



## ▶ PILOT DEVICES

Maximum protection for severe environments

OUR COMMITMENT MAKES THE DIFFERENCE ▶ **BACO**<sup>®</sup>

## ▶ **BACO provides solutions for severe environments**

Some applications demand high performance in difficult environments such as outdoor use of machinery, high pressure cleaning. Environments subject to humidity, dust, etc.

### ▶ **Design that protects**

Approved for tough industrial applications, BACO front elements are designed to reveal their advantages under the most adverse conditions.

### ▶ **Greater performance**

Perfect for environments requiring greater protection from dust, submersion, and high-pressure, high-temperature spray-down.

### ▶ **Common functions & accessories**

Extra accessories can give you further customization options.

### ▶ **Contents**

BACO Ø 22 mm control and signalling devices benefit for harsh environments .....	4
What is the meaning of IP 66/67/69K .....	6
Control & Signalling devices Ø 22 mm .....	8
Accessories .....	30
Technical characteristics .....	34

► **Greater performance**

Maximum protection with BACO Ø 22mm control and signalling devices. All Ø 22 mm components feature an IP66 rating, and some carry IP67 when shrouded and some carry IP69K for wash down environments.

Baco operators like pushbuttons, selector switches, emergency stops, machine stops and pilot lights are designed for tough industrial environments. These robust pieces are approved according to IEC 60947-5-1 and meet protection degree IP66, when shrouded they are IP67 (see p. 28). All here below functions are IP69K on the front side and IP20 on the terminal side and also approved according to UL type 1, 3R, 4, 4X, 12 and 13.



IP66 - IP69K E-Stops



IP66 - IP69K operators



IP66 - IP69K selectors



IP66 - IP69K 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 IP67 shrouds prevent ingress of water and dust.



Shrouds for Twin touch operator



Shrouds for projected operator



Shrouds for flush operator



IP67 Shrouded Twin touch operator



IP67 Shrouded projected operator

## ► 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 IP66 environmental rating, protecting against high seas, sprayed water and dirt. Many standard operators have more stringent IP67 and IP69K ratings, protecting from submersion and high-pressure/high-temperature wash down environments.



High-pressure wash down

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 IP66/67/69K protection degree?

IP66/IP67 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 IP69K 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 IP67 or IP69K when manufactured after week 36\_2015.

### ► Does your application require IP69K or IP67 protected pushbuttons?

If your application is in the food, beverage or pharmaceutical industry chances are you already require IP69K ratings.

Any high-pressure, high-temperature wash down applications would benefit from this line of IP69K pushbuttons.

BACO L Series offers you 4 key functions and a range of colors to choose from.

We offer both illuminated or non-illuminated versions as well.

- See more at: <http://www.baco-international.com>



Industrial vehicles



Outdoor machinery



Mining

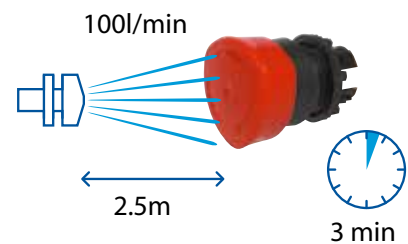


Marine

► **What is the meaning of IP66/67/69K protection degree?** (continued)

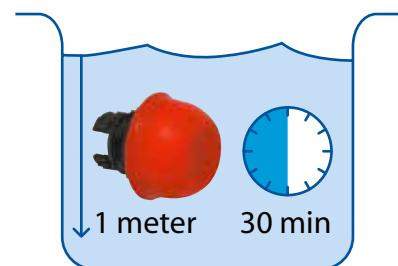
► **Waterproof according to IP66**

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



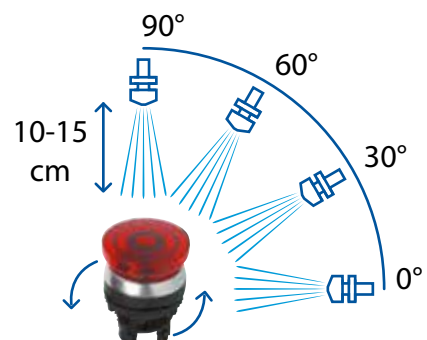
► **Waterproof according to IP67**

BACO’s control & pilot devices are perfect for tough environments where a waterproof enclosure is required. Shrouded modular devices are approved according to IP67. 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 IP69K**

The IP69K certification was initially developed for applications that need regular intensive cleaning (dump trucks, cement mixers, etc.). BACO’s control devices are certified according to IP69K 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.



