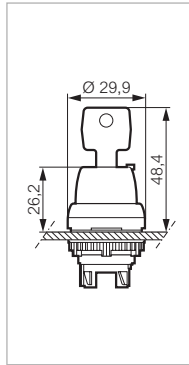
WITH KEY

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 \varnothing 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)

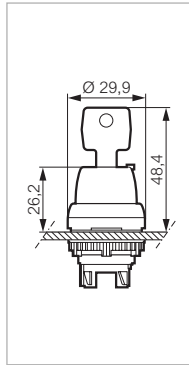
WITH KEY

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 \varnothing 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)

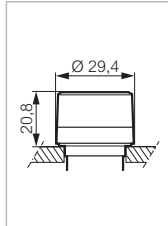
► ADJUSTABLE MECHANICAL PUSH/RESET BUTTON - NON ILLUMINATED

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

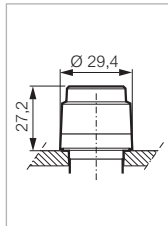
- Red
- Green
- Black
- Yellow
- White
- Blue

- 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

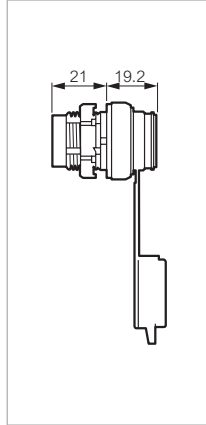


Characteristics (p. 98)

► USB INTERFACE 3.0 TYPE A/A CONNECTION

Degree of protection: IP 65

Cat. No.



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

L21VB03

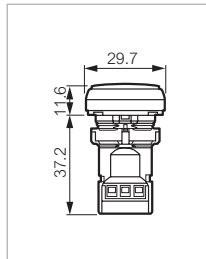
Recommended fixing tool: Tightening flat wrench size 26 mm

L21VB03

► AUDIBLE WARNING BUZZERS

Degree of protection: IP 66, IP 69K

Cat. No.



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

L22VA03L

Separate units \varnothing 22: Heads

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

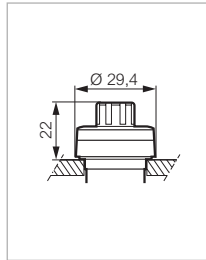


Characteristics (p. 98)

► BUTTON FOR POTENTIOMETER - NON ILLUMINATED

Degree of protection: IP 65

Cat. No.



Head + mounting base for potentiometer
Plastic chrome bezel

Shaft \varnothing 6 or 6.35 mm
Potentiometer length 46 to 51 mm

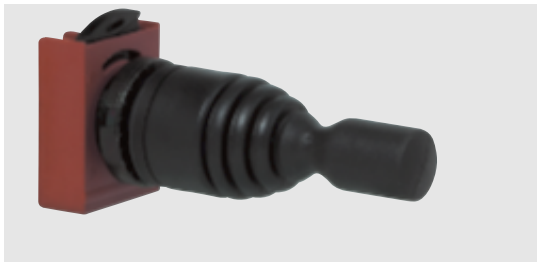
L21RP03

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



LMV4F

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

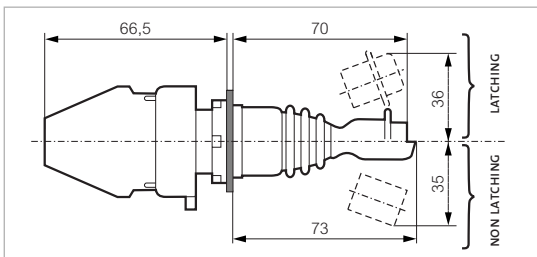
4 maintained (stay-put) A
 |
 C - 0 - D
 |
 B

LMV4F

4 spring-return

A
|
C → 0 ← D
|
B

LMV4A



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)

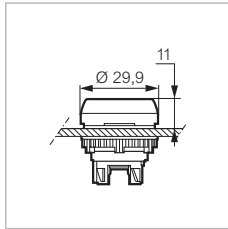
► PUSH-BUTTONS - ILLUMINATED

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



L21AH00

Without button plate

L21AH00

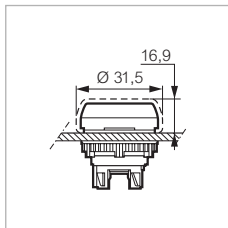
Button plates (p. 78)

SPRING RETURN - FLUSH

Reinforced degree of protection: IP 67



L22AP40



Supplied with transparent shroud

- Red
- Green
- Yellow
- White
- Blue

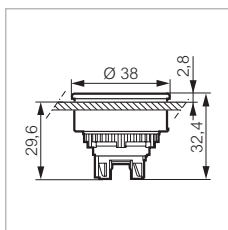
L22AP10
 L22AP20
 L22AP40
 L22AP50
 L22AP60

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 \varnothing 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

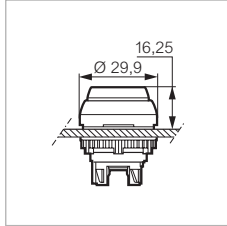


Characteristics (p. 98)

► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

SPRING RETURN - PROJECTING

Cat. No.



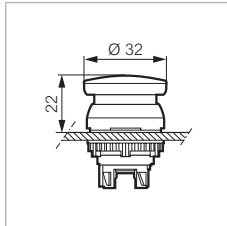
- Red
- Green
- Yellow
- White
- Blue

- L21AK10**
- L21AK20**
- L21AK40**
- L21AK50**
- L21AK60**

L21AK20

SPRING RETURN - MUSHROOM HEAD \varnothing 32

Push



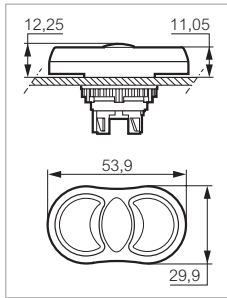
- Red
- Green
- Yellow
- White

- L21AL10**
- L21AL20**
- L21AL40**
- L21AL50**

L21AL10

SPRING RETURN - FLUSH-FLUSH

Double touch - degree of protection: IP 66



Central part illuminated

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

L61QH21

L61QH22V

L61QH21A

L61QH21

Separate units \varnothing 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)

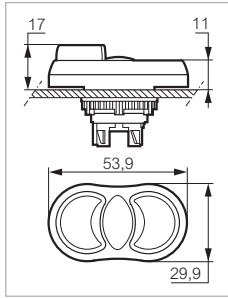
SPRING RETURN - FLUSH-PROJECTING

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

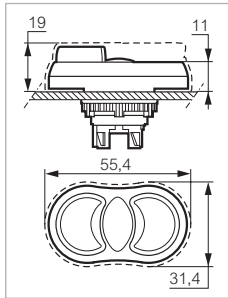
L61QK21A

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 \varnothing 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)

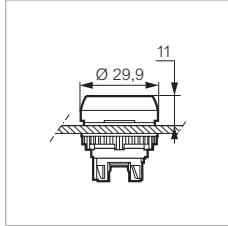
► PUSH-BUTTONS - ILLUMINATED (CONTINUED)

STAY-PUT - FLUSH

Cat. No.



L21CH20



- Red
- Green
- Yellow
- White
- Blue

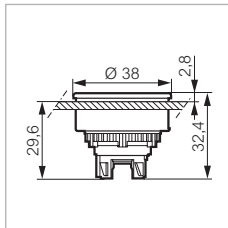
- L21CH10**
- L21CH20**
- L21CH40**
- L21CH50**
- L21CH60**

STAY-PUT - SUPER FLUSH

Degree of protection: IP 66



L23CH10



Metallic chrome bezel
 Drilling \varnothing 30,5 mm

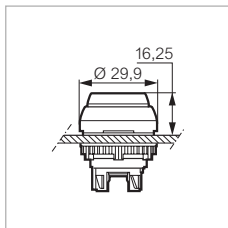
- Red
- Green
- Yellow
- White
- Blue

- L23CH10**
- L23CH20**
- L23CH40**
- L23CH50**
- L23CH60**

STAY-PUT - PROJECTING



L21CK20



- Red
- Green
- Yellow
- White
- Blue

- L21CK10**
- L21CK20**
- L21CK40**
- L21CK50**
- L21CK60**

Separate units \varnothing 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

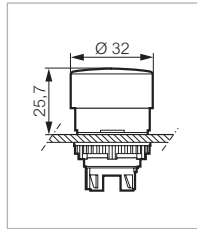
 Characteristics (p.98)

► MUSHROOM HEADS - ILLUMINATED

\varnothing 32 - STAY-PUT

Push-turn to reset

Cat. No.



