Control and signalling Pushbuttons and selector switches



Different types of actuators: metal, flat metal and chrome finished plastic

- Simple and snap on installation
- Highly conductive contacts
- Robust for severe ambient conditions
- Contact operation: double breaking action, direct opening operation and self cleaning
- Plastic and metal enclosure.

SERIES		LPS	LPF	LPC
SEC.	-	Page	PAGE	Page

PLatinum series

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7



BUTTON ACTUATORS

- · Spring return flush, extended and shrouded
- · Push-push flush and extended
- Mushroom-head
- Mechanical reset
- Illuminated.



- **DOUBLE AND TRIPLE-TOUCH ACTUATORS**
- · Double-touch with or without indicator
- Triple-touch.



SELECTOR SWITCHES

- · Short lever
- · Long lever
- Key
- Knob
- Illuminated.



- PILOT LIGHTS Ø22mm
- · Monoblock LED.

MONOBLOCK BUZZERS Ø22mm

• Continuous or pulse tone.

COMMUNICATION INTERFACES

- USB. RJ45.



JOYSTICKS Ø22mm

- 2 directions
- 4 directions
- 2 directions with mechanical interlock
- · 4 directions with mechanical interlock
- Complete with contact elements.



POTENTIOMETERS Ø22mm

- · Potentiometer included in the product with graduated scale
- · Potentiometer drives with: - graduated scale
- variable index.



ADD-ON ELEMENTS, ACCESSORIES AND SPARE PARTS

- Mounting adapters
- Contact elements
- Lamp holders
- LED integrated elements
- · Labels, label holders, protections, etc.



PLASTIC CONTROL STATIONS

- 1 to 6 holes option without actuators
- Complete versions from 1 to 3 actuators in various combinations.



METAL CONTROL STATIONS • Without actuators (from 1 to 16 holes)

• Version without holes.



INDEX



A COMPLETE SERIES AT YOUR FINGERTIPS!



 HIGH DEGREE OF PROTECTION IP66, IP67 and IP69K

The actuators have been tested to guarantee a degree of protection per IEC/EN IP66, IP67, IP69K and per UL Type 4X, appropriate for use even in extreme ambient conditions.

- ELEGANT STYLE AND ERGONOMIC DESIGN All the series elements have an ergonomic design and, at the same time, particular care has been given to the finest detail aesthetics.
- LONG ACTUATOR MECHANICAL LIFE High performance characteristics assure 5,000,000 cycle mechanical life for spring return actuators, 1,000,000 for double and triple touch units and 300,000 for emergency-stop types.
- MATERIALS RESISTANT TO OILS, SOLVENTS AND HYDROCARBONS
- CUSTOMIZATION
 To facilitate warehouse management, it
 is possible to purchase spring return or
 push-push button actuators without
 caps or lenses and at the same time
 caps and lenses as spare parts.
 This allows for custom buttons to be
 completed from stock.



HIGH STANDARDIZATION
 Contact clamanta LED light clamanta and a

Contact elements, LED light elements and a wide range of accessories are common to all types of the series.

 USAGE AT EXTREME TEMPERATURE CONDITIONS

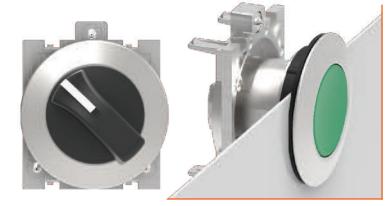
Operation temperature range between -25° and +70°C.

CERTIFICATIONS: cULus, EAC, RINA and CCC.



INDEX

Ø30mm flat metal LPF



Ø22MM METAL LPS



- OPERATORS MADE OF ALUMINIUM AND ZINC ALLOY
- ACTUATOR PROFILE OF ONLY 4mm
- HIGH STRENGTH
- ERGONOMIC AND FUNCTIONAL
- SCREW PANEL FIXING

TYPES

- spring return and push-push button actuators
- lever, key and knob selectors
- illuminated spring return and push-push button actuators
- illuminated lever selectors
- USB and RJ45 communication interfaces.
- OPERATORS MADE OF ALUMINIUM AND ZINC ALLOY
- HIGH STRENGTH AND IMPACT RESISTANCE
- SCREW PANEL FIXING

TYPES

- spring return and push-push button actuators
- spring return mechanical reset button actuators
- mushroom head push button actuators
- spring return double and triple-touch button actuators
- lever, key and knob selector switch actuators
- illuminated spring return, push-push and mushroom-head actuators
- spring return double-touch button actuators with indicator
- illuminated lever selectors
- joysticks.

Ø22MM CHROMED PLASTIC LPC



- ACTUATORS MADE OF POLYAMIDE WITH EXTERNAL CHROME RING
- SNAP-ON FAST INSTALLATION OF THE MOUNTING BASE AND CONTACT ELEMENTS
- PANEL FIXING BY THREADED RING

TYPES

- spring return and push-push button actuators
- spring return mechanical reset button actuators
- mushroom head push button actuators
- spring return double and triple-touch button actuators
- lever, key and knob selector switch actuators
- illuminated spring return, push-push and mushroom-head actuators
- spring return double-touch button actuators with indicator
- illuminated lever selectors
- monoblock LED pilot lights
- monoblock potentiometers and buzzers
- USB and RJ45 communication interfaces.



PLatinum series

INDEX



QUICK AND EASY ACTUATOR INSTALLATION





LOW PROFILE OPERATORS AND COMPACT FOOTPRINT

- The operator's external collar has a low profile and reduced front depth.
- The total depth from the panel surface to the first contact element is just 43mm for the Ø22mm metal/plastic type, and 49mm for the Ø30mm flushmounting metal type.

7-4

Ø22mm metal

4mm

43mm

49mm

Ø30mm flat metal



43mm

10mm

10mm

Ø22mm chromed plastic

PLatinum series

INDEX





MONOBLOCK BUZZERS



- Continuous or pulse-tone monoblock buzzers in a single product
- IP40 version (90dB/10cm) and IP66, IP67, IP69K and UL Type 4X, version (80dB/10cm) available.

- COMMUNICATION INTERFACES



- Protection rating IP65, UL Type 4X
 USB and RJ45 for Ethernet types with data transmission in both
- directions - USB type 3.0 (backward compatible
- with USB 2.0) - Versions complete with cable.

JOYSTICKS



- Complete with contact elements
- 2 and 4 directions available versions with or without mechanical interlock.

ACCESSORIES



- DIN rail adapter
- Label holders and labels
- Rubber operator hoods
- Padlockable protection
- Protective covers.

PLASTIC CONTROL STATIONS



- Protection rating IP66, IP67, IP69K and Type 4X per UL
- 1 to 6 hole empty versions
 Complete 1 to 3 operator versions in
- a variety of combinations Quick installation and easy cabling of the contacts and LED elements with mounting to the bottom (snap
- Option to also install screw-in and spring-mounting LED elements together with the operator inside the cover panel.
- MOUNTING THE CONTACTS TO THE BOTTOM OF THE CONTROL STATION



- The use of contact and LED lamp holder elements that snap mount to the bottom of the control station makes for easier cabling.

YELLOW CONTROL STATION WITH ACTUATOR SHROUD



- Protective cover integrated into the button panel cover
- Protection rating IP66, IP67, IP69K and UL Type 4X
- 4 knockout holes for cable wiring
 Kit of 4 caps to protect the screws.