► **RECOMMENDATIONS**

Use any appropriate enclosures according to required degree of ingress protection.

## ► Protection class

The IP (Ingress Protection) rating system is published by the IEC (International Electrotechnical Commission) and classifies the degree of protection against solid objects and liquids in order to operate the electrical equipment.

**IP XX**  
1 2

**1** Protection Against Solid Objects

**2** Protection Against Liquids

### First digit of IP-Codes

1.digit		Meaning	
ISO 20653	IEC 60529	Protection against objects	Effective against
0	0	No protection	No protection
1	1	Solid objects $\geq$ 50mm	Any large surface of the body, such as the back of a hand, but no protection against deliberate contact with a body part
2	2	Solid objects $\geq$ 12.5mm	Fingers or similar objects
3	3	Solid objects $\geq$ 2.5mm	Tools, thick wires, etc.
4	4	Solid objects $\geq$ 1mm	Most wires, screws, etc.
5K	5	Dust protected	Ingress of dust is not entirely prevented, but it must not enter in sufficient quantity to interfere with the satisfactory operation of the equipment; complete protection against contact
6K	6	Dust tight	No ingress of dust; complete protection against contact

### Second digit of IP-Codes

2.digit		Meaning
ISO 20653	IEC 60529	Protection against water
0	0	No protection
1	1	Dripping water (vertically falling drops) shall have no harmful effect.
2	2	Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle up to 15° from its normal position.
3	3	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect.
4	4	Water splashing against the enclosure from any direction shall have no harmful effect.
5	5	Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful effects.
6	6	Water projected in powerful jets (12.5 mm nozzle) against the enclosure from any direction shall have no harmful effects.
7	7	Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion).
8	8	The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer. Normally, this will mean that the equipment is hermetically sealed. However, with certain types of equipment, it can mean that water can enter but only in such a manner that it produces no harmful effects.
	9	Protected against close-range high pressure, high temperature spray downs.
9K		Protected against close-range high pressure, high temperature spray downs, specific for cars.

# Separate units $\varnothing$ 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653



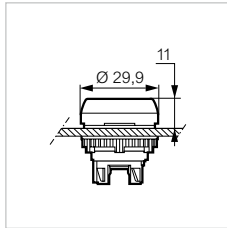
## ► PUSH-BUTTONS - NON ILLUMINATED

### 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**

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

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

- L21AA31
- L21AA32
- L21AA33
- L21AA34
- L21AA35
- L21AA36

**Without button plate**

L21AA00

Button plate (see p.31)

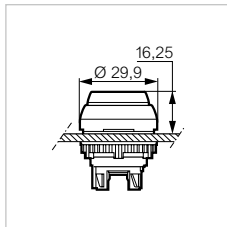


L21AA00

### SPRING RETURN - PROJECTING



L21AB01



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

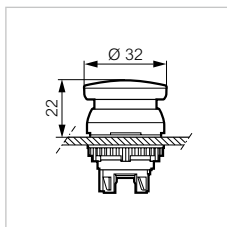
- L21AB01
- L21AB02
- L21AB03
- L21AB04
- L21AB05
- L21AB06

### SPRING RETURN - MUSHROOM HEAD $\varnothing$ 32

Push



L21AC03



- Red
- Green
- Black
- Yellow

- L21AC01
- L21AC02
- L21AC03
- L21AC04



## Separate units $\varnothing$ 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

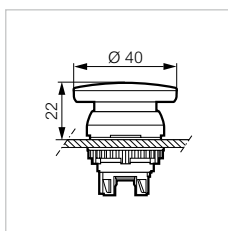
IP69K

### ► PUSH-BUTTONS - NON ILLUMINATED

#### SPRING RETURN - MUSHROOM HEAD $\varnothing$ 40

Push

Cat. No.



