

OUR COMMITMENT MAKES THE DIFFERENCE • BACO®





► E-STOPS

Baco offers the largest selection of E-STOP devices in the industry

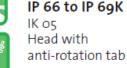
Available in 30mm & 22mm switch sizes in plastic construction, these E-STOPs meet applicable ISO 13850 and IEC standards. Selection includes push-pull/turn to release, illuminated, or key-operated devices. A wide variety of E-STOP legends, guards, and locking attachments is also available.





Mushroom head ISO 13850 illuminated







: Ø 22,3 mm cut-out

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.

ADVANTAGES

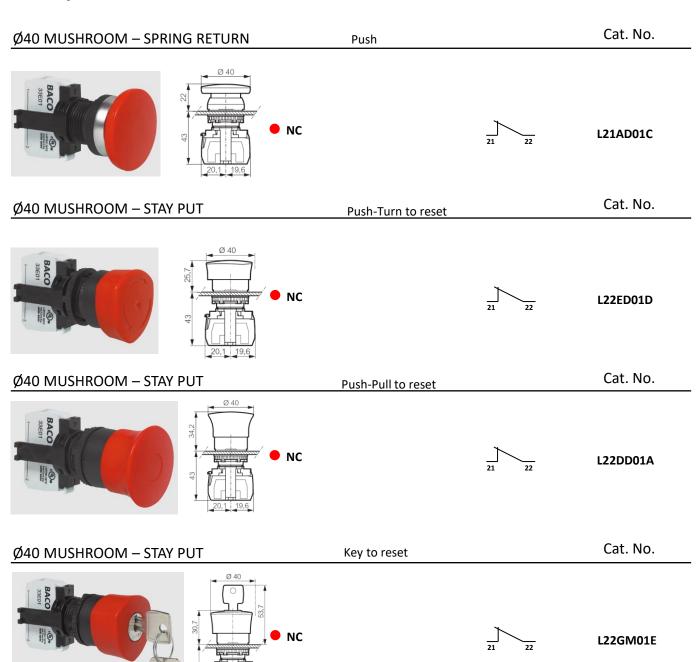
We're full of innovative ideas from listening to your needs, and watching you work

- 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





► Complete Units: Mushroom heads Ø 22







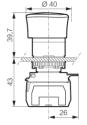
► ISO 13850 EMERGENCY STOP

Ø40 ISO13850 – 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

NO+NC





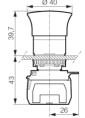
L22ER01D

Ø40 ISO13850 - 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

NO+NC





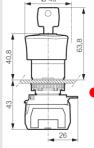
L22DR01B

Ø40 ISO13850 – STAY PUT

Key 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

Supplied with 2 keys profile N°455

NO+NC



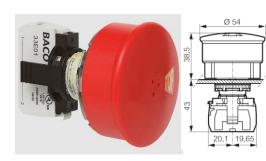


L22GR01B

Ø54 ISO13850 – STAY PUT

Push-pull to reset with flag indicator

Cat. No.



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

Flag Indicator: Engraving STOP and I

NC



L22DU01G





► Separate Units Ø22: Heads Non Illuminated Cat. No. Ø32 MUSHROOM – SPRING RETURN Push Red L21AC01 Green L21AC02 Black L21AC03 Yellow L21AC04 Cat. No. Ø40 MUSHROOM – SPRING RETURN Push Red L21AD01 Green L21AD02 Black L21AD03 Yellow L21AD04 Blue L21AD06 Cat. No. Ø70 MUSHROOM – SPRING RETURN Push Ø 70 Red L21AE01 Black L21AE03 Cat. No. Ø32 MUSHROOM – STAY-PUT Push-Turn to reset Red L22EC01 L22EC02 Green Black L22EC03 Yellow L22EC04 Cat. No. Ø32 MUSHROOM - STAY-PUT Push-Pull to reset 34,2 Red L22DC01





► Separate Units Ø22: Heads Non Illuminated

Ø40 MUSHROOM – STAY-PUT	Push-Turn to reset	Cat. No.
Ø 40	Without engraving Red Green Black Yellow	L22ED01 L22ED02 L22ED03 L22ED04
	With engraving ■ Red- engraving STOP-STOP-STOP	L22ED01B
Ø40 MUSHROOM – STAY-PUT	Push-Pull to reset	Cat. No.
Ø 40	● Red ● Black	L22DD01 L22DD03
Ø40 MUSHROOM – STAY-PUT	Key to reset	Cat. No.
Ø 40 Ø 50 Ø 50	Supplied with 2 keys profile N°455 Red	L22GM01
Ø40 MUSHROOM – STAY-PUT	Push-pull to reset	Cat. No.
910a CY 65	With Text STOP STOP STOP	L22DD01S