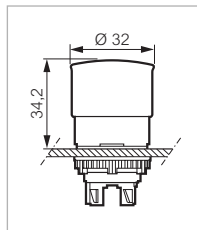
● Red

L22EL10

L22EL10

\varnothing 32 - STAY-PUT

Push-pull to reset



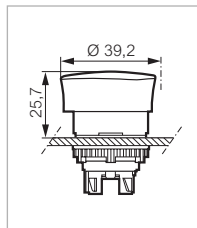
● Red

L22DL10

L22DL10

\varnothing 40 - STAY-PUT

Push-turn to reset



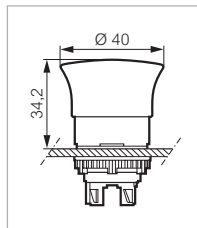
● Red
 ● Green
 ● Yellow

L22EM10
L22EM20
L22EM40

L22EM10

\varnothing 40 - STAY-PUT

Push-pull to reset



● Red
 ● Green
 ● Yellow
 ○ White

L22DM10
L22DM20
L22DM40
L22DM50

L22DM10

Separate units \varnothing 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



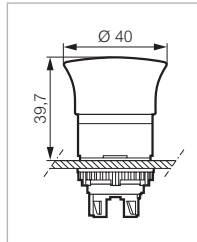
Characteristics (p. 98)

► ISO 13850 EMERGENCY STOP - ILLUMINATED

\varnothing 40 ISO 13850 - STAY-PUT

Push-pull to reset

Cat. No.



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

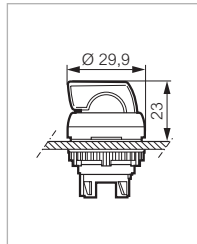
L22DN10

► SELECTOR SWITCHES - ILLUMINATED

WITH HANDLE

2 positions

Cat. No.



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 \varnothing 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

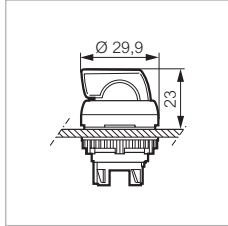
WITH HANDLE

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 \varnothing 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)

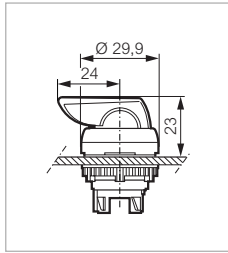
WITH LONG HANDLE

2 positions

Cat. No



L21KV30



Stay-put positions - 45°

● Black



L21KV30

Stay-put positions - 45°

● Black



L21KX30

Spring return - 45°

● Black



L21KY30

Separate units \varnothing 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)

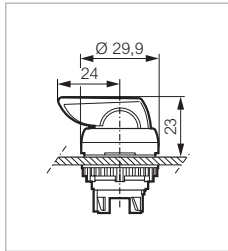
▶ SELECTOR SWITCHES - ILLUMINATED (CONTINUED)

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 \varnothing 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)

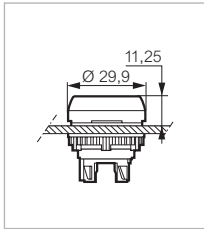
▶ PILOT LIGHTS - SEPARATE UNITS

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

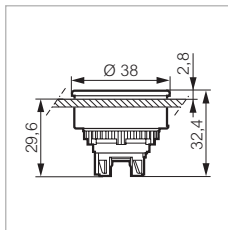
SUPER FLUSH

Degree of protection: IP 66

Cat. No



L23SE10



Metallic chrome bezel
 Drilling \varnothing 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 \varnothing 22

IP 66 - IP 69K
Direct supply



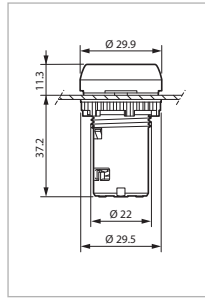
Characteristics (p. 98)

▶ 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

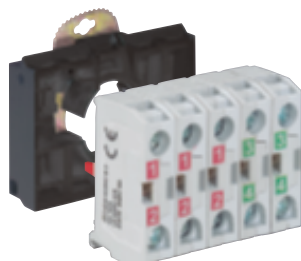
▶ CLIP

"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



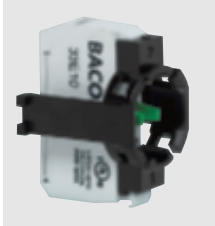
Characteristics (p. 98)

▶ CONTACT BLOCKS - FOR NON ILLUMINATED HEADS

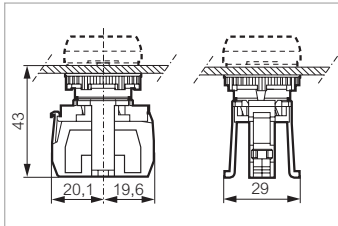
SCREW TERMINALS

1 position clip

Cat. No.



331E10



331E10

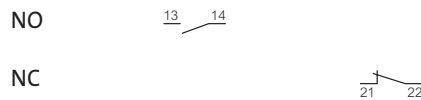
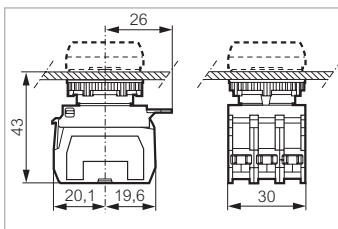
331E01

SCREW TERMINALS

3 position clip

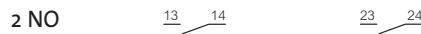


333E21



333E10

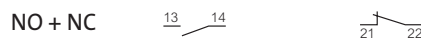
333E01



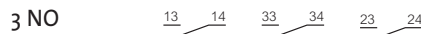
333E20



333E02



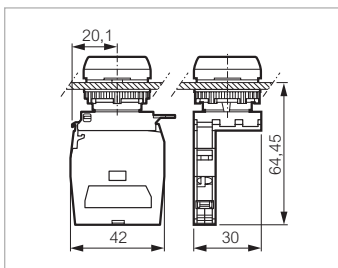
333E11



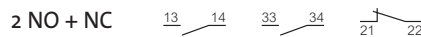
333E30



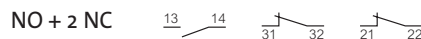
333E03



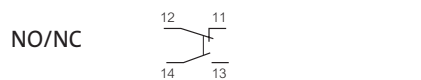
NO/NC



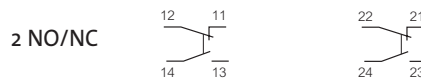
333E21



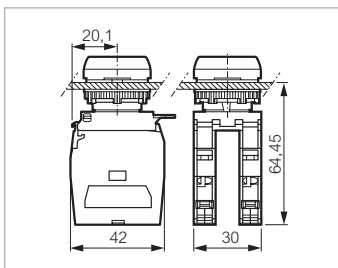
333E12



334E11



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)

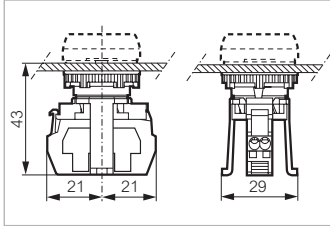
PLUG-IN TERMINALS

1 position clip

Cat. No.