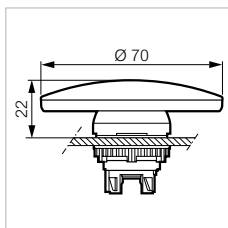
- Red
- Green
- Black
- Yellow
- Blue

**L21AD01**  
**L21AD02**  
**L21AD03**  
**L21AD04**  
**L21AD06**

L21AD01

#### SPRING RETURN - MUSHROOM HEAD $\varnothing$ 70

Push

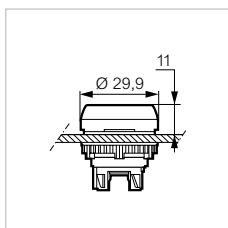


- Red
- Black

**L21AE01**  
**L21AE03**

L21AE03

#### STAY-PUT - FLUSH



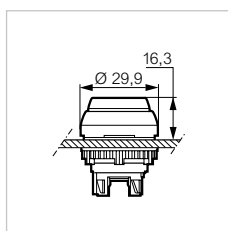
- Red
- Green
- Black
- Yellow
- White
- Blue

**L21CA01**  
**L21CA02**  
**L21CA03**  
**L21CA04**  
**L21CA05**  
**L21CA06**

L21CA01

#### STAY-PUT - PROJECTING

Cat. No



Plastic chrome bezel  
 Black bezel on request

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

**L21CB01**  
**L21CB02**  
**L21CB03**  
**L21CB04**  
**L21CB05**  
**L21CB06**

L21CB02

## Separate units $\varnothing$ 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

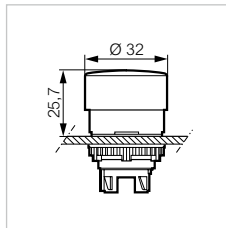
IP69K

### ► MUSHROOM HEADS - NON ILLUMINATED

$\varnothing$  32 - STAY-PUT

Push-turn to reset

Cat. No.



- Red
- Green
- Black
- Yellow

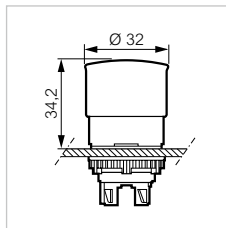
**L22EC01**  
 L22EC02  
 L22EC03  
 L22EC04

L22EC01

$\varnothing$  32 - STAY-PUT

Push-turn to reset

.



- Red

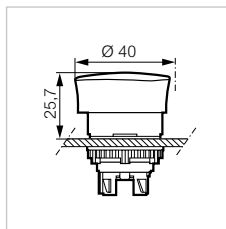
L22DC01

L22DC01

$\varnothing$  40 - STAY-PUT

Push-turn to reset

.



**Without engraving**

- Red
- Green
- Black
- Yellow

**L22ED01**  
 L22ED02  
 L22ED03  
 L22ED04

**With engraving**

- Red - engraving STOP - STOP - STOP

**L22ED01B**

L22ED01

## Separate units $\varnothing$ 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

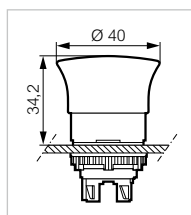
IP69K

### ► MUSHROOM HEADS - NON ILLUMINATED

$\varnothing$  40 - STAY-PUT

Push-pull to reset

Cat. No.