► Separate Units Ø22: ISO 13850 EMERGENCY STOP – Non Illuminated

Ø32 ISO 13850 – STAY-PUT	Push-Pull to reset	Cat. No.
0 32 1-68	Head position visible from the side with yellow collar Compliant with the requirements of emergency stop: IEC 60947-5-5/ISO 13850 Red	L22DQ01
Ø32 ISO 13850 – STAY-PUT	Key to reset	Cat. No.
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Head position visible from the side with yellow collar Compliant with the requirements of emergency stop: IEC 60947-5-5/ISO 13850 Supplied with 2 keys profile N°455 Red	L22GQ01
Ø40 ISO 13850 – STAY-PUT	Push-pull to reset	Cat. No.
Ø 40	Head position visible from the side with yellow collar Compliant with the requirements of emergency stop: IEC 60947-5-5/ISO 13850 Red	L22DR01
Ø40 ISO 13850 – STAY-PUT	Push-Turn to reset	Cat. No.
Ø 40	Head position visible from the side with yellow collar Compliant with the requirements of emergency stop: IEC 60947-5-5/ISO 13850 Red	L22ER01



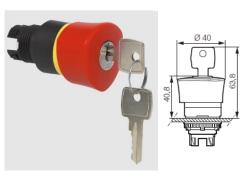


► Separate Units Ø22: ISO 13850 EMERGENCY STOP – Non Illuminated

Ø40 ISO 13850 - STAY-PUT

Key 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 Supplied with 2 keys profile N°455

Red

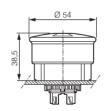
L22GR01

Ø54 ISO 13850 – STAY-PUT

Push-pull to reset with flag indicator

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 – engraving 0-I

L22DU01A

Red – engraving STOP -I

L22DU01

Ø40 ISO 13850 – STAY-PUT

Cat. No.





Head position visible from the side view with yellow collar. Compliant with the requirements of emergency stop ISO13850

Red with symbol IEC 60417-5638/ ISO 13850

L22ER01K





Red – Engraving Text « EMO »

L22ER01F





► Separate Units Ø22: Head Ø32 MUSHROOM – SPRING RETURN	Push	Cat. No.
Ø32 WO3HROOW – 3FRING RETORN	Pusii	
Ø 32	Red	L21AL10
	• Green	L21AL10
	Yellow	L21AL40
	O White	L21AL50
Ø32 MUSHROOM – STAY-PUT	Push-turn to reset	Cat. No.
Ø 32	Red	L22EL10
Ø32 MUSHROOM – STAY-PUT	Push-pull to reset	Cat. No.
Ø 32		
2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Red	L22DL10
Ø40 MUSHROOM – STAY-PUT	Push-Turn to reset	Cat. No.
Ø 39,2		
	Red	L22EM10
792	Green	L22EM20
	 Yellow 	L22EM40
Ø40 MUSHROOM – STAY-PUT	Push-pull to reset	Cat. No.
Ø 40		
	Red	L22DM10
34.2	Green	L22DM20
	• Yellow	L22DM40
	O White	L22DM50
Ø40 ISO 13850 – STAY-PUT	Push-pull to reset	Cat. No.
Ø 40	Head position visible from the side with yellow collar	
	Compliant with the requirements of emergency stop: IEC 60947-5-5/ISO 13850	
	Red	L22DN10





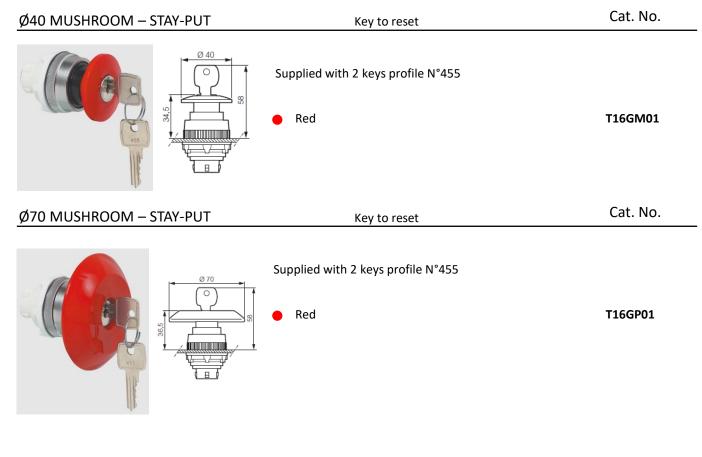
► Separate Units Ø30: Heads Non Illuminated