331ER01



NO 
 NC 

331ER10

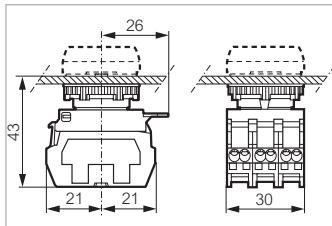
331ER01






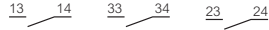
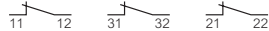
PLUG-IN TERMINALS

3 position clip



333ER11



NO 
 NC 
 2 NO 
 2 NC 
 NO+NC 
 3 NO 
 3 NC 

333ER10

333ER01

333ER20

333ER02

333ER11

333ER30

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)

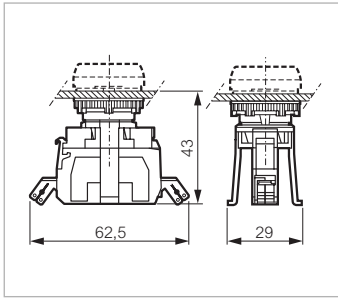
FASTON TERMINALS

1 position clip

Cat. No.



331ED10



NO  13 14
 NC  21 22

331ED10

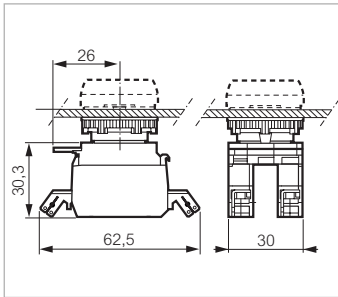
331ED01



FASTON TERMINALS

3 position clip



333ED11



NO + NC  13 14  21 22

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

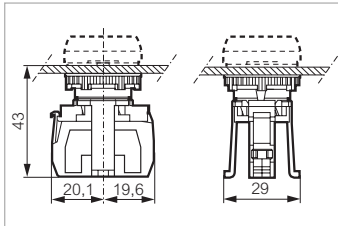
SCREW TERMINALS

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

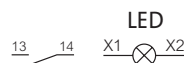
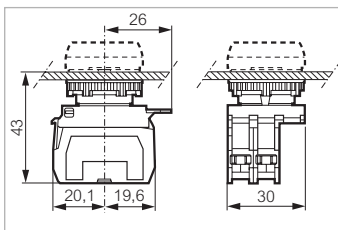
331EAWH
 331EARH
 331EAGH
 331EABH
 331EAYH

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)

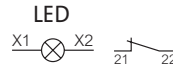
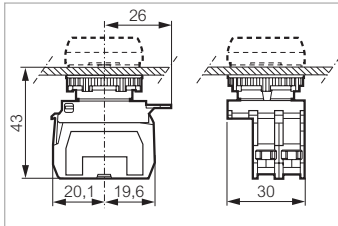
SCREW TERMINALS

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

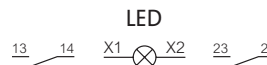
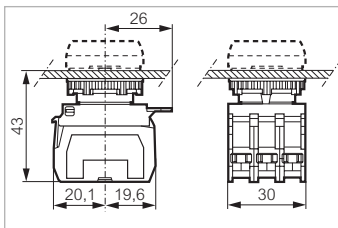
333EAWH01
333EARH01
333EAGH01
333EABH01
333EAYH01

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

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)

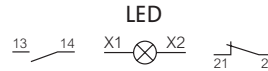
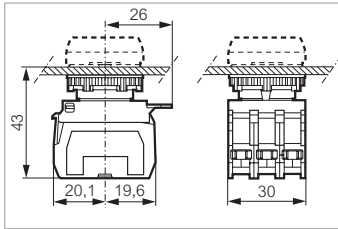
SCREW TERMINALS

3 position clip: 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

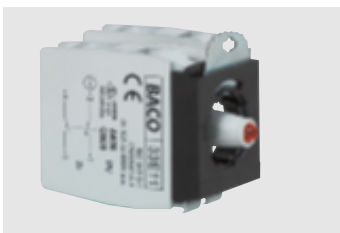
230 V

- White
- Red
- Green
- Blue
- Yellow

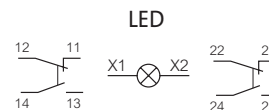
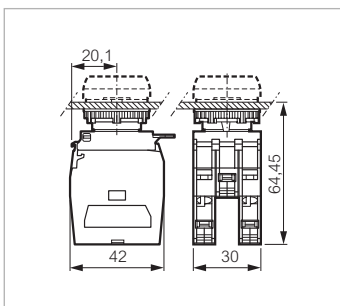
333EAWH11
333EARH11
333EAGH11
333EABH11
333EAYH11

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)

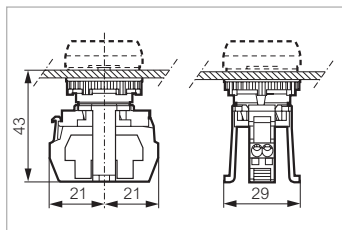
PLUG-IN TERMINALS

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

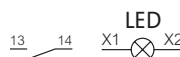
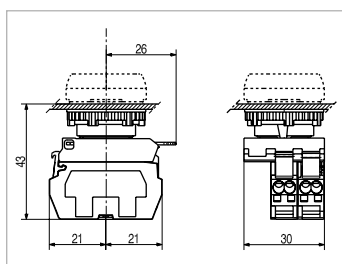
331ERAWH
331ERARH
331ERAGH
331ERABH
331ERAYH

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

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)

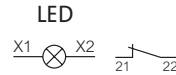
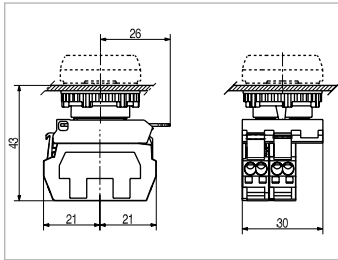
PLUG-IN TERMINALS

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

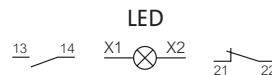
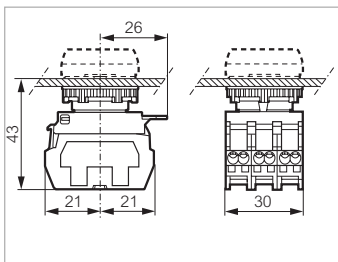
333ERAWH01
 333ERARH01
 333ERAGH01
 333ERABH01
 333ERAYH01

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

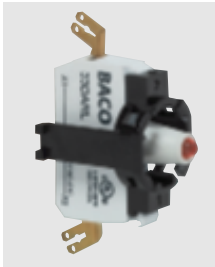
 Characteristics (p. 98)

► ELECTRICAL BLOCKS - FOR ILLUMINATED HEADS (CONTINUED)

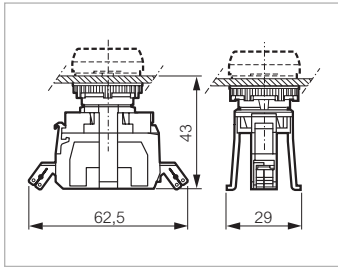
FASTON TERMINALS

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

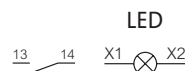
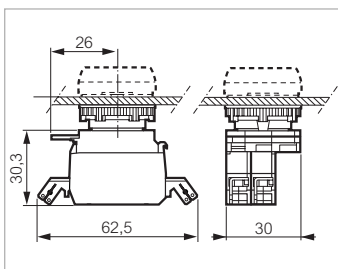
331EDAWH
 331EDARH
 331EDAGH
 331EDABH
 331EDAYH

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)

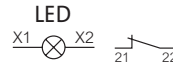
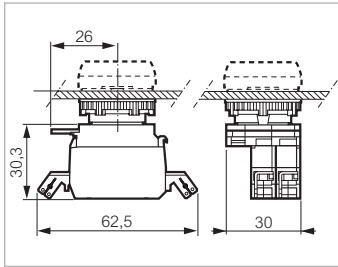
FASTON TERMINALS

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

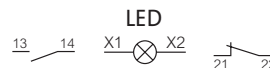
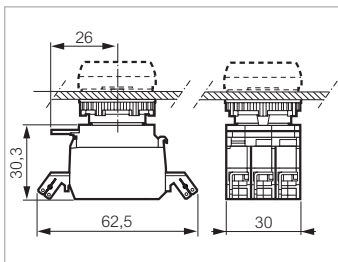
333EDAWH01
 333EDARH01
 333EDAGH01
 333EDABH01
 333EDAYH01

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)

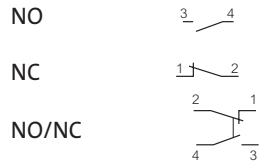
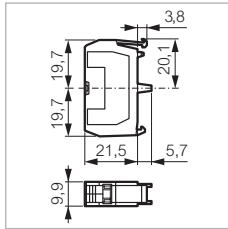
▶ CONTACT BLOCKS

SCREW TERMINALS

Cat. No.