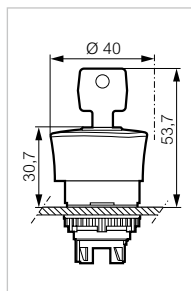
- Red
- Black

**L22DD01**  
**L22DD03**

L22DD01

$\varnothing$  40 - STAY-PUT

Key to reset



Supplied with 2 keys profile n° 455  
 ● Red

**L22GM01**

L22GM01

## Separate units $\varnothing$ 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

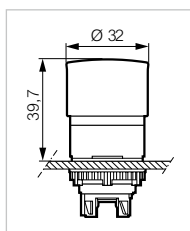
IP69K

### ► 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

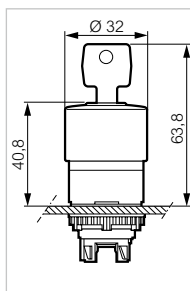
● Red

**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

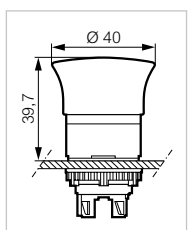
● Red

**L22GQ01**

L22GQ01

$\varnothing$  40 ISO 13850 - STAY-PUT

Push-pull to reset



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

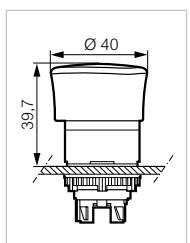
● Red

**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

**L22ER01**

L22ER01

## Separate units $\varnothing$ 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

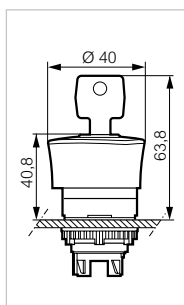
IP69K

### ► ISO 13850 EMERGENCY STOP - NON ILLUMINATED

$\varnothing$  40 ISO 13850 - STAY-PUT

Key to reset

Cat. No.



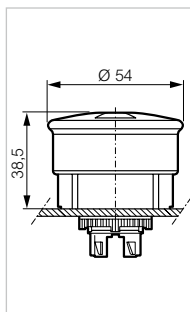
Supplied with 2 keys profile n° 455  
 Head position visible from the side with yellow collar  
 Compliant with the requirements of emergency stop:  
 IEC 60947-5-5 / ISO 13850  
 ● Red

**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 ø 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653



## ▶ SELECTOR SWITCHES - NON ILLUMINATED

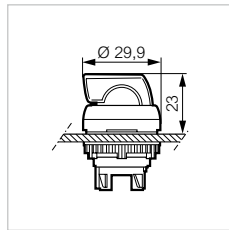
WITH HANDLE

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

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

IP69K

### ► SELECTOR SWITCHES - NON ILLUMINATED

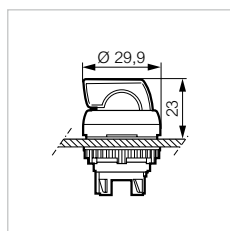
WITH HANDLE

2 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

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

IP69K

### ► SELECTOR SWITCHES - NON ILLUMINATED

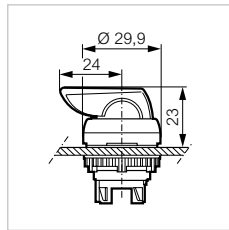
WITH LONG HANDLE

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

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

IP69K

### ▶ SELECTOR SWITCHES - NON ILLUMINATED

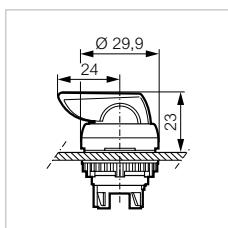
WITH LONG HANDLE

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

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

IP69K

### ► SELECTOR SWITCHES - NON ILLUMINATED

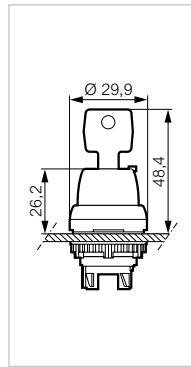
WITH KEY

2 positions

Cat. No.



L21LG00



Supplied with 2 keys profile n° 455

Key free in position:

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. 79)

# Separate units ø 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653



## ▶ SELECTOR SWITCHES - NON ILLUMINATED

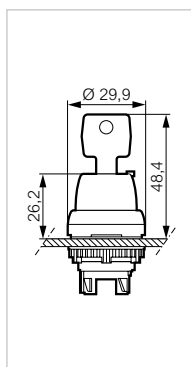
WITH KEY

3 positions

Cat. No.