METAL CONTROL STATIONS



- Protection rating IP66, IP67 and UL Type 4X
- From 1 to 16 holes version
- 1 hole version with actuator protection
- Version without holes.

ne

new

INDEX

PLatinum series Ø22mm metal

Pushbutton actuators, spring return





LPSB20...



LPSB30...

Push-push button actuators





Order code	Colour	Qty per pkg	Wt		
		n°	[kg]		
Flush (without m	ounting adapter). Sprin	g return.			
LPSB102	Black	5	0.031		
LPSB103	Green	5	0.031		
LPSB104	Red	5	0.031		
LPSB105	Yellow	5	0.031		
LPSB106	Blue	5	0.031		
LPSB108	White	5	0.031		
Extended (without mounting adapter). Spring return.					
LPSB202	Black	5	0.033		
LPSB203	Green	5	0.033		
LPSB204	Red	5	0.033		
LPSB205	Yellow	1	0.033		
LPSB206	Blue	1	0.033		
LPSB208	White	1	0.033		
Shrouded (without	ut mounting adapter). S	pring return			
LPSB302	Black	5	0.033		
LPSB303	Green	5	0.033		
LPSB304	Red	5	0.033		
LPSB305	Yellow	1	0.033		
LPSB306	Blue	1	0.033		
LPSB308	White	1	0.033		

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without n Push on-push o	nounting adapter). f.		
LPSQ1020	Black	5	0.031
LPSQ1030	Green	5	0.031
LPSQ1040	Red	5	0.031
LPSQ1050	Yellow	1	0.031
LPSQ1060	Blue	1	0.031
LPSQ1080	White	1	0.031
Extended (witho Push on-push or	ut mounting adapter). f.		
LPSQ2020	Black	5	0.033
LPSQ2030	Green	5	0.033
LPSQ2040	Red	5	0.033
LPSQ2050	Yellow	1	0.033
LPSQ2060	Blue	1	0.033
LPSQ2080	White	1	0.033

 Use contact elements LPXC10A (EM) and LPXC01 (NC) only. Contact elements LPXC10 (NO) and LPXC01D (LB) cannot be fitted on these actuators.

For the number of contacts that can be fitted, see the indication here to the side

Operational characteristics

- Any mounting position allowed _
- Ambient conditions: Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C Degree of protection: • Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

1 . . .

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life:

- Spring return actuators: 5,000,000 cycles
 Push-push actuators: 500,000 cycles.

Mounting adapter See page 7-36. Type: LPXAU120M.

The adapter is fixed to the mounting surface by means of

incorporated screws (Tmax = 0.7Nm/6.1lb.in). Actuators latch onto the mounting adapter by simple rotation.

Contact elements for spring return button actuators See page 7-36 and 7-38.

Туре	Termination
Front-mount types snap onto LPX	AU120M mounting adapter
(to purchase separately).	

Up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other.

The LPXAU120M mounting adapter can also be fitted internally to the cover of the LPZ... control station with up to 3 elements per actuator.

1NO	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Base mount types snap into LPZP... control station base. See example on page 7-38.

Up to 3 contacts can be fitted per control station.

1N0	LPXCB10	Screw
1NC	LPXCB01	Screw

Contact elements for push-push button actuators

See page 7-37. LPXC10A (1EM) Type:

LPXC01 (1NC)

Contacts snap onto the mounting adapter which can also be used with LPZ... control stations.

Up to 6 contacts can be fitted: 2 each on the left, middle or right; up to 3 elements can be fitted to the adapter when used with the LPZ... control station.

All these actuators are standard supplied with action plug for middle contacts.

Certifications and compliance

Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

Order code

PLatinum series Ø22mm metal

Mechanical reset buttons, complete unit, spring return



LPSR1196

INDEX



			P P 3				
			n°	[kg]			
	Flush (5.2mm/0.2" stroke). Adjustable length 0-150mm/5.9". Complete with shaft (without mounting adapter). Spring return.						
	LPSR1002	Black	5	0.044			
	LPSR1003	Green	5	0.044			
	LPSR1004	Red	5	0.044			
	LPSR1006	Blue	5	0.044			
	LPSR11960	Blue (RESET)	5	0.044			
1	Extended (5.2mm/0.2" stroke). Adjustable length 0-150mm/5.9". Complete with shaft (without mounting adapter). Spring return.						
	LPSR2004	Red	1	0.046			

Qty

.

per pka

Wt

1

Colour

With "BESET" caption on actuator E.g. Not suitable for LPZ... control stations.

Pushbutton actuators, spring return, with symbol



LPSB11...



LPSB21...

Pushbutton actuators, spring return, with special symbols

nev



LPSB...

	Order code	Symbol	Colour	Qty per pkg	Wt		
				n°	[kg]		
	Flush (without m	ounting adapt	er). Sprin	g return.			
	LPSB1102	0	Black	5	0.031		
	LPSB1104		Red	5	0.031		
	LPSB1113	I	Green	5	0.031		
	LPSB1118		White	5	0.031		
	LPSB1123	II	Green	1	0.031		
	LPSB1128		White	1	0.031		
	LPSB1132	STOP	Black	1	0.031		
	LPSB1134		Red	5	0.031		
N	LPSB1142	- 0	Black	5	0.031		
	LPSB1148	-0	White	5	0.031		
	LPSB1152	10	Black	5	0.031		
	LPSB1158	۲	White	5	0.031		
	LPSB1163	START	Green	5	0.031		
	LPSB1168		White	1	0.031		
	LPSB1176	R	Blue	1	0.031		
	LPSB1178		White	1	0.031		
	LPSB1196	RESET	Blue	5	0.031		
	LPSB1502		Black	5	0.031		
	LPSB1512	→ ←	Black	5	0.031		
	Extended (without	it mounting a	dapter). S	pring return.			
	LPSB2102	0	Black	5	0.033		
	LPSB2104		Red	5	0.033		
	LPSB2132	STOP	Black	1	0.033		
	LPSB2134		Red	5	0.033		
	• Arrow symbol can be used to indicate right or left.						

Arrow symbol can be used to indicate up or down.

	Order code Ø G	Symbol	Colour	Qty per pkg	Wt
				n°	[kg]
	Spring return (with	out mounting	adapter).		
	LPSBO@180	40	0	50	0.033
	LPSB00340	MAN	6	50	0.033
1	LPSB00350	AUTO	6	50	0.033
	LPSB00220	/	6	50	0.033
	LPSB00230		6	50	0.033
	Note: for other symbols	see name 7-35		-	

Note: for other symbols see page 7-35.
Add letter "L" if illuminated type is required.
For the type of actuator, add: 1 for flush or 2 for extended.

- Add the actuator colour: 2 black only for non-illuminated type; 3 green, 4 red, 5 yellow, 6 blue, 8 white or 7 transparent for illuminated version.
- Products available on specific request for a minimum multiple quantity of 50 pieces per type.
- Consult Technical support for assistance; see contact details or inside front cover.

G Symbol indicating dangerous voltage (IEC 60417 5036-a)

Examples of complete order codes: LPSB2258 – extended non-illuminated white pushbutton with + symbol; LPSBL1685 – flush illuminated yellow pushbutton actuator with 🗥 symbol.

Operational characteristics

- Any mounting position allowed Ambient conditions:
- _ • Operating temperature: -25...+70°C • Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K • Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life: 5,000,000 cycles.

Mounting adapter

See page 7-36.

Type: LPXAU120M The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.7Nm/6.1lb.in). Actuators latch onto the mounting adapter by simple rotation.