Ø40 MUSHROOM – SPRING RETURN	Push	Cat. No.
Ø 40	RedGreenBlackYellow	T16AD01 T16AD02 T16AD03 T16AD04
Ø70 MUSHROOM – SPRING RETURN	Push	Cat. No.
Ø 70	RedBlack	T16AE01 T16AE03
Ø40 MUSHROOM – STAY-PUT	Push-Pull to reset	Cat. No.
Ø 40	RedGreenBlackYellow	T16DD01 T16DD02 T16DD03 T16DD04
Ø40 MUSHROOM – STAY-PUT	Push-turn to reset	Cat. No.
Ø 40	Stay-put Red Green Black Yellow	T16ED01 T16ED02 T16ED03 T16ED04
Ø 40	Manual Locking Red Green Black Yellow	T16FD01 T16FD02 T16FD03 T16FD04





► Separate Units Ø30: Heads Non Illuminated



► Separate Unit Ø30: Head Illuminated

Ø40 MUSHROOM – SPRING RETURN	Push	Cat. No.
Ø 40	RedGreenYellowOpal	T16AM10 T16AM20 T16AM40 T16AM50





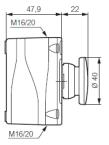
► Control stations with 1 button – Non Illuminated

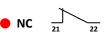
MUSHROOM HEAD Ø40 – SPRING RETURN

Push

Cat. No.







Marking



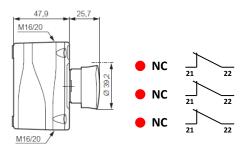
LBX10210

MUSHROOM HEAD Ø40 – STAY-PUT

Push-turn to reset

Cat. No.





Marking

ARRET D'URGENCE LBX10310

NOT AUS LBX10410

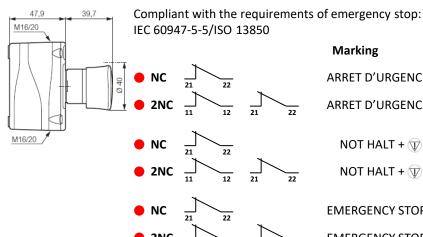
EMERGENCY STOP LBX10510

MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT

Push-turn to reset

Cat. No.





Marking

ARRET D'URGENCE + \(\pi\) LBX17101

ARRET D'URGENCE + W LBX17102

NOT HALT + 🕡 LBX17201

NOT HALT + 🕡 LBX17202

EMERGENCY STOP + \(\pi\) LBX17301

EMERGENCY STOP + W LBX17302





▶ Control stations with 1 button – Non Illuminated

MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT

Push-pull to reset

Cat. No.



Compliant with the requirements of emergency stop:

IEC 60947-5-5/ISO 13850

2NC

NC

Marking

ARRET D'URGENCE + W LBX15101

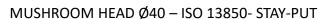
ARRET D'URGENCE + LBX15102

NOT HALT + 🕡 LBX15201

NOT HALT + W LBX15202

EMERGENCY STOP + LBX15301

EMERGENCY STOP + W LBX15302



Key to reset

Cat. No.

Compliant with the requirements of emergency stop:

47.9 40,8 M16/20 NC 2NC NC

IEC 60947-5-5/ISO 13850

Marking

ARRET D'URGENCE + W LBX11101

ARRET D'URGENCE + LBX11102

NOT HALT + \(\tau \) LBX11201

NOT HALT + ₩ LBX11202

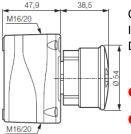
EMERGENCY STOP + 🕡 LBX11301

EMERGENCY STOP + ₩ LBX11302

MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT

Push-pull to reset with flag indicator Cat. No.





Compliant with the requirements of emergency stop:

IEC 60947-5-5/ISO 13850

Double position indicator: Head and collar

Marking

STOP- (I)

LBX14201

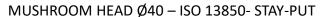
STOP- (I)

LBX14202





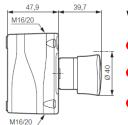
Control stations with 1 button – Non Illuminated

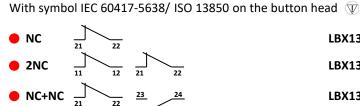


Push-turn to reset

Cat. No.