L21NA00



Supplied with 2 keys profile n° 455

Key free in position:

**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. 79)

## Separate units $\varnothing$ 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

IP69K

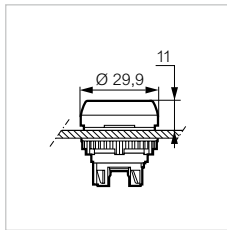
### ► PUSH-BUTTONS - ILLUMINATED

#### SPRING RETURN - FLUSH

Cat. No.



L21AA02



#### Without engraving

- Red
- Green
- Yellow
- White
- Blue

**L21AH10**  
**L21AH20**  
**L21AH40**  
**L21AH50**  
**L21AH60**

#### On demand engraving

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

- Red
- Green
- Yellow
- White
- Blue

L21AH31   
 L21AH32   
 L21AH34   
 L21AH35   
 L21AH36

Without button plate

**L21AH00**

Button plates (see p.31)

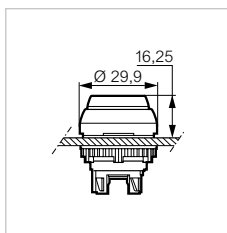


L21AH00

#### SPRING RETURN - PROJECTING



L21AK20



- Red
- Green
- Yellow
- White
- Blue

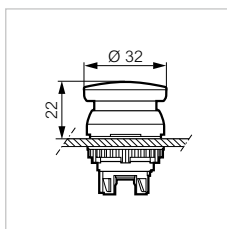
**L21AK10**  
**L21AK20**  
**L21AK40**  
**L21AK50**  
**L21AK60**

#### SPRING RETURN - MUSHROOM HEAD $\varnothing$ 32

Push



L21AL10



- Red
- Green
- Yellow
- White

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

## Separate units $\varnothing$ 22: Heads

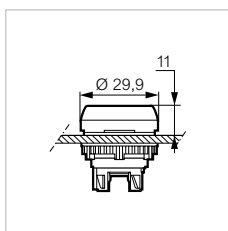
IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

IP69K

### ► PUSH-BUTTONS - ILLUMINATED

#### STAY-PUT - FLUSH

Réf.



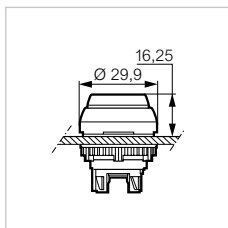
- Red
- Green
- Yellow
- White
- Blue

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

L21CH20

#### STAY-PUT - PROJECTING

Réf.



- Red
- Green
- Yellow
- White
- Blue

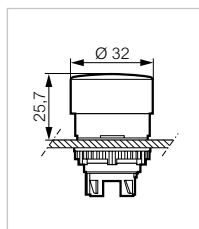
**L21CK10**  
**L21CK20**  
**L21CK40**  
**L21CK50**  
**L21CK60**

L21CK20

#### $\varnothing$ 32 - STAY-PUT

Push-turn to reset

Cat. No.



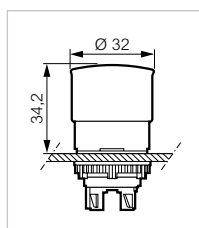
- Red

**L22EL10**

L22EL10

#### $\varnothing$ 32 - STAY-PUT

Push-pull to reset



- Red

**L22DL10**

L22DL10

## Separate units $\varnothing$ 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

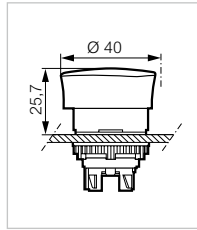


### ► PUSH-BUTTONS - ILLUMINATED

$\varnothing$  40 - STAY-PUT

Push-turn to reset

Cat. No.