33E10



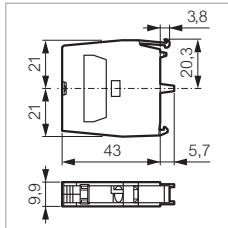
33E10

33E01

33E11



33E11



**Golden contacts
for low current**



33E10Y7

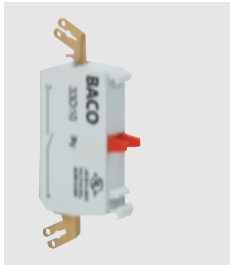
33E01Y7

Contact with delayed opening

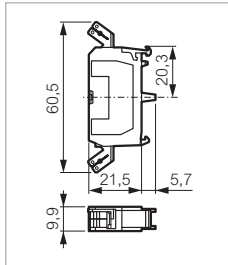


33E01C

FASTON TERMINALS



33D01



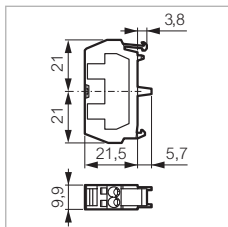
33D10

33D01

PLUG-IN TERMINALS



33R01



33R10

33R01

Separate units: Blocks

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



Characteristics (p. 98)

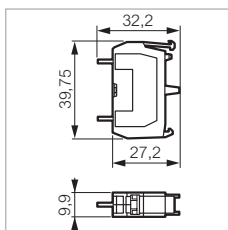
▶ CONTACT BLOCKS (CONTINUED)

FOR PCB (PIN-STYLE TERMINALS)

Cat. No.



33P10



NO 3 4

33P10

NC 1 2

33P01

**Golden contacts
for low current**

NO 3 4

33P10Y7

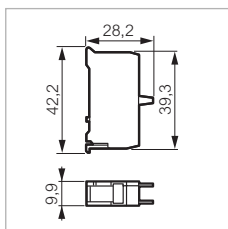
NC 1 2

33P01Y7

FOR CONTROL STATIONS (SCREW TERMINALS)



33S01



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

NO 3 4

33S10

NC 1 2

33S01

Separate units: Blocks

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



Characteristics (p. 98)

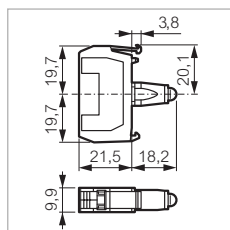
▶ LED BLOCKS

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)

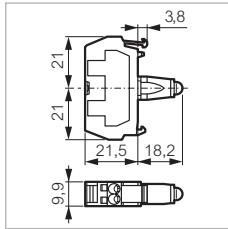
▶ LED BLOCKS (CONTINUED)

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

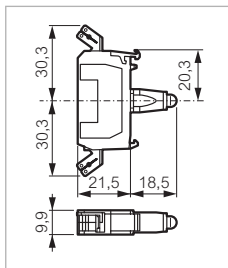
- White
- Red
- Green
- Blue
- Yellow

- 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)

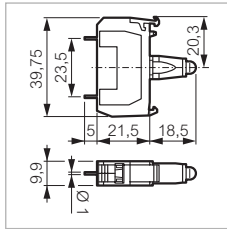
▶ LED BLOCKS (CONTINUED)

FOR PCB (PIN STYLE)

Cat. No.



33PAWL



24 V AC + DC

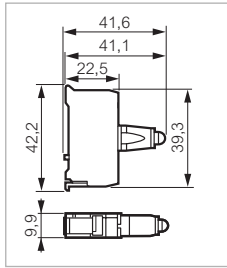
- White
- Red
- Green
- Blue
- Yellow

- 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

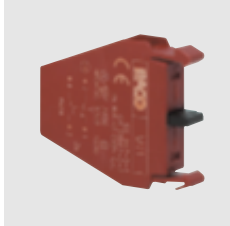
IP 20
To be combined with a 1, 3 or 5 position clip (p. 69)

 Characteristics (p. 98)

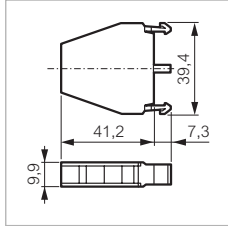
► SPECIFIC BLOCKS

FOR JOYSTICKS (SCREW TERMINALS)

Cat. No.



LM11



Joysticks (p. 39)

NO - NC

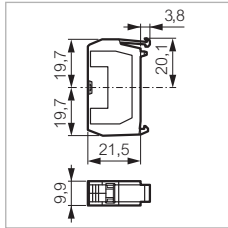


LM11

LAMP-TEST BLOCKS (SCREW TERMINALS)

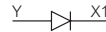


33ET



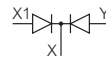
For 24 and 48 V

1 diod



33ET

2 diods



33ETT

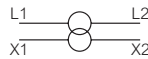
For 130 and 230 V (form p. 83)

TRANSFORMER BLOCKS (SCREW TERMINALS)

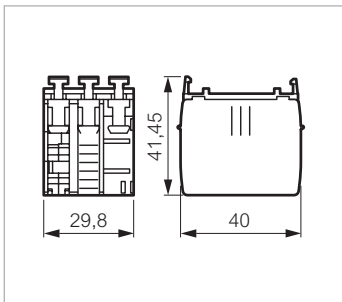


33EHC

230/24 V
400/24V



33EHC
33ELC



Separate units: Blocks

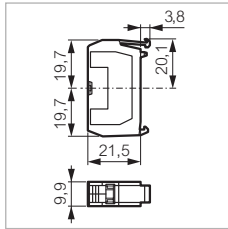
IP 20
To be combined with a 1, 3 or 5 position clip (p. 69)

 Characteristics (p. 98)

► SPECIFIC BLOCKS

FILTER BLOCKS (SCREW TERMINALS)

Cat. No.