Contact elements for LPSR... mechanical reset buttons See page 7-37 and 7-38.

Туре Termination Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately). Up to 6 contacts can be fitted: 2 each on the left and right, one behind the other. LPXC10 1N0 Screw

	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Contact elements for spring return button actuators

See page 7-37 and 7-38.

Туре Termination

Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately).

Up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other.

The LPXAU120M mounting adapter can also be fitted

internally to the cover of the LPZ... control station with up to 3 elements per actuator.

L	.PXC10	Screw
L	.PXCF10	Faston
L	PXCS10	Spring clamp
LPXC10A Scr		Screw
L	.PXC01	Screw
L	.PXCF01	Faston
L	PXCS01	Spring clamp
L	.PXC01D	Screw
-	.PXC01D	

Base mount types snap into LPZP... control station base. See example on page 7-38.

Up to 3 elements can be fitted to the adapter when used with the LPZ... control station

1N0	LPXCB10	Screw
1NC	LPXCB01	Screw

All LPSB actuators are standard supplied with action plug for middle contacts.

7-7

Certifications and compliance

Certifications: cULus, EAC, RINA Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.



PLatinum series Ø22mm metal

Mushroom head pushbutton actuators LPSB614... new

LPSB616...

INDEX





nev





LPSB6844

Normal operation of auto-monitor contact mounted on surface or on cover of control stations









Contact .3-.4 closes when the LPXAU120M mounting adapter and LPX...SM contact are fitted correctly on the mushroom-head latch actuator. Contact 1-.2 in series does not change state. Θ .3 .1 .4 .2 When the button is fully pressed, contact .1-.2 opens and remains in this state until the button is released. .4 .2 released. Contact .3-.4 in series does not change state. With contact type LPXC02SM (2NC) $\Theta \Theta$ Contact .3-.4 closes when the 1.3 1 1 1 LPXAU120M mounting adapter and LPX...SM contact are fitted correctly on the mushroom-head latch actuator. .3 [.1 [.1 Both contacts .1-.2 in series do not change state.

6

 $\Theta \Theta$ When the button is fully pressed. 3 [.1 [.1 both contacts .1-.2 open and remain in this state until the button .2 .2 is released. Contact .3-.4 in series does not change state.

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
SPRING RETURN. Ø40mm/1.57" (witho	ut mounting a	dapter).	
LPSB6142	Black	5	0.038
LPSB6143	Green	5	0.038
LPSB6144	Red	5	0.038
LPSB6145	Yellow	5	0.038
LPSB6146	Blue	5	0.038
Ø60mm/2.36" (witho	ut mounting a	dapter).	
LPSB6162	Black	5	0.044
LPSB6163	Green	1	0.044
LPSB6164	Red	5	0.044
LPSB6165	Yellow	1	0.044
LPSB6166	Blue	1	0.044
LATCH, PULL TO REL Ø40mm/1.57" (witho For normal stopping.		dapter).	
LPSB6742	Black	5	0.102
For emergency stopp	ing, ISO 13850) compliant.	
LPSB6744	Red	5	0.102
LATCH, TURN TO RE Ø30mm/1.18" (without For emergency stopp	ut mounting ad		
LPSB6634	Red	5	0.048
Ø40mm/1.57" (witho For normal stopping.	ut mounting a	dapter).	
LPSB6642	Black	5	0.051
Ø40mm/1.57" (witho For emergency stopp			
LPSB6644	Red	5	0.084
LATCH, TURN KEY TO Ø40mm/1.57" (withou For normal stopping.		apter). Key cod	e n° 455.
LPSB6842	Black	5	0.088
LPSB6842RO	Black	1	0.088
For emergency stopp	ing, ISO 13850) compliant.	
LPSB6844	Red	5	0.088
LPSB6844R0	Red	1	0.088
Versions with different k Complete with the nume The following versions a Example of complete coo	ric code of the key re available: 421E,	458A, 520E, 3131	A, 3433E.

Example of complete code: LPSB6844R421E.

In case of detachment of only the contact element and/or of the mounting adapter with contact element

With contact type LPXC01SM (1NC)





If the contact LPX C02SM detaches from the actuator

due to strong vibrations or shock, the equipment can be restored to operating state only when proper mounting of the contact with the actuator is re-established resulting in contact .3-.4 closing.





Operational characteristics

- Any mounting position allowed
- Ambient conditions: Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator).

Mechanical life:

Spring return mushroom-head actuators: 5,000,000 cycles - Latch mushroom-head actuators: 300,000 cycles.

Mounting adapter

See page 7-36. Type: LPXAU120M.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.7Nm/6.1lb.in). Actuators latch onto the mounting adapter by simple rotation.

Contact elements

See page 7-37 and 7-38.

Termination Tvpe Front-mount types snap onto LPXAU120M mounting adapter

(to purchase separately). For SPRING RETURN types, up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other.

For LATCH types, up to 4 contacts can be fitted. The LPXAU120M mounting adapter can also be fitted

internally to the cover of the LPZ... control station with up to 3 elements per actuator.

1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw
-		

Base mount types snap into LPZP... control station base.

See example on page 7-38.

Up to 3 elements can be fitted to the adapter when used with the LPZ... control station.

1NO	LPXCB10	Screw
1NC	LPXCB01	Screw

AUTO-MONITOR CONTACT with MUSHROOM-HEAD LATCH TYPES only: 2 elements max of this type can be mounted. Extra two contacts can be fitted on the right.

Two elements per actuator can be fixed internally on the cover surface of LPZ... control stations of which one auto-monitor type. No LED element can be installed

type. No LLD element can be installed.			
Auto-monitor 1NC	LPXC01SM	Screw (2 stacked in the middle - LPXAU120M pos.1/3-4/6)	
1NO	LPXC10	Screw (2 stacked on the right)	
	LPXCF10	Faston (2 stacked on the right)	
	LPXCS10	Spring clamp (2 stacked on the right)	
1NC	LPXC01	Screw (2 stacked on the right)	
	LPXCF01	Faston (2 stacked on the right)	
	LPXCS01	Spring clamp (2 stacked on the right)	
Auto-monitor 2NC	LPXC02SM	Screw (2 stacked)	

All these actuators are standard-supplied with action plug for middle contacts

Certifications and compliance

Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

Add-on blocks

7-8

Dimensions page 7-63

page 7-36 to 42







new

eM

Ouden eede

Order code

LPSB7365

LPSB7375

PLatinum series Ø22mm metal

Double-touch actuators, spring return



LPSB71

INDEX



	GOIDUI	Symbols	per pkg	VVL
			n°	[kg]
Two flush pushbuttons (without mounting adapter). Both spring return.				

Oalaum

Cumhala Ohu

14/4

LPSB7112	Black/Red		5	0.035
LPSB7113	Green/Red		5	0.035
LPSB7114	White/Black		5	0.035
LPSB7122	Black/Red	I-0	5	0.035
LPSB7123	Green/Red	I-0	5	0.035
LPSB7124	White/Black	I-0	5	0.035
LPSB7133	Green/Red	Start/Stop	5	0.035
LPSB7191	Black/Black		5	0.035
		I		
		♥		

One extended and one flush pushbuttons (without mounting adapter). Both spring return.