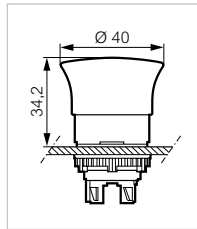
- Red
- Green
- Yellow

- L22EM10**
- L22EM20
- L22EM40

L22EM10

$\varnothing$  40 - STAY-PUT

Push-turn to reset



- Red
- Green
- Yellow
- White

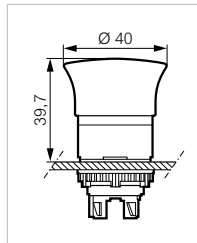
- L22DM10**
- L22DM20
- L22DM40
- L22DM50

L22DM10

### ► ISO 13850 EMERGENCY STOP - ILLUMINATED

$\varnothing$  40 ISO 13850- STAY-PUT

Push-turn to reset



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

## Separate units $\varnothing$ 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

IP69K

### ► SELECTOR SWITCHES - ILLUMINATED

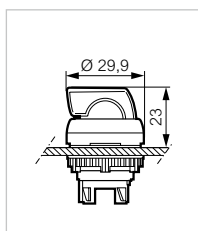
WITH HANDLE

2 positions

Cat. No.



L21KJ30



**Stay-put positions - 45°**

- Red
- Green
- Black



**L21KG10**  
**L21KG20**  
**L21KG30**

**Spring return - 45°**

- Red
- Green
- Black



L21KH10  
 L21KH20  
**L21KH30**

**Stay-put positions - 45°**

- Red
- Green
- Black



**L21KJ10**  
**L21KJ20**  
**L21KJ30**

**Spring return - 45°**

- Red
- Green
- Black



L21KK10  
 L21KK20  
**L21KK30**

**Stay-put positions - 90°**

- Red
- Green
- Black



L21KL10  
 L21KL20  
**L21KL30**

**Stay-put positions - 90°**

- Red
- Green
- Black



**L21KM10**  
**L21KM20**  
**L21KM30**

# Separate units ø 22: Heads

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653



## ▶ SELECTOR SWITCHES - ILLUMINATED

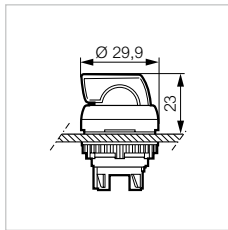
WITH HANDLE

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

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

IP69K

### ► SELECTOR SWITCHES - ILLUMINATED

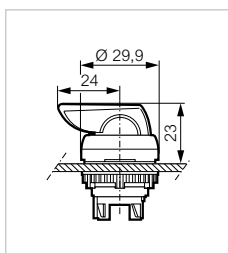
#### WITH LONG HANDLE

2 positions

Cat. No.



L21KV30



**Stay-put positions - 45°**

● Black



**L21KV30**

**Stay-put positions - 45°**

● Black



**L21KX30**

**Spring return - 45°**

● Black



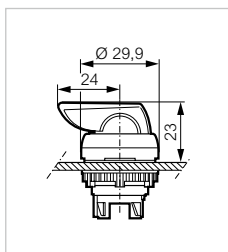
**L21KY30**

#### 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

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

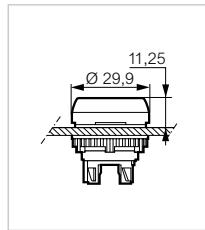


## ▶ PILOT LIGHTS - SEPARATE UNITS

Cat. No.



L20SE20



To be combined with a clip and LED block

**Without engraving**

- Red
- Green
- Yellow
- White
- Blue

- L20SE10**
- L20SE20**
- L20SE40**
- L20SE50**
- L20SE60**

**On demand engraving**

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

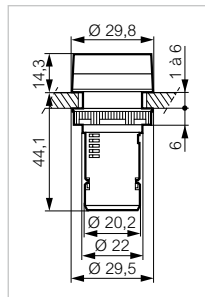
- Red
- Green
- Yellow
- White
- Blue

- L20SE31
- L20SE32
- L20SE34
- L20SE35
- L20SE36

## ▶ ONE-PIECE PILOT LIGHTS



L20SA40



To be used with BA9S bulbs (not supplied)  
 Direct supply  
 To be used without electrical block