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

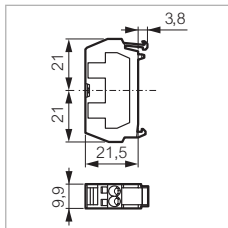
130 V
230 V



33EFM
33EFH

33EFH

FILTER BLOCKS (PLUG-IN TERMINALS)



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

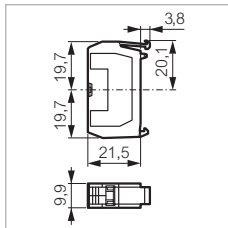
130 V
230 V



33RFM
33RFH

33RFH

JUNCTION BLOCK (SCREW TERMINALS)



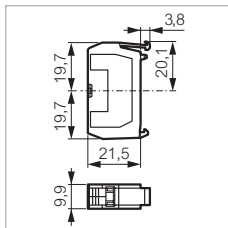
2 interconnected
terminals



33EY

33EY

EMPTY BLOCK



For empty positions on 3 or 5 position clip


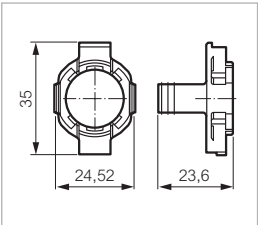
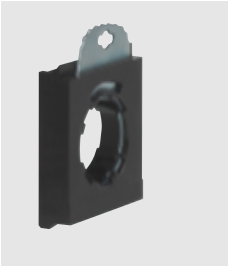
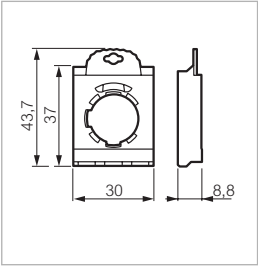
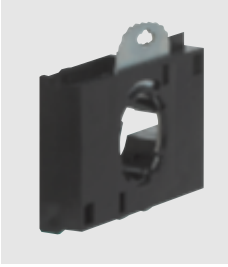
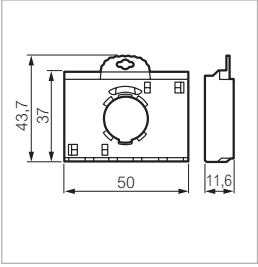
33EX

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



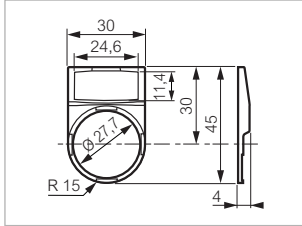
▶ COMPLETE FRAMES

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 ...)

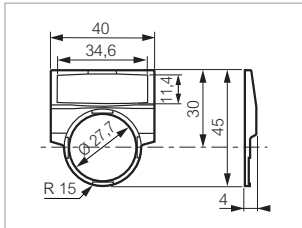
- Transparent

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

▶ LEGEND PLATES

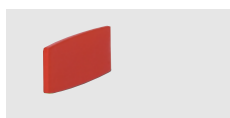
TO BE ENGRAVED

Standard model

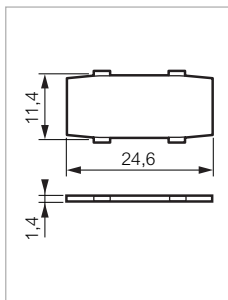
Cat. No.



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 **LIA5**
- Red **LIA1**
- Alu **LIA9**
- Black **LIA3**

On demand engraving (p. 74)

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

- White - black engraving LIA5 □□□
- Red - white engraving LIA1 □□□
- Alu - black engraving LIA9 □□□
- Black - white engraving LIA3 □□□

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

- Transparent **LIA7**

TO BE ENGRAVED

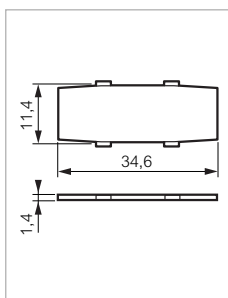
Large model



LIB9



LIB3



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

Without engraving

- White **LIB5**
- Red **LIB1**
- Alu **LIB9**
- Black **LIB3**

On demand engraving (p. 74)

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

- White - black engraving LIB5 □□□
- Red - white engraving LIB1 □□□
- Alu - black engraving LIB9 □□□
- Black - white engraving LIB3 □□□

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

- Transparent **LIB7**

Accessories ø 22

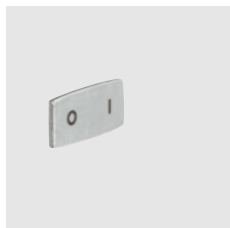
 Characteristics (p. 98)

▶ LEGEND PLATES

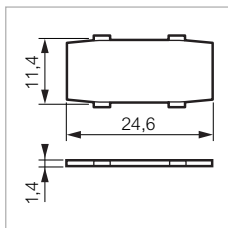
ENGRAVED

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

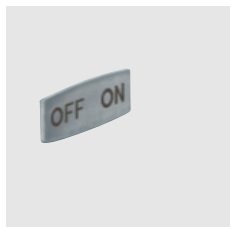
O-I	LIA9081
I-II	LIA9082
I-O-II	LIA9091
MANU-O-AUTO	LIA9191
HAND-O-AUTO	LIA9291
START	LIA9301
ON	LIA9303
OFF	LIA9304
RESET	LIA9315
RUN	LIA9327
HAND-AUTO	LIA9383

On demand engraving (p. 74)

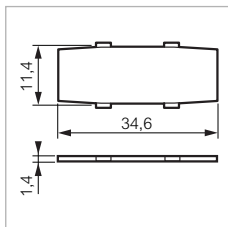
Symbol code to be added at the end of the catalogue number **LIA9□□□**

ENGRAVED

Large model



LIB9382



Alu legend plate, black engraving
For round frame cat. no. LWG3 (p. 73)

OFF-ON	LIB9382
O-I-START	LIB9093

Accessories ø 22

 Characteristics (p. 98)

▶ FRAMES

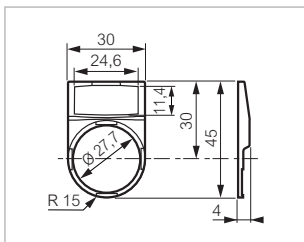
ROUND

Standard model

Cat. No.



LWP3



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

● Black

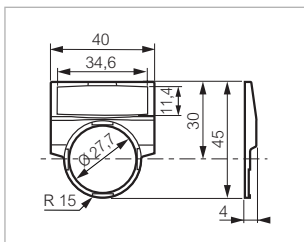
LWP3

ROUND

Large model



LWG3



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

● Black

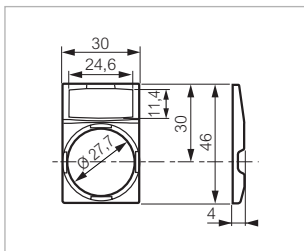
LWG3

SQUARE

Standard model



LWP4



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

● Black

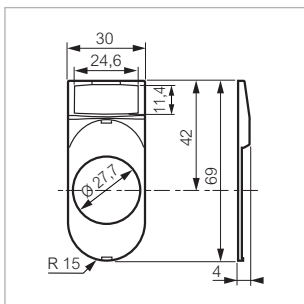
LWP4

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

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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

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RECHTS	212
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SENKEN	220
SCHNELL	210
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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
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DÉCLENCHEMENT	131
DÉFAUT	132
DESCENTE	108
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FERMETURE	114
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HORS SERVICE	104
KLAXON	118
LENT	109
MARCHE	101
MONTÉE	107
OUVERTURE	113
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SOUS TENSION	117
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




















For selector switches and legend plates

ARRÊT-MARCHE	181
AVANT -O- ARRIÈRE	192
C.P.C.-NORMAL	184
HORS-EN	182
MANU-AUTO	183
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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. L21AA00 (p. 23)

Without engraving

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

- LT01
- LT02
- LT03
- LT04
- LT05
- LT06



LT21302

On demand engraving (p. 74)

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

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

- LT21 [] [] [] []
- LT22 [] [] [] []
- LT23 [] [] [] []
- LT24 [] [] [] []
- LT25 [] [] [] []
- LT26 [] [] [] []

ILLUMINATED



LT20

For use with spring return button cat. no. L21AH00 (p. 40)

Without engraving

- Red
- Green
- Yellow
- White
- Blue

- LT10
- LT20
- LT40
- LT50
- LT60



LT34308

On demand engraving (p. 74)

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

- Red
- Green
- Yellow
- White
- Blue

- LT31 [] [] [] []
- LT32 [] [] [] []
- LT34 [] [] [] []
- LT35 [] [] [] []
- 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

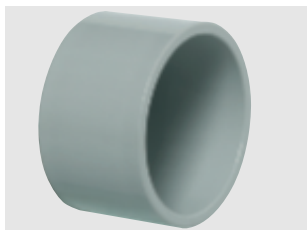
Accessories ø 22

 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

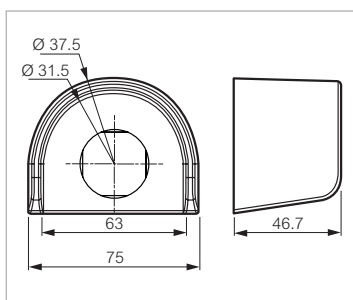
High (Height: 40 mm)

LWA0240

YELLOW GUARD RING



LWA0242



For emergency stop button
● Yellow

LWA0242

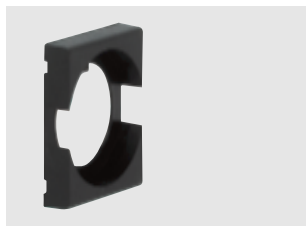
Accessories ø 22

 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

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



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)

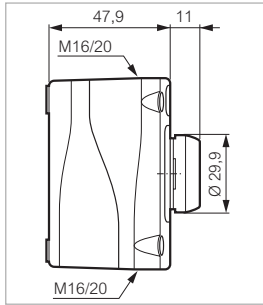
► CONTROL STATIONS WITH 1 BUTTON - NON ILLUMINATED

SPRING RETURN - FLUSH

Cat. No.