LPSB7212	Black/Red		1	0.035
LPSB7213	Green/Red		5	0.035
LPSB7214	White/Black		1	0.035
LPSB7222	Black/Red	I-0	5	0.035
LPSB7223	Green/Red	I-0	5	0.035
LPSB7224	White/Black	I-0	1	0.035
LPSB7233	Green/Red	Start/Stop	5	0.035

Qty

5

5

per pkg

Wt

0.035

0.035

Tripl	e-touch	actuators,
sprii	n <mark>g retur</mark> ı	1



		n°	[kg]
One middle extended buttons (without mounting adapter). Spring return.			
LPSB7345		5	0.035
	STOP		
	11		
LPSB7355	1	5	0.035

Symbols

STOP

↓

STOP

X STOP K

Operational characteristics

- Any mounting position allowed Ambient conditions:
- _
- Operating temperature: -25...+70°C
 Storage temperature: -40...+85°C Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-36.

Type: LPXAU120M The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.7Nm/6.1lb.in). Actuators latch onto the mounting adapter by simple rotation.

Contact elements

Туре

See page 7-37 and 7-38.

Termination

Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately).

For DOUBLE-TOUCH actuators, up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other. For TRIPLE-TOUCH actuators, up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other

The LPXAU120M mounting adapter can also be fitted internally to the cover of the LPZ... control station with up to 3 elements for double-touch and 3 elements for triple-touch actuators.

1N0	LPXC10	Screw		
	LPXCF10	Faston		
	LPXCS10	Spring clamp		
1EM	LPXC10A	Screw		
1NC	LPXC01	Screw		
	LPXCF01	Faston		
	LPXCS01	Spring clamp		
1LB	LPXC01D	Screw		
		control station base.		
See example of				
	For DOUBLE-TOUCH actuators, 2 contacts need to be fitted,			
one on the left	he left and one on the right.			

For TRIPLE-TOUCH actuators, 3 contacts need to be fitted: one each on the left middle and right

1NO	LPXCB10	Screw
1NC	LPXCB01	Screw

All these actuators are standard-supplied with action plug for middle contacts.



The middle contact activation, with respect to the right and left side contact, can be changed by the user, if required, by removing one mechanism pin. Consult the relative instructions available online in the Downloads section at www.LovatoElectric.com.

Certifications and compliance

Certifications: cULus, EAC, RINA Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.



Order code

Order code

LPSS220

LPSS221

LPSS230

LPSS231

LPSS232

LPSS233

PLatinum series Ø22mm metal

Selector switch actuators lever



LPSS1.

INDEX

new

		positions	per pkg		
			n°	[kg]	
	2 positions (without mounting adapter).				
	LPSS120	\sim	5	0.042	
	LPSS121	∇	5	0.042	
-	3 positions (without mounting adapter).				
	LPSS130	\checkmark	5	0.042	
	LPSS131	$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	5	0.042	
	LPSS132	\swarrow	5	0.042	
	LPSS133	\checkmark	5	0.042	
				-	

Type of

2 positions (without mounting adapter)

3 positions (without mounting adapter).

positions

(])

 $\langle |$

Type of

Qty

Qty

n°

5

5

5

5

5

5

per pkg

Wt

[kg]

0.045

0.045

0.045

0.045

0.045

0.045

Wt

Selector switch actuators long lever



new

LPSS2...

Selector switch actuators key (Ronis)



LPSS3...



Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (without	ut mounting adapter).		
LPSS320	•	5	0.065
LPSS320RO		1	0.065
LPSS321	• •	5	0.065
LPSS321RO		1	0.065
LPSS340	•	5	0.065
LPSS340RO		1	0.065
3 positions (without	ut mounting adapter).		
LPSS330		5	0.065
LPSS330R0	\vee	1	0.065
LPSS331		5	0.065
LPSS331RO	\vee	1	0.065
LPSS332@		5	0.065
LPSS332R00	\vee	1	0.065
LPSS333@		5	0.065
LPSS333R00	\vee	1	0.065
LPSS350		5	0.065
LPSS350RO	·\/	1	0.065
LPSS360		5	0.065
LPSS360R0	N/	1	0.065
LPSS370@	(1)	5	0.065
LPSS370R00	<u></u>	1	0.065
LPSS380@		5	0.065
LPSS380R00	<u>`</u> ↓	1	0.065
LPSS390@		5	0.065
LPSS390RO@		1	0.065

Versions with different key codes. Complete with the numeric code of the key. The following versions are available: 421E, 458A, 520E, 3131A, 3433E. Example of complete code: LPCS320R421E.

Available only on specific request

page 7-44 to 51

Operational characteristics

- Any mounting position allowed Standard key types supplied with Ronis key code n° 455
- Ambient conditions: _ Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C Degree of protection:
 - Per IEC/EN: IP66, IP67 and IP69K Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-36

Type: LPXAU120M

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.7Nm/6.1lb.in). Actuators latch onto the mounting adapter by simple rotation.

Contact elements

See page 7-37 and 7-38.

Туре Termination Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately). Up to 6 contacts can be fitted: 2 each on the left, middle and right or 3 each on the left and right, one behind the other. The LPXAU120M mounting adapter can also be fitted internally to the cover of the LPZ... control station with up to 3 elements per actuator.

1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Base mount types snap into LPZP... control station base. See example on page 7-38.

Up to 3 elements can be fitted to the adapter when used with the LPZ... control station.

1NO	LPXCB10	Screw
1NC	LPXCB01	Screw

All these actuators are standard-supplied with action plug for middle contacts.



The middle contact activation, with respect to the right and left side contact, can be changed by the user, if required, by removing one mechanism pin. Consult the relative instructions available online in the Downloads section at www.LovatoElectric.com.

Type of position

- Maintained position.
- \checkmark Spring return position.
- Key extraction position.

Rotation angles

2 positions 3 positions

Certifications and compliance Certifications: cULus, EAC, RINA Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

7-10



nev

PLatinum series Ø22mm metal

INDEX

Selector switch actuators knob

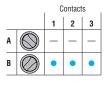


	Order code	Type of positions	Qty per pkg	Wt	
			n°	[kg]	
	2 positions (without mounting adapter).				
	LPSS420	\sim	5	0.042	
	LPSS421	$\langle \rangle$	5	0.042	
-	3 positions (without mounting adapter).				
	LPSS430	\checkmark	5	0.042	
	LPSS431	\bigcirc	5	0.042	
	LPSS432		5	0.042	
	LPSS433	\checkmark	5	0.042	

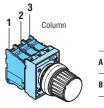
Contact activation

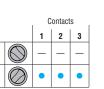
2-position selector switch

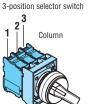


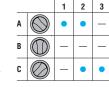


2-position selector switch









1

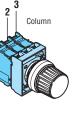
Contacts

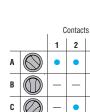
3

3

•

3-position selector switch





Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K • Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-36. Type: LPXAU120M

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.7Nm/6.1lb.in). Actuators latch onto the mounting adapter by simple rotation

Contact elements

See page 7-37 and 7-38.

Туре Termination Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately). Up to 6 contacts can be fitted: 2 each on the left, middle and right or 3 each on the left and right, one behind the other. The LPXAU120M mounting adapter can also be fitted internally to the cover of the LPZ ... ontrol station with up to 3 elements per

control station with up to 5 elements per actuator.		
1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Base mount types snap into LPZP... control station base. See example on page 7-38.

	Up to 3 elements can be fitted to the adapter when used with the LPZ control station.		
1NO		LPXCB10	Screw

1NC LPXCB01 Screw

All these actuators are standard-supplied with action plug for middle contacts.