**Without engraving**

- Ribbed lens
- Red
  - Green
  - Colourless
  - Yellow
  - White
  - Blue

- L20SA10**
- L20SA20**
- L20SA30**
- L20SA40**
- L20SA50**
- L20SA60**

**On demand engraving**

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

- Smooth lens
- Red
  - Green
  - Colourless
  - Yellow
  - White
  - Blue

- L20SA31
- L20SA32
- L20SA33
- L20SA34
- L20SA35
- L20SA36

# Pilot lights ø 22

IP66 IP69K  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653

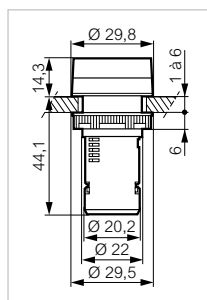


## ▶ ONE-PIECE PILOT LIGHTS

Cat. No.



L20SA10M



Supplied with LED bulb-type BA9S  
 Smooth lens

**24V**  
**Without engraving**

- Red
- Green
- Yellow
- White
- Blue

- L20SA10L**
- L20SA20L**
- L20SA40L**
- L20SA50L**
- L20SA60L**

**On demand engraving**

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

- Red

L20SA31L

**130V**  
**Without engraving**

- Red
- Green
- Yellow
- White
- Blue

- L20SA10M**
- L20SA20M**
- L20SA40M**
- L20SA50M**
- L20SA60M**

**On demand engraving**

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

- Red
- Green
- Yellow
- Colourless
- Blue

L20SA31M

L20SA32M

L20SA34M

L20SA33M

L20SA36M

**230V**  
**Without engraving**

- Red
- Green
- Yellow
- White
- Blue

- L20SA10H**
- L20SA20H**
- L20SA40H**
- L20SA50H**
- L20SA60H**

**On demand engraving**

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

- Red
- Green
- Yellow
- Colourless
- Blue

L20SA31H

L20SA32H

L20SA34H

L20SA33H

L20SA36H

## Separate units ø 22: Heads

IP67  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653



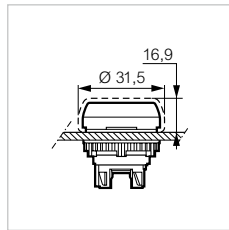
### ► PUSH-BUTTONS - NON ILLUMINATED

#### SPRING RETURN - FLUSH

Cat. No.



L22AF01



Supplied with shroud

**Opaque**

- Red
- Green
- Black

**L22AF01**  
**L22AF02**  
**L22AF03**

**Transparent**

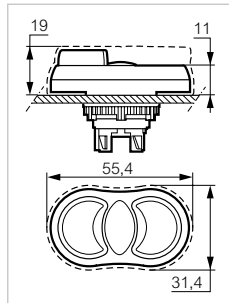
- Yellow
- White
- Blue

L22AG04  
 L22AG05  
 L22AG06

#### SPRING RETURN - FLUSH-PROJECTING



L62QM21



Supplied with transparent shroud

- Green
- Red

**L62QM21**

## Separate units ø 22: Heads

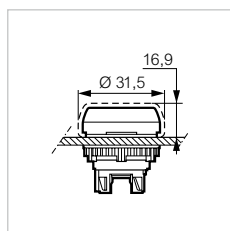
IP67  
 To be combined with a clip and electrical blocks  
 Equipped with a locking ring  
 Plastic chrome bezel - Black bezel on request  
 Conform to IEC 60947-5-1, IEC 60529, ISO 20653



### ► PUSH-BUTTONS - ILLUMINATED

#### SPRING RETURN - FLUSH

Cat. No.



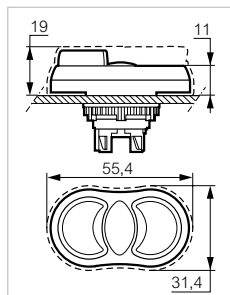
Supplied with transparent shroud

- Red
- Green
- Yellow
- White
- Blue

- L22AP10
- L22AP20
- L22AP40
- L22AP50
- L22AP60

L22AP40

#### SPRING RETURN - FLUSH-PROJECTING



Supplied with transparent shroud  
 Central part illuminated

- Green
- Red

**L62QN21**

L62QN21

## Accessories ø 22

IP67

### ► 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

### ▶ BUTTON PLATES - FOR HEADS WITHOUT BUTTON PLATE

#### FOR PUSH-BUTTONS PROJECTING

Cat. No.