LBX10110



- Green
- Red

NO
 NC



Marking

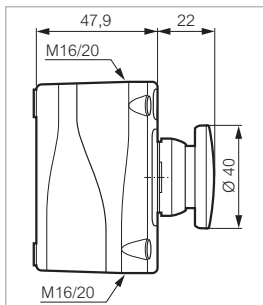


LBX10110
LBX10610

MUSHROOM HEAD ø 40 - SPRING RETURN



LBX10210



- Red

NC



Marking

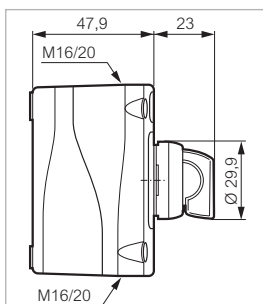


LBX10210

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)

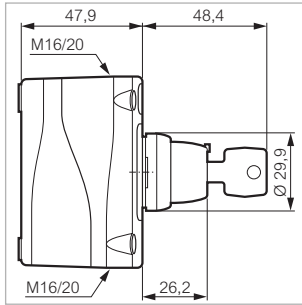
▶ CONTROL STATIONS WITH 1 BUTTON (CONTINUED)

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

○
|

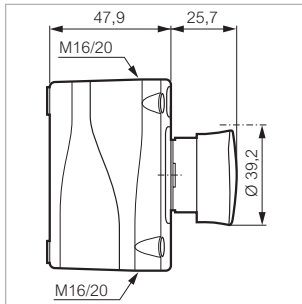
LBX12610




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

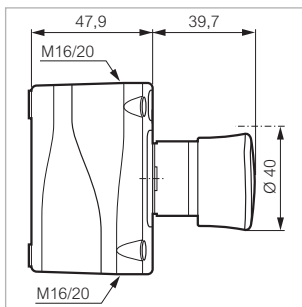
Contact blocks fixed behind cover (form p. 94)

MUSHROOM HEAD ø 40 ISO 13850 - STAY-PUT


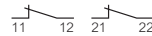

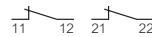

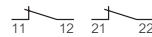
Push-turn to reset









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)

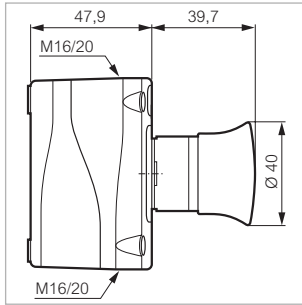
MUSHROOM HEAD Ø 40 ISO 13850 - STAY-PUT

Push-pull to reset



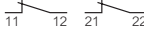



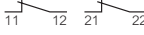



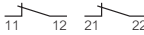

Cat. No.



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

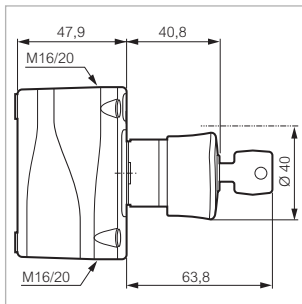
Contact blocks fixed behind cover (form p. 94)

MUSHROOM HEAD Ø 40 ISO 13850 - STAY-PUT



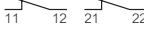



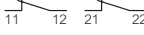



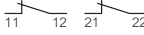

Key to reset



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

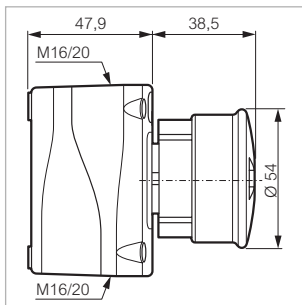
Contact blocks fixed behind cover (form p. 94)

MUSHROOM HEAD Ø 54 ISO 13850 - STAY-PUT



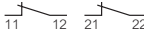

Push-pull to reset with flag indicator



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)

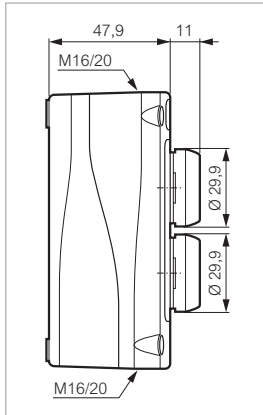
▶ CONTROL STATIONS WITH 2 BUTTONS

SPRING RETURN - FLUSH

Cat. No.



LBX20120



● Green
 ● Red

NO
 NC



Marking



LBX20120

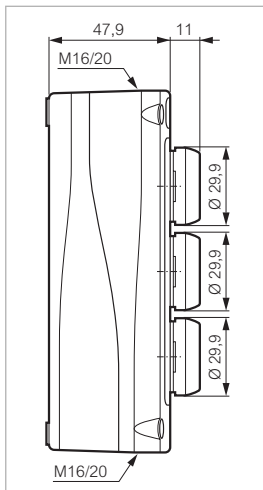
▶ CONTROL STATIONS WITH 3 BUTTONS

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.

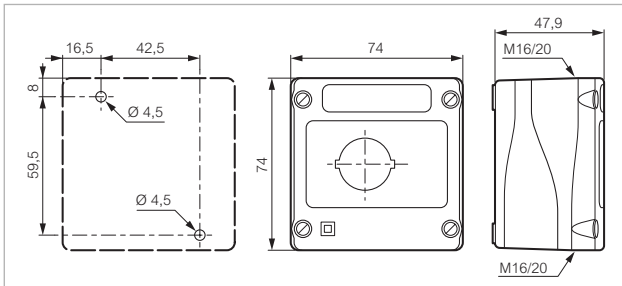


LBX0100J

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.

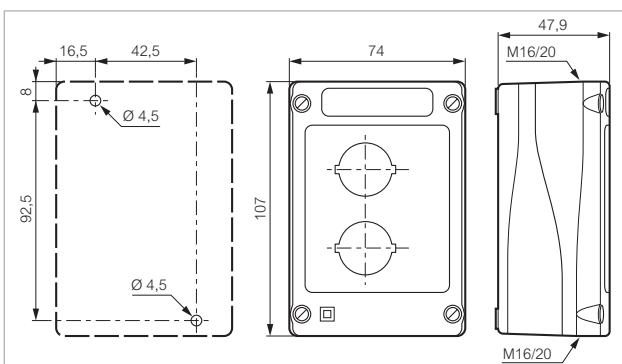


LBX0200

Black base

- Grey cover
- Yellow cover

LBX0200
LBX0200J



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

Control stations \varnothing 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.