The middle contact activation, with respect to the right and left side contact, can be changed by the user, if required, by removing one mechanism pin. Consult the relative instructions available online in the Downloads section at www.LovatoElectric.com.

Type of position

Maintained position.

Spring return position.

Rotation angles

2 positions



Certifications and compliance Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.



LPSBL207

nev

new

PLatinum series Ø22mm metal

Illuminated button actuators, spring return



LPSBL10...

INDEX



LPSBL20...

Illuminated push-push button actuators



LPSQL10...



LPSQL20...

LPSBL 614....

Qty Order code Colour Wt per pkg n° [kg] Flush (without mounting adapter). Spring return. LPSBL103 0.030 Green 0.030 LPSBL104 Red 5 0.030 LPSBL105 Yellow 5 LPSBL106 Blue 5 0.030 new LPSBL107 Transparent 5 0.030 Extended (without mounting adapter). Spring return LPSBL203 Green 5 0.032 LPSBL204 Red 5 0.032 LPSBL205 Yellow 5 0.032 LPSBL206 Blue 5 0.032

Transparent

5

0.032

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without me Push on-push off			
LPSQL1030	Green	5	0.030
LPSQL1040	Red	5	0.030
LPSQL1050	Yellow	5	0.030
LPSQL1060	Blue	5	0.030
LPSQL1070	Transparent	5	0.030
Extended (without mounting adapter). Push on-push off.			
LPSQL2030	Green	5	0.032
LPSQL2040	Red	5	0.032
LPSQL2050	Yellow	5	0.032
LPSQL2060	Blue	5	0.032
LPSQL2070	Transparent	5	0.032
Ise contact elements PXC10A (FM) and PXC01 (NC) only			

Use contact elements LPXC10A (EM) and LPXC01 (NC) only. Contact elements LPXC10 (NO) and LPXC01D (LB) cannot be fitted on these actuators.

Order code	Colour	Qty	Wt
		per pkg	
		poi pilg	
		n°	[kg]
SPRING RETURN			
	مقصمات مستقصيت مصبقا مساقا		

Ø40mm/1.57" (without mounting adapter).				
LPSBL6143	Green	5	0.040	
LPSBL6144	Red	5	0.040	
LPSBL6145	Yellow	5	0.040	
LPSBL6146	Blue	5	0.040	
LPSBL6148	White	1	0.040	
LATCH, TURN TO RELEASE. Ø40mm/1.57" (without mounting adapter). For normal stopping.				

For normal stopping.				
LPSBL6643	Green	1	0.045	
LPSBL6645	Yellow	1	0.045	
LPSBL6646	Blue	1	0.045	
For emergency stopping, ISO 13850 compliant.				
LPSBL6644	Red	5	0.045	

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K • Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life:

- Spring return actuators: 5,000,000 cycles
- Push-push actuators: 500,000 cycles
- Spring return mushroom-head actuators: 5,000,000 cycles _
- _ Latch mushroom-head actuators: 300,000 cycles.

Mounting adapter

See page 7-36. Type: LPXAU120M.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.7Nm/6.1lb.in). Actuators latch onto the mounting adapter by simple rotation

Contact elements for illuminated spring return and mushroom-head latch actuators See page 7-37 and 7-38.

Туре	Termination
Front-mount types snap ont	to LPXAU120M mounting adapter
(to purchase separately).	
For types LPSBL1/BL2/BL6	1 up to 6 contacts can be fitted:
3 each on the left and right	one behind the other

each on the left and right, one behind the other For types LPSBL66... up to 4 contacts can be fitted: 2 each on the left and right, one behind the other. The LPXAU120M mounting adapter can also be fitted internally to the cover of the LPZ... control station with up to 2 elements per actuator in addition to the LED element in the middle position.

1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Base mount types snap into LPZP... control station base. See example on page 7-38.

Up to 2 elements per actuator can also be fitted internally to the cover of the LPZ... control station in addition to the LED element in the middle position.

1NO	LPXCB10	Screw
1NC	LPXCB01	Screw

Contact elements for illuminated push-push button actuators See page 7-37. Type:

LPXC10A (1EM) LPXC01 (1NC)

Contacts snap onto the adapter also internally on the cover surface of LPZ... control stations.

Up to 4 contacts can be fitted: 2 each on the left and right. one behind the other; up to 2 elements per control station actuator in addition to the LED element in the middle position.

LED light elements

See pages 7-39 to 42.

Certifications and compliance

Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.



Illuminated mushroom head button actuators

page 7-44 to 51

Dimensions page 7-63



Order code

PLatinum series Ø22mm metal

Double-touch actuators, spring return, white indicator



LPSBL71...



Both spring return. LPSBL7112 Black/Red 0.035 5 0.035 LPSBL7113 Green/Red 5 0.035 LPSBL7114 White/Black 1 LPSBL7122 Black/Red 0.035 1-0 5 LPSBL7123 Green/Red 1-0 5 0.035 0.035 LPSBL7124 White/Black 1-0 5 LPSBL7133 Green/Red Start/Stop 5 0.035 LPSBL7191 Black/Black 5 0.035 Τ new

Two flush pushbuttons (without mounting adapter).

Colour

Qty

n°

per pkg

Wt

[kg]

Symbol

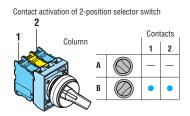
One extended and one flush pushbuttons (without mounting adapter). Both spring return.

LPSBL7212	Black/Red		1	0.035
LPSBL7213	Green/Red		5	0.035
LPSBL7214	White/Black		1	0.035
LPSBL7222	Black/Red	I-0	1	0.035
LPSBL7223	Green/Red	I-0	5	0.035
LPSBL7224	White/Black	I-0	5	0.035
LPSBL7233	Green/Red	Start/Stop	5	0.035

Illuminated selector switch actuators

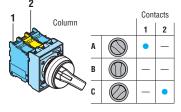


LPSSL1...



new

Contact activation of 3-position selector switch



Order code	Colour	Type of positions	Qty per pkg	Wt			
			n°	[kg]			
2 positions (wi	2 positions (without mounting adapter).						
LPSSL1203	Green		5	0.030			
LPSSL1204	Red		5	0.030			
LPSSL1205	Yellow		5	0.030			
LPSSL1206	Blue		5	0.030			
LPSSL1208	White		5	0.030			
LPSSL1213	Green		5	0.030			
LPSSL1214	Red		1	0.030			
LPSSL1215	Yellow		1	0.030			
LPSSL1216	Blue		1	0.030			
LPSSL1218	White		5	0.030			
3 positions (wi	thout mounting a	idapter).					
LPSSL1303	Green		5	0.030			
LPSSL1304	Red		5	0.030			
LPSSL1305	Yellow		5	0.030			
LPSSL1306	Blue		5	0.030			
LPSSL1308	White		5	0.030			
LPSSL1313	Green		5	0.030			
LPSSL1314	Red		1	0.030			
LPSSL1315	Yellow		1	0.030			
LPSSL1316	Blue		1	0.030			
LPSSL1318	White		5	0.030			
LPSSL1323	Green		5	0.030			
LPSSL1324	Red		1	0.030			
LPSSL1325	Yellow		1	0.030			
LPSSL1326	Blue		1	0.030			
LPSSL1328	White		5	0.030			
LPSSL1333	Green		5	0.030			
LPSSL1334	Red		1	0.030			
LPSSL1335	Yellow		1	0.030			
LPSSL1336	Blue		1	0.030			
LPSSL1338	White		5	0.030			

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C Degree of protection: • Per IEC/EN: IP66, IP67 and IP69K

 - Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life:

- Double-touch: 1,000,000 cycles. _ _
- Selector switches: 1,000,000 cycles.