LBX130065

LBX130066

LBX130057

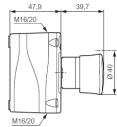
MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT

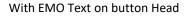
Push-turn to reset

Push-turn to reset

Cat. No.







2NC

NC+NO

LBX130067

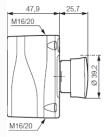
LBX130069

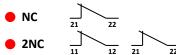
LBX130068

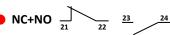
MUSHROOM HEAD Ø40 - STAY-PUT

With STOP STOP STOP Text on button Head









Cat. No.

LBX130008

LBX130009

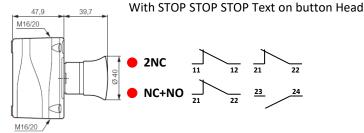
LBX130010

MUSHROOM HEAD Ø40 - STAY-PUT

Push-pull to reset

Cat. No.





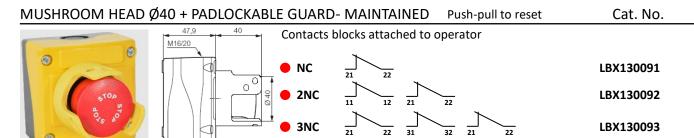
LBX130075

LBX130074





▶ Control stations with 1 button – Non Illuminated

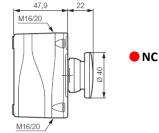


MUSHROOM HEAD Ø40 - SPRING RETURN

Push

Cat. No.









Marking

LBX130047

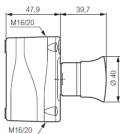
► Control stations with 1 button – Illuminated

MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT

Push-pull to reset

Cat. No.





Compliant with the requirements of emergency stop: IEC 60947-5-5/ISO 13850
Supplied with 230V Red led, 33SARH

Marking



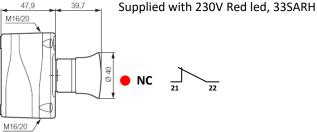
LBX130179

MUSHROOM HEAD Ø40 - STAY-PUT

Push-pull to reset

Cat. No.





Marking

EMERGENCY STOP LBX130049





► Control stations with 1 button – Non Illuminated

MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT with padlockable guard

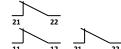
Push-pull to reset

Cat. No.



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

NC

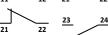


LBPA2011100

LBPA2011500

NC+NC

2NC



LBPA2011300

MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT with 180° half guard Bezel

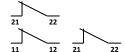
Push-pull to reset

Cat. No.



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

NC



LBPA2011200

LBPA2011600

NC+NO

2NC



LBPA2011400

MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT with padlockable guard

Push-turn to reset

Cat. No.



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

NC



LBPA2011700

LBPA2012100

NC+NO

2NC



LBPA2011900

MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT with 180° half guard Bezel

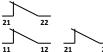
Push-turn to reset

Cat. No.



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

NC



LBPA2011800

LBPA2012200

NC+NO

2NC



LBPA2012000





► Control stations with 1 button – Non Illuminated

MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT with padlockable guard

Key to reset

Cat. No.



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

• NC 21 22
• 2NC 11 12 21 22
• NC+NC 21 22 23 24

LBPA2012300

LBPA2012700

LBPA2012500

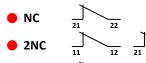
MUSHROOM HEAD Ø40 – ISO 13850- STAY-PUT with 180° half guard Bezel

Key to reset

Cat. No.



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



NC+NO

LBPA2012400

LBPA2012800

23 24 LBPA2012600



► Control stations Ø22

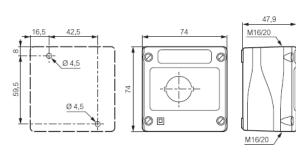
Cat. No. 1 HOLE ENCLOSURE



Yellow cover

Black base

LBX0100J



1 HOLE ENCLOSURE Cat. No.

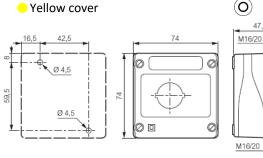


Black base

Marking



LBX130046



1 HOLE ENCLOSURE

Cat. No.