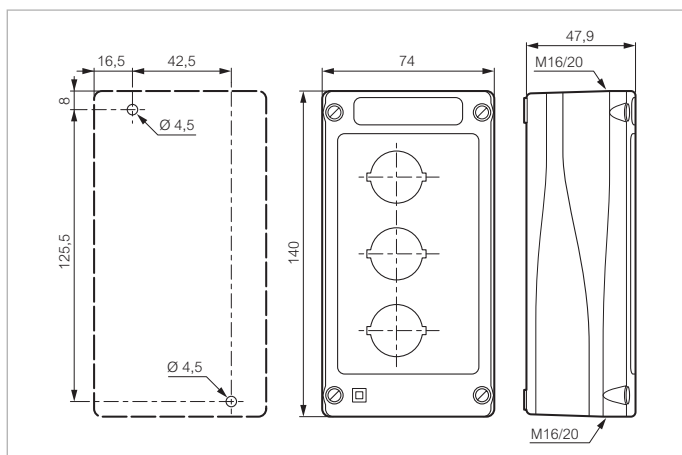


Black base

● Grey cover

LBX0300

LBX0300



Control stations \varnothing 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.

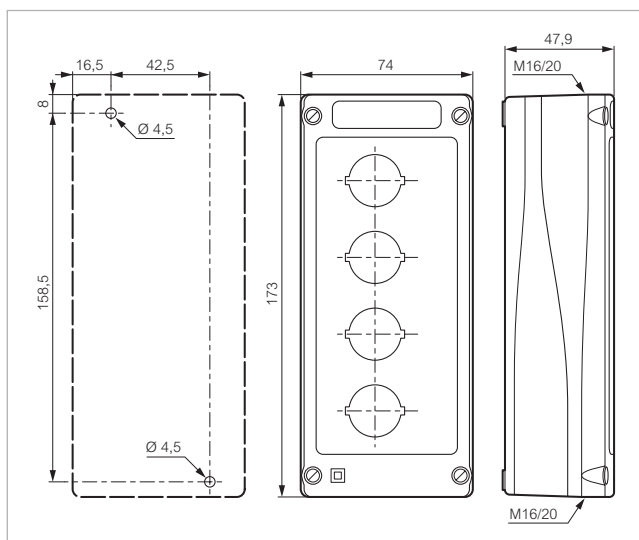


Black base

● Grey cover

LBX0400

LBX0400



Control stations \varnothing 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

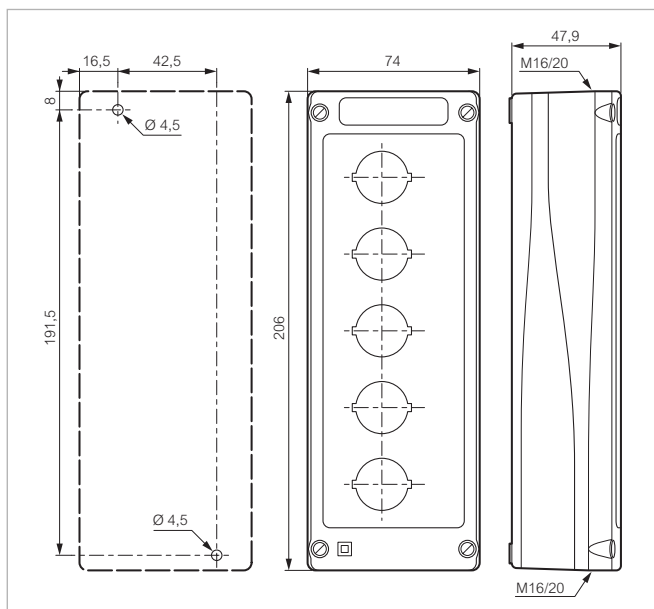
Cat. No.



Black base
 ● Grey cover

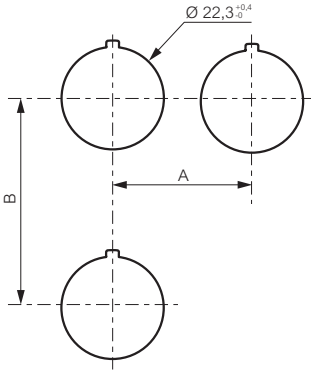
LBX0500

LBX0500



Panel cut-out

DRILLING

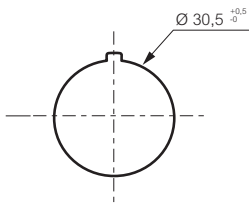


For heads equipped with electrical blocks with screw or plug-in terminals

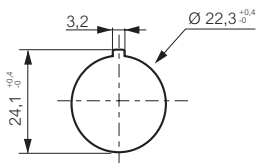
Minimum interval (mm)

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

DRILLING FOR SUPER-FLUSH BUTTON

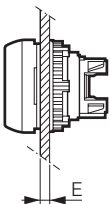


DRILLING WHEN USING THE ANTI-ROTATION RING (OPTIONAL)



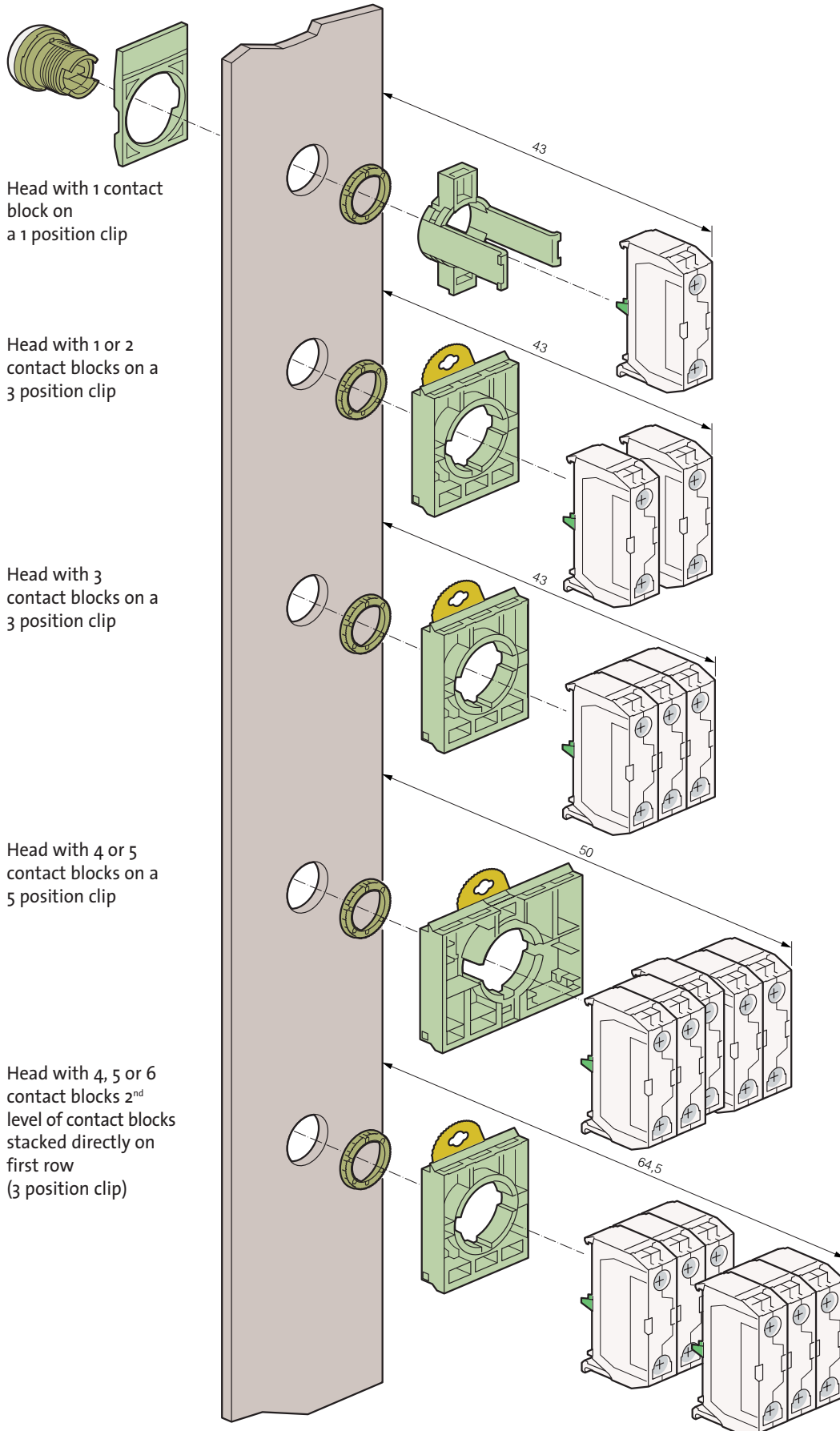
THICKNESS OF PANEL (E)