Mounting adapter See page 7-36.

Type: LPXAU120M.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.7Nm/6.1lb.in). Actuators latch onto the mounting adapter by simple rotation.

Contact elements

Type

See page 7-37 and 7-38.

Termination

Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately).

For DOUBLE-TOUCH types, up to 6 contacts can be fitted: 3 each on the left and right, one behind the other. For SELECTOR SWITCHES, up to 4 contacts can be fitted: 2 each on the left and right, one behind the other.

The LPXAU120M mounting adapter can also be fitted

internally to the cover of the LPZ... control station with up to 2 elements per actuator in addition to the LED element in the middle position.

1N0	LPXC10	Screw	
	LPXCF10	Faston	
	LPXCS10	Spring clamp	
1EM	LPXC10A	Screw	
1NC	LPXC01	Screw	
	LPXCF01	Faston	
	LPXCS01	Spring clamp	
1LB	LPXC01D	Screw	

Base mount types snap into LPZP... control station base. See example on page 7-38.

Up to 2 elements per actuator can also be fitted internally to the cover of the LPZ... control station in addition to the LED element in the middle position.

1NO	LPXCB10	Screw
1NC	LPXCB01	Screw

Selector switch type of positions

Maintained position.

V Spring return position.

Selector switch rotation angles

2 positions 3 positions



LED light elements See pages 7-39 to 42.

Certifications and compliance

Certifications: cULus. EAC. RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

Add-on blocks page 7-36 to 42

INDEX

ne



Pilot light heads



LPSL...

INDEX

	Order code	Colour	Qty per pkg	Wt
			n°	[kg]
	Without mount	ing adapter.		
	LPSL3	Green	5	0.029
	LPSL4	Red	5	0.029
	LPSL5	Yellow	5	0.029
V	LPSL6	Blue	5	0.029
	LPSL7	Transparent	5	0.029
	LPSL1187	Transparent 4 0	5	0.029

• With symbol indicating dangerous voltage (IEC/EN 60417 5036-a).

Operational characteristics

- Any mounting position allowed
 Ambient conditions:
- Operating temperature: -25...+70°C
 Storage temperature: -40...+85°C
 Degree of protection:
 Per IEC/EN: IP66, IP67 and IP69K
 Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mounting adapter See page 7-36. Type: LPXAU120M. The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.7Nm/6.1lb.in). Actuators latch onto the mounting adapter by simple rotation.

LED light elements See pages 7-39 to 42.

Certifications and compliance

Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.



ne

Order code

PLatinum series Ø22mm metal

Joysticks



LPS.I4. (without mechanical interlock)

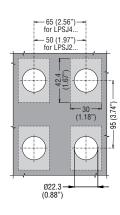


LPSJ2... (with mechanical interlock)

Accessories



LPXAU101



		positions	elements	per pkg	
			NO	n°	[kg]
	Without mechanic Label holder excl		plete with aux	ciliary c	ontact.
	LPSJ200	•	2	1	0.082
w	LPSJ201	•	2	1	0.082
	LPSJ400		4	1	0.104
	LPSJ401		4	1	0.104
With mechanical interlock in centre position. Complete with auxiliary contact. Label holder excluded					d.
	LPSJ210	•	2	1	0.082
	LPSJ211	•	2	1	0.082

Type of

N° auxiliary Qty Wt

2 new LPSJ410 0.104 4 1 ł i LPSJ411 4 1 0.104

Order code	Description	Qty per pkg	Wt		
		n°	[kg]		
LPXAU101	2-4 directional holder for adhesive legends ①	1	0.004		
• See page 7-48 for the complete list of available labels.					

Operational characteristics

- Any mounting position allowed LPSJ2... types can be used with LPZ... control stations _ Ambient conditions: _
- Operating temperature: -25...+70°C
 Storage temperature: -40...+85°C

- Degree of protection:
 Per IEC/EN: IP66
 Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K • IP20 for contact elements.

Materials

An aluminium and zinc alloy (zama) is used for the metal parts whereas plastic parts are made of polyamide and polycarbonate.

The sealing boot is made of NBR rubber.

Mechanical endurance

Mechanical life: 1,000,000 cycles.

General characteristics of contact elements

Wiping action and dual scraping-oscillating effect. IEC rated insulation voltage: 690V

IEC rated thermal current Ith: 10A UL/CSA and IEC/EN/BS 60947-5-1 designation: A300 Q300. IEC/EN operational characteristics in AC15 category:

					0 ,	
[V]	12	24	48	120	240	
[A]	6	6	6	6	3	
IEC/EN operational characteristics in DC13 category:						
[V]	12	24	48	125	250	
[A]	3	3	1.5	0.55	0.27	

Short circuit protection fuse, max calibre: 10A gG/SC. Contact resistance: $\leq 20m\Omega$.

Terminals: Clamp screw with washer

Maximum tightening torque: 1Nm/8.8lb.in.

Mounting adapter and contact elements

The joystick is standard supplied with the mounting adapter and contact elements.

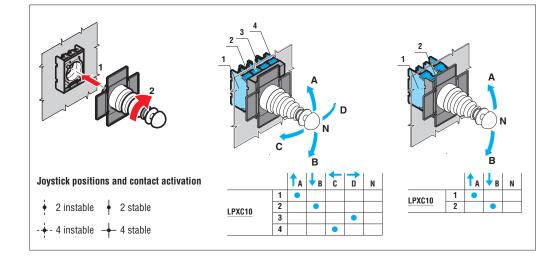
The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.7Nm/6.1lb.in). The joystick latches onto the mounting adapter by simple rotation.

Contact elements snap onto the mounting adapter. 2 LPXC... contacts are mounted on joystick LPSJ2... type and 4 LPXC... contacts on LPSJ4... type.

The mounting adapter and contact elements of LPSJ2... types can be internally mounted on LPZ... control stations covers.

Certifications and compliance

Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.





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ne

new

PLatinum series Ø30mm flat metal

Pushbutton actuators, spring return



INDEX



LPFB20...

Push-push button actuators



LPF010...



LPFQ20..

Order code	Colour	Qty per pkg	Wt			
		n°	[kg]			
Flush (without mounting adapter). Spring return.						
LPFB102	Black	5	0.060			
LPFB103	Green	5	0.060			
LPFB104	Red	5	0.060			
LPFB105	Yellow	5	0.060			
LPFB106	Blue	5	0.060			
LPFB108	White	5	0.060			
Extended (without mounting adapter). Spring return.						
LPFB202	Black	5	0.062			
LPFB203	Green	5	0.062			
LPFB204	Red	5	0.062			
LPFB205	Yellow	1	0.062			
LPFB206	Blue	1	0.062			
LPFB208	White	1	0.062			
	Flush (without m LPFB102 LPFB103 LPFB104 LPFB105 LPFB106 LPFB108 Extended (without LPFB202 LPFB203 LPFB204 LPFB205 LPFB206	Flush (without mounting adapter). Sprin LPFB102 Black LPFB103 Green LPFB104 Red LPFB105 Yellow LPFB106 Blue LPFB108 White Extended (without mounting adapter). S LPFB202 Black LPFB203 Green LPFB204 Red LPFB205 Yellow LPFB206 Blue	per pkg n° Flush (without mounting adapter). Spring return. LPFB102 Black 5 LPFB103 Green 5 LPFB104 Red 5 LPFB105 Yellow 5 LPFB106 Blue 5 LPFB108 White 5 LPFB202 Black 5 LPFB203 Green 5 LPFB204 Red 5 LPFB203 Green 5 LPFB204 Red 5 LPFB205 Yellow 1 LPFB205 Yellow 1			