Black base

Yellow cover

Marking



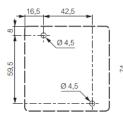
EMERGENCY STOP

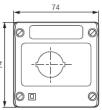
LBX0100JB

 Yellow cover with symbol IEC 60417-5438/ISO 13850

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LBX130167









► Control stations Ø22 and Ø30

LBPA and LBPP ENCLOSURE



Technical characteristics:

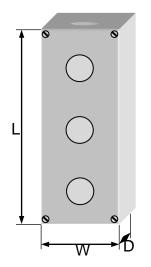
- RAL:7035
- Can be combined with 1, 3 or 5 positions clips, LED blocks and contact blocks
- Can be marked by silk screening process, two ink color available, Black and Yellow
- Recommended to be used with LWA0242 Yellow guard ring for emergency stop button, 1, 2 or 3 holes for both version LBPA or LBPP enclosures
- Protecting rating: IEC 60529: IP65

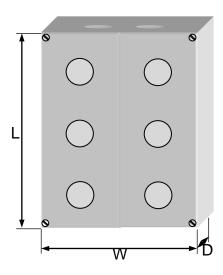
IEC 62262: IK07

Materials: ABS

Dimensions

			Dimensions	
BACO Part Number	Nb of holes	Length L	Width W	Depth D
		(mm)	(mm)	(mm)
LBPA201	1	82	80	57
LBPA202	2	120	80	57
LBPA203	3	160	80	57
LBPP201	1	82	80	85
LBPP202	2	120	80	85
LBPP203	3	160	80	85
LBPP204	4	122	120	85
LBPP206	6	160	120	90
LBPP208	8	200	120	90
LBPP210	10	240	120	100







► Separate units

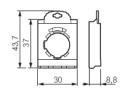
CONTACT BLOCK	S – SCREW TERMINA	ALS	Cat. No.
BACO Lumper 33E10 By manufacture	3,8 100 21,5 5,7	NC 1 2 NO 3 4	33E01 33E10
CONTACT BLOCK	KS FOR CONTROL STA	TIONS SCREW TERMINALS	Cat. No.
BACO Sason By American American By American By American By By By By By By By By By B	28.2	NC 1 2 NO 3 4	33S01 33S10
LED BLOCKS – SC	REW TERMINALS		Cat. No.
BACO (®) 33EARL BY SUPPLIES	3,8	LED X1 RED 24V RED 48V RED 130V RED 230V	33EARL 33EARL4 33EARM 33EARH
LED BLOCKS FOR	CONTROL STATIONS	5 – SCREW TERMINALS	Cat. No.
BACO 33SA By	41.6 41.1 22.5 22.5 22.5	LED $\frac{X1}{\bigotimes} \frac{X2}{\bigotimes}$ • RED 24V • RED 130V	33SARL 33SARM
company of the state of the sta	<u> </u>	RED 230V	33SARH



► Separate units

CLIP Cat. No.





3 positions

ø ያ 333E

ROUND LEGEND PLATE FOR MUSHROOM HEAD

Cat. No.





According to ISO 13850 Text + Symbol	$\overline{\Psi}$
Ø60 ARRET D'URGENCE + ₩	LWE16100
NOT-HALT + 🐨	LWE16232
EMERGENCY STOP + W	LWE16300

ARRET D'URGENCE + W	LWE00100
	LWE00232
EMERGENCY STOP + ₩	LWE00300

volunout symbol, text only	
ARRET D'URGENCE	LWE16152
NOT AUS	LWE16200
EMERGENCY STOP	LWE16352

Ø80 Without symbol, text only	
ARRET D'URGENCE	LWE00152
NOT AUS	LWE00200
EMERGENCY STOP	LWE00352

FIXING TOOL Cat. No.



Fixing tool for locking ring

LWA0234

Method for tightening the locking ring: Tightening torque: 3 Nm or tightened with fixing tool to hand tight after pressure point plus another half turn.



► Separate units

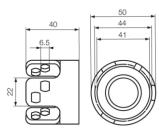
PADLOCKABLE GUARD Cat. No.