E = 1 to 6 mm



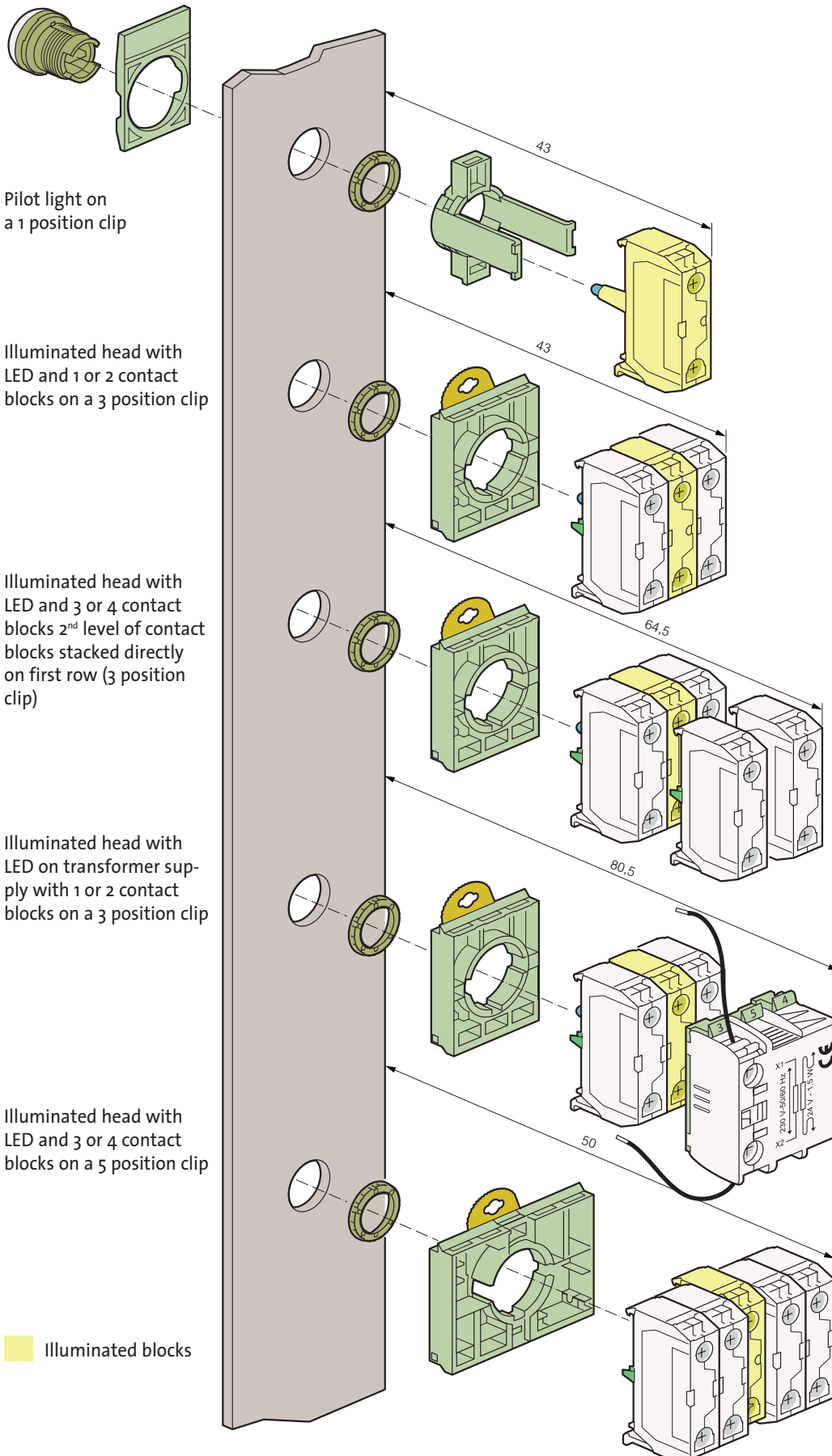
Mounting blocks \varnothing 22

NON ILLUMINATED



Mounting blocks $\varnothing 22$

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 Véritas 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	<p>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</p> <p>Minimum operating current - standard blocks Ue = 24 V DC and Ie = 5 mA Failure rate < 10⁻⁸</p>	<p>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</p> <p>- golden contacts Ue = 5 V DC and Ie = 1 mA Failure rate < 10⁻⁸</p>	IEC 60947-5-1
▶ Electrical operating life	<p>1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A</p>		
▶ 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	<p>Alternating current AC15 - A 300 Ue = 120 V, Ie = 6 A Ue = 240 V, Ie = 3 A</p> <p>Minimum current of use Ue = 24 V DC and Ie = 5 mA Failure rate < 10⁻⁸</p>	<p>Direct current DC13 - Q 300 Ue = 125 V, Ie = 0,55 A Ue = 250 V, Ie = 0,27 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A</p>	IEC 60947-5-1
▶ Electrical operating life	<p>1 million cycles for: - AC15 - B 300 Ue = 120 V, Ie = 3 A Ue = 240 V, Ie = 1,5 A</p> <p>- DC13 - R 300 Ue = 125 V, Ie = 0,22 A Ue = 250 V, Ie = 0,1 A</p>		
▶ 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	
▶ 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	
▶ 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.

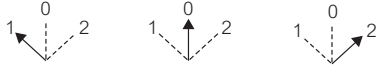
The ISO 13850 mushroom heads also comply with the safety requirements detailed in standard ISO 13850.

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



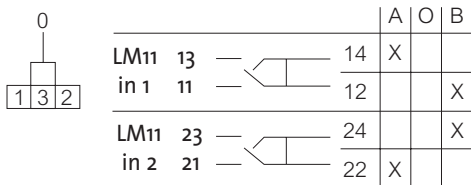
Operated block



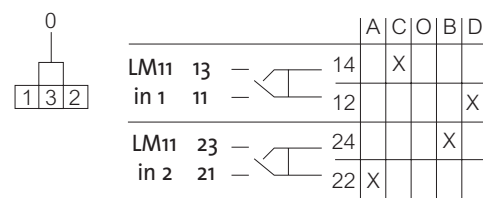
MECHANICAL OPERATION

For Joysticks

2 positions

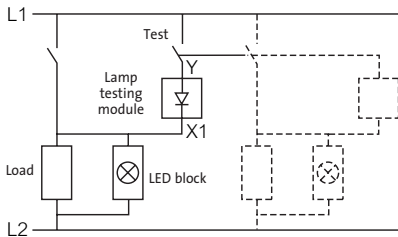


4 positions

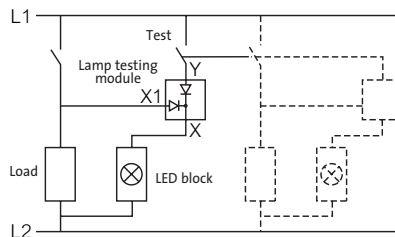


PUSH-TO-TEST LED PILOT LIGHT DIAGRAMS

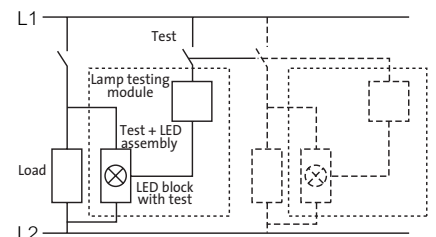
Lamp-testing module with 1 diode (33ET) for direct supply 24 V and 48V



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