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without Push on-push	mounting adapter). off.		
LPFQ1020	Black	5	0.060
LPFQ1030	Green	5	0.060
LPFQ1040	Red	5	0.060
LPFQ1050	Yellow	1	0.060
LPFQ106	Blue	1	0.060
LPFQ108	White	1	0.060
Extended (with Push on-push o	out mounting adapt	er).	
LPFQ202	Black	5	0.062
LPFQ2030	Green	5	0.062
LPFQ2040	Red	5	0.062
LPFQ2050	Yellow	1	0.062
LPFQ206	Blue	1	0.062

LPFQ2080 White 0.062 Use contact elements <u>LPXC10A</u> (EM) and <u>LPXC01</u> (NC) only. Contact elements LPXC10 (NO) and LPXC01D (LB) cannot be fitted on these

1

actuators. For the number of contacts that can be fitted, see the indication here to the side

Operational characteristics

- Any mounting position allowed Ambient conditions: _
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C Degree of protection: • Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

1 . . .

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life:

- Spring return actuators: 5,000,000 cycles
 Push-push actuators: 500,000 cycles.

Mounting adapter See page 7-36. Type: <u>LPXAU120M</u>.

The actuators fit into a Ø30mm/Ø1.18" hole. The fixing of the base to the mounting surface is made using the adapter supplied with the actuator and the screws incorporated in the base (Tmax = 0.7Nm/6.1lb.in).

Contact elements for spring return button actuators See page 7-37 and 7-38.

Туре Termination Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately).

Up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other.

1N0	LPXC10	Screw	Screw	
	LPXCF10	Faston		
	LPXCS10	Spring clamp		
1EM	LPXC10A	Screw		
1NC	LPXC01	Screw		
	LPXCF01	Faston		
	LPXCS01	Spring clamp		
1LB	LPXC01D	Screw		

Contact elements for push-push button actuators See page 7-37.

LPXC10A (1EM) Type:

LPXC01 (1NC)

Up to 6 contacts can be fitted: 2 each on the left, middle and right, one behind the other.

All actuators are standard supplied with action plug for middle contacts.

Certifications and compliance

Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.





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PLatinum series Ø30mm flat metal

Pushbutton actuators, spring return, with symbo



LPFB11...



Pushbutton actuators, spring return, with special symbols

LPFB21...

bl	Order code	Symbol	Colour	Qty per pkg	Wt			
				n°	[kg]			
	Flush (without mounting adapter). Spring return.							
	LPFB1102	0	Black	5	0.060			
	LPFB1104		Red	5	0.060			
	LPFB1113	Ι	Green	5	0.060			
	LPFB1118		White	5	0.060			
	LPFB1123	П	Green	1	0.060			
	LPFB1128		White	1	0.060			
	LPFB1132	STOP	Black	1	0.060			
	LPFB1134		Red	5	0.060			
	LPFB1142	- 0	Black	5	0.060			
	LPFB1148		White	5	0.060			
W	LPFB1152	10	Black	5	0.060			
	LPFB1158	6	White	5	0.060			
	LPFB1163	START	Green	5	0.060			
	LPFB1168		White	1	0.060			
	LPFB1176	R	Blue	1	0.060			
	LPFB1178		White	1	0.060			
	LPFB1196	RESET	Blue	5	0.060			
	LPFB1502		Black	5	0.060			
	LPFB1512	→ ←	Black	5	0.060			
	Extended (without	it mounting a	dapter). S	pring return.				
	LPFB2102	0	Black	5	0.062			
	LPFB2104		Red	5	0.062			
	LPFB2132	STOP	Black	1	0.062			
	LPFB2134		Red	5	0.062			
	A	فمعالمها حفاه معارجه	a state as las	r.				

O Arrow symbol can be used to indicate right or left. Arrow symbol can be used to indicate up or down.

	Order code Ø G	Symbol	Colour	Qty per pkg	Wt
				n°	[kg]
	Spring return (with	out mounting	adapter).		
	LPFB 0 @188	40	6	50	0.062
v	LPFB0@34®	MAN	0	50	0.062
•	LPFB 0 @35®	AUTO	6	50	0.062
	LPFB 0 @228	/	6	50	0.062
	LPFB 0 @23®		6	50	0.062
	Noto: for other symbols	000 0000 7 25			

Note: for other symbols see page 7-35.
Add letter "L" if illuminated type is required.
For the type of actuator, add: 1 for flush or 2 for extended.
Add the actuator colour: 2 black only for non-illuminated type;

3 green, 4 red, 5 yellow, 6 blue, 8 white or 7 transparent for illuminated version.

Products available on specific request for a minimum multiple quantity of 50 pieces per type.
Consult Technical support for assistance; see contact details or inside

front cover. Symbol indicating dangerous voltage (IEC 60417 5036-a).

Examples of complete order codes:

LPFB2258 - extended non-illuminated white pushbutton with + symbol LPFBL1685 – flush illuminated yellow pushbutton actuator with 2 symbol. **Operational characteristics**

- Any mounting position allowed Ambient conditions:
- _
- Operating temperature: -25...+70°C
 Storage temperature: -40...+85°C
 Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K • Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life: 5,000,000 cycles.

Mounting adapter

See page 7-36.

Type: LPXAU120M The actuators fit into a Ø30mm/Ø1.18" hole. The fixing of the base to the mounting surface is made using the adapter

supplied with the actuator and the screws incorporated in the base (Tmax = 0.7Nm/6.1lb.in).

Contact elements for spring return button actuators See page 7-37 and 7-38. Termination

Туре

Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately). Up to 9 contacts can be fitted: 3 each on the left, middle and

right, one behind the other.

1NO	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

All LPFB... actuators are standard supplied with action plug for middle contacts.

Certifications and compliance

Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

LPFB...

Add-on blocks

page 7-36 to 42



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PLatinum series Ø30mm flat metal

Selector switch actuators lever



LPFS1...

INDEX

Selector switch actuators long lever



LPFS2...

Selector switch actuators key (Ronis)



LPFS3...