For stay -put mushroom head

Yellow

LWA0240



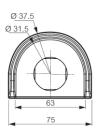
Cat. No. YELLOW GUARD RING



For stay –put mushroom head



Yellow LWA0242



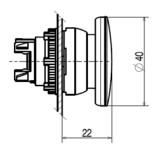




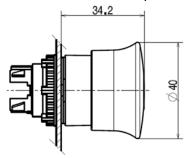
► Technical characteristics

MEASUREMENT

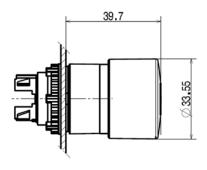
Spring return Mushroom head



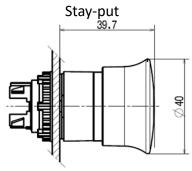
Mushroom head Ø 40 Push-pull Stay -put



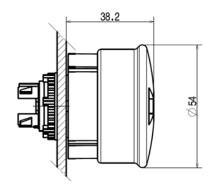
Mushroom head ISO 13850 Ø 32 pushpull stay-put



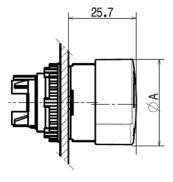
Mushroom head Ø 40, ISO 13850 Push-pull



Mushroom head Ø 54, ISO 13850 Push-pull Stay-put



Mushroom head Push-turn Stay-put



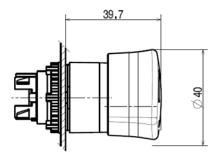
Ref L22EC01/03 ØA = 32 mm Ref L22ED01/03/01B ØA = 40 mm



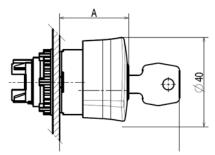
▶ Technical characteristics

MEASUREMENT

Mushroom head ISO 13850 Push-turn Stay-put



Mushroom head Stay-put Key to reset



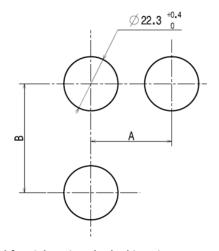
Ref	A (mm)	B (mm)
L22GM01	30.7	53.7
L22GR01	40.8	63.8

INSTALLATION

Drilling:

Standard drilling (products fitted with screw and plug-in connection).

Panel thickness: 1 to 6 mm



		Dimension	
		(mm)	
	=	30	With or without legend (usual case)
	=	33	For silicon shroud IP67
	=	40	With large legend plate
Α	>	40	For Mushroom head Ø 40
	>	45	For selector switch with long handle
	=	38	For super flush button
	=	50	With 5 position clip
В	=	45	With or without legend (usual case)
	=	54	With double touch
	=	77	With double touch + legend plate

Method for tightening the locking ring:

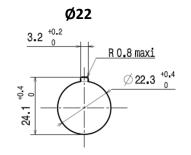
Tightening torque: 3 Nm or tightened with fixing tool (LWA0234) to hand tight after pressure point plus another half turn.

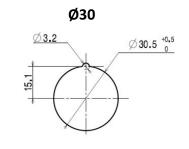


▶Technical characteristics

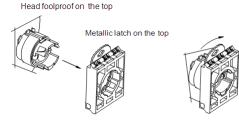
INSTALLATION

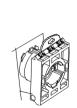
Drilling when using the anti rotation tab:

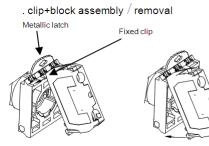




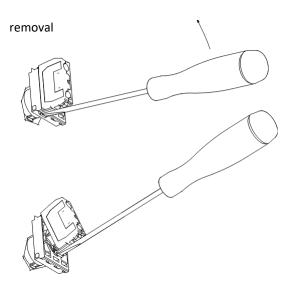
MOUNTING











Technical characteristics

Protection index:

- . IP 66 and NEMA 4x,12,13 for standard heads
- . IP 67 with silicon shroud
- . IP 20 at the back of panel for the one piece pilot lights

Protection against mechanical impact:

. IK 05 for heads



► Technical characteristics

Characteristics	Data	Standards	
Storage temperature	- 40 °C to + 70 °C		
Operating temperature	- 25 °C to + 70 °C		
Climatic resistance	Constant humid heat	IEC 60068-2-3	
	Cyclic damp heat	IEC 60068-2-30	
	Resistance to sea air	IEC 60068-2-52	
Degree of protection	IP 66 for standard heads	IEC 60529	
	IP 66 for equipped control stations	IEC 60529	
	IP 69 and IP69K for push buttons	IEC 60529 - ISO 20653	
	IP 69 and IP69K for emergency stops	IEC 60529 - ISO 20653	
	IP 20 at the rear of the panel for contact blo	cks	
	and one piece pilot lights		
	Type 1, 2, 3, 3R, 3S, 4, 4X, 12, and 13 for	NEMA standard	
	heads and control stations		
➤ Protection against mechanical impacts	IK 05 illuminated and non illuminated heads	IEC 62262	
	IK 07 empty control station		
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 anoth	ier half turn	
	Terminals:max. 1.2 N.m		
Approvals	UL United states and Canada	UL 508, CSA 22.2	
	BV Bureau Véritas	Marine rules	
	Certification OC/CB 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	
Characteristics	Data	Standards	
Mechanical endurance (in million cycles)	Spring return: 5		
Weenamear endurance (in million cycles)	Mushroom head maintained function ISO 13	850· 0 10	
	Mushroom head maintained function: 0,15	030. 0,10	
➤ 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	