LT05

For use with spring return button cat. no. L21AA00 (p. 8)

#### Without engraving

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

#### On demand engraving

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

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



LT21302

#### ILLUMINATED

For use with spring return button cat. no. L21AH00 (p. 20)

#### Without engraving

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

#### On demand engraving

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

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



LT20



LT34308

## Accessories $\varnothing$ 22

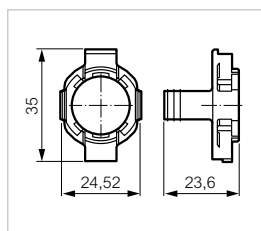
### ► CLIPS

#### SPRING RETURN - FLUSH

Cat. No.



331E



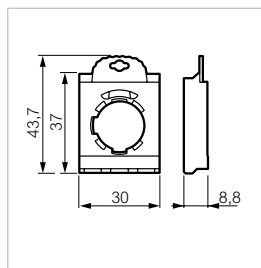
To be combined with blocks (p.33)

1 position

**331E**



333E

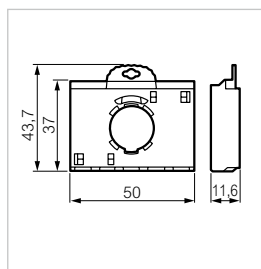


3 positions

**333E**



335E



5 positions (only for  $\varnothing$  22 heads)

**335E**

### ► MISCELLANEOUS

#### FIXING TOOL

Cat. No.



LWA0234

Fixing tool for locking ring

**LWA0234**



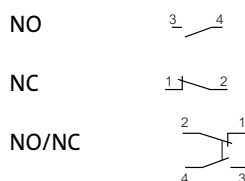
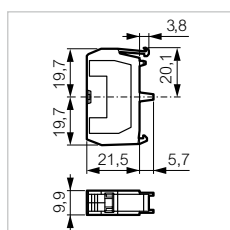
# Separate units: Blocks

IP 20  
To be combined with a 1, 3 or 5 position clip (p.32)

## ▶ CONTACT BLOCKS

### SCREW TERMINALS

Cat. No.

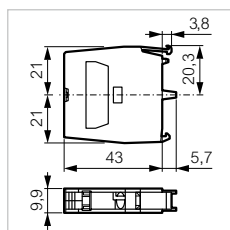


**33E10**

**33E01**

**33E11**

33E10



**Golden contacts  
for low current**



**33E10Y7**

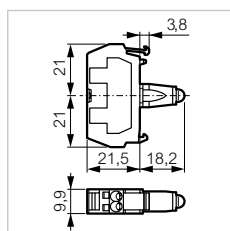
**33E01Y7**

33E11

## ▶ LED BLOCKS

### PLUG-IN TERMINALS

Cat. No.



- 24V**
- White
  - Red
  - Green
  - Blue
  - Yellow

**33RAWL**  
**33RARL**  
**33RAGL**  
**33RABL**  
**33RAYL**

- 130 V**
- White
  - Red
  - Green
  - Blue
  - Yellow

**33RAWM**  
**33RARM**  
**33RAGM**  
**33RABM**  
**33RAYM**

- 230 V**
- White
  - Red
  - Green
  - Blue
  - Yellow

**33RAWH**  
**33RARH**  
**33RAGH**  
**33RABH**  
**33RAYH**

33RAGH

# Technical characteristics

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 66 for standard heads IP 67 for shrouded heads IP 66 for equipped control stations IP 69 and IP69K for push buttons IP69 and IP69K for selector switches IP69 and IP69K for pilot devices IP69 and IP69K for emergency stops 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 - 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 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





[www.baco-international.com](http://www.baco-international.com)

OUR COMMITMENT MAKES THE DIFFERENCE ► **BACO**®