► Contact blocks Technical characteristics

Screw and plug-in connection characteristics		Data	Standards	
Rated insulation voltage		690 V AC	IEC 60947-1	
Nated insulation voltage		600 V AC	UL 508	
		000 V AC	OL 300	
►NC contacts		Positive opening	IEC 60947-5-1	
		· -		
Rated impulse voltage Uimp		6kV		
Pollution degree		3		
Conventional thermal current	nt in free air conditions	AC15:10 A	IEC 60947-5	
		DC13: 2,5 A		
Electrical ratings	Alternating current	Direct current	IEC 60947-5-1	
	AC15 - A 600	DC13 - Q 600	.10000.701	
	Ue = 120 V, Ie = 6 A	Ue = 125 V, le = 0,55 A		
	Ue = 240 V, le = 3 A	Ue = 250 V, le = 0,27 A		
	Ue = 380 V, Ie = 1,9 A	Ue = 400 V, le = 0,15 A		
	Ue = 480 V, le = 1,5 A	Ue = 500 V, le = 0,13 A		
	Ue = 500V, le = 1,4 A	Ue = 600V, le = 0,1 A		
	Ue = 600 V, le = 1,2 A	, ,		
	Minimum operating current			
	- standard blocks	- golden contacts		
	Ue = 24 V DC and Ie = 5 mA	Ue = 5 V DC and Ie = 1 mA		
	Failure rate < 10-8	Failure rate < 10 -8		
Electrical operating life	1 million cycles for:			
	- AC15 - B 300	- DC13 - R 300		
	Ue = 120 V, le = 3 A	Ue = 125 V, le = 0,22 A		
	Ue = 240 V, le = 1,5 A	Ue = 250 V, le = 0,1 A		
Applicable wire sizes	Rigid or flexible wire without fe	rrule: 0.5 mm2 to 2 x 2.5 mm2		
	Rigid or flexible wire with ferrule: 0,5 mm2 to 2 x 1,5 mm2			



► Led block Technical characteristics

Data	Standards
200.1/	150 000 47 5 4
	IEC 60947-5-1
4 kV (with filter block see p. 64)	IEC 60947-1
Pollution degree 3	
12 to 24 V AC/DC	
48 V AC/DC (for LED block)	
130 V AC	
230 V AC	
50 or 60 Hz	
Red and yellow: 100 000 hours at 25 °C	
Other colours: 50 000 hours at 25 °C	
Voltage:	
- 24 V: 25 mA ± 20%	
- 48 V: 15 mA ± 5%	
- 130 V: 20 mA ± 10%	
- 230V: 16mA ± 30%	
	300 V 4 kV (with filter block see p. 64) Pollution degree 3 12 to 24 V AC/DC 48 V AC/DC (for LED block) 130 V AC 230 V AC 50 or 60 Hz Red and yellow: 100 000 hours at 25 °C Other colours: 50 000 hours at 25 °C Voltage: - 24 V: 25 mA ± 20% - 48 V: 15 mA ± 5% - 130 V: 20 mA ± 10%

► Technical characteristics Ø30

Characteristics	Data	Standards
Storage temperature		
Storage temperature		
for illuminated or non illuminated button	- 40°C to + 70°C	
➤ Operating temperature	Non illuminated buttons: - 25°C to + 70°C	
	Illuminated buttons: - 25°C to + 60°C	
Degree of protection	IP 65 for standard heads	IEC 60947-1
	IP 67 for shrouded heads	
➤ Mechanical life	Spring return push button:	IEC 60947-5-1
Mechanical me		IEC 00347-3-1
	3 x 10 ⁶ operating cycles	

The blocks used for diameter 30 are the same as for diameter 22.



► Notes

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