	Order code	Type of positions	Qty per pkg	Wt
			n°	[kg]
	2 positions (withou	t mounting adapter).		
	LPFS120	\sim	5	0.062
	LPFS121	∇	5	0.062
77	3 positions (withou	t mounting adapter).		
<u> </u>	LPFS130	\checkmark	5	0.062
	LPFS131	$\langle \rangle$	5	0.062
	LPFS132	\triangleleft	5	0.062
	LPFS133	\sim	5	0.062

	Order code	Type of positions	Qty per pkg	Wt
			n°	[kg]
	2 positions (withou	t mounting adapter).		
	LPFS220	\sim	5	0.065
	LPFS221	∇	5	0.065
	3 positions (withou	t mounting adapter).		
N	LPFS230	\checkmark	5	0.065
	LPFS231	$\langle \rangle$	5	0.065
	LPFS232	$\langle \!$	5	0.065
	LPFS233	\checkmark	5	0.065

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (with	out mounting adapter).	
LPFS320	•	5	0.095
LPFS320RO		1	0.095
LPFS321	• •	5	0.095
LPFS321RO		1	0.095
LPFS340	•	5	0.095
LPFS340RO	\sim	1	0.095
3 positions (with	out mounting adapter).	
LPFS330	•	5	0.095
LPFS330RO	\checkmark	1	0.095
LPFS331	• • •	5	0.095
LPFS331RO	\neg \vee	1	0.095
LPFS332@	•	5	0.095
LPFS332RO@	\neg	1	0.095
LPFS333@	•	5	0.095
LPFS333RO@	\neg \vee	1	0.095
LPFS350	(†)	5	0.095
LPFS350RO	`↓∕	1	0.095
LPFS360		5	0.095
LPFS360RO		1	0.095
LPFS370@	(†)	5	0.095
LPFS370RO@		1	0.095
LPFS380@	<u> </u>	5	0.095
LPFS380R00		1	0.095
LPFS390@	•	5	0.095
LPFS390R0@		1	0.095

Versions with different key codes. Complete with the numeric code of the key. The following versions are available: 421E, 458A, 520E, 3131A, 3433E. Example of complete code: LPCS320R421E.

Ø Available only on specific request

Operational characteristics

- _
- Any mounting position allowed Standard key types supplied with Ronis key code n° 455
- _ Ambient conditions: Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C - Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Mechanical life: 1,000,000 cycles.

Mounting adapter See page 7-36.

Type: LPXAU120M.

The actuators fit into a Ø30mm/Ø1.18" hole. The fixing of the base to the mounting surface is made using the adapter supplied with the actuator and the screws incorporated in the base (Tmax = 0.7Nm/6.1lb.in).

Contact elements See page 7-37 and 7-38.

Туре Termination Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately). Up to 6 contacts can be fitted: 2 each on the left, middle and right or 3 each on the left and right, one behind the other.

3,		
1NO	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Activation of the middle contacts is coupled to the side contacts; the relative mechanism pins are standard supplied.



The middle contact activation, with respect to the right and left side contact, can be changed by the user, if required, by removing one mechanism pin. Consult the relative instructions available online in the Downloads section at www.LovatoElectric.com

Type of position

- Maintained position.
- \checkmark Spring return position.
- · Key extraction position.

Rotation angles 2 positions



Certifications and compliance Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

Dimensions page 7-64



Order code



PLatinum series Ø30mm flat metal

Selector switch actuators knob



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	-
new	-
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	L.
	3
new	Ī
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	I

2 positions (withou	t mounting adapter).		
LPFS420	\sim	5	0.072
LPFS421	$\langle \rangle$	5	0.072
3 positions (withou	t mounting adapter).		
LPFS430	\checkmark	5	0.072
LPFS431	$\overline{\langle}$	5	0.072
LPFS432		5	0.072
LPFS433	\checkmark	5	0.072

3-position selector switch

Type of

positions

Qty

'n

per pkg

Wt

[kg]

Contacts

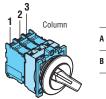
3

•

2 3

Contact activation

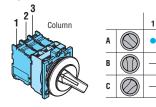
2-position selector switch



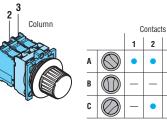


2-position knob selector switch

2	Colun	n			. 0	ontact	2
	\gg	6			1	2	
Y	0		A	\bigcirc	_	_	
J		\mathbf{n}	В	\oslash	•	•	
۲		$\mathbf{\nabla}$					



3-position knob selector switch



Operational characteristics

- Any mounting position allowed Ambient conditions:
- _
- Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection: • Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-36.

Type: LPXAU120M. The actuators fit into a Ø30mm/Ø1.18" hole. The fixing of the base to the mounting surface is made using the adapter supplied with the actuator and the screws incorporated in the base (Tmax = 0.7Nm/6.1lb.in).

Contact elements

See page 7-37 and 7-38.

Termination Туре

Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately). Up to 6 contacts can be fitted: 2 each on the left, middle and

right or 3 each on the left and right, one behind the other.

1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Activation of the middle contacts is coupled to the side contacts; the relative mechanism pins are standard supplied.



The middle contact activation, with respect to the right and left side contact, can be changed by the user, if required, by removing one mechanism pin. Consult the relative instructions available online in the Downloads section at www.LovatoElectric.com.

Type of position

Maintained position.

51 Spring return position.

Rotation angles

2 positions



Certifications and compliance Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

Add-on blocks page 7-36 to 42



PLatinum series Ø30mm flat metal

Illuminated button actuators, spring return



LPFBL10...

INDEX



LPFBL20...

Illuminated push-push **button actuators**

nev



LPFQL10...



LPFQL20...

	Order code	Colour	Qty per pkg	Wt
			n°	[kg]
	Flush (without me	ounting adapter). Spring	g return.	
	LPFBL103	Green	5	0.070
	LPFBL104	Red	5	0.070
	LPFBL105	Yellow	5	0.070
	LPFBL106	Blue	5	0.070
	LPFBL107	Transparent	5	0.070
V	Extended (withou	t mounting adapter). S	oring return	
	LPFBL203	Green	5	0.072
	LPFBL204	Red	5	0.072
	LPFBL205	Yellow	5	0.072
	LPFBL206	Blue	5	0.072
	LPFBL207	Transparent	5	0.072

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without mounting adapter). Push on-push off.			
LPFQL1030	Green	5	0.070
LPFQL1040	Red	5	0.070
LPFQL1050	Yellow	5	0.070
LPFQL1060	Blue	5	0.070
LPFQL1070	Transparent	5	0.070
Extended (withou Push on-push off	t mounting adapter).		
LPFQL2030	Green	5	0.072
LPFQL2040	Red	5	0.072
LPFQL2050	Yellow	5	0.072
LPFQL206	Blue	5	0.072
LPFQL207	Transparent	5	0.072

 Use contact elements LPXC10A (EM) and LPXC01 (NC) only. Contact elements LPXC10 (NO) and LPXC01D (LB) cannot be fitted on these actuators.

Operational characteristics

- Any mounting position allowed Ambient conditions: _
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C Degree of protection: • Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life:

- Spring return actuators: 5,000,000 cycles
- Push-push actuators: 500,000 cycles.

Mounting adapter See page 7-36. Type: <u>LPXAU120M</u>.

The actuators fit into a Ø30mm/Ø1.18" hole. The fixing of the base to the mounting surface is made using the adapter supplied with the actuator and the screws incorporated in the base (Tmax = 0.7Nm/6.1lb.in).

Contact elements for illuminated spring return actuators See page 7-37 and 7-38.

Туре	Termination
Front-mount types snap onto LPX	AU120M mounting adapter
(to purchase separately).	

Up to 6 contacts can be fitted: 3 each on the left and right, one behind the other.

1N0	LPXC10	Screw	
	LPXCF10	Faston	
	LPXCS10	Spring clamp	
1EM	LPXC10A	Screw	
1NC	LPXC01	Screw	
	LPXCF01	Faston	
	LPXCS01	Spring clamp	
1LB	LPXC01D	Screw	

Contact elements for illuminated push-push button actuators See page 7-37. Type: LPXC10A (1EM)

LPXC01 (1NC) Up to 4 contacts can be fitted: 2 each on the left and right, one behind the other.

LED light elements

See pages 7-39 to 42.

Certifications and compliance

Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.



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Pushbuttons and selector switches PLatinum series Ø30mm flat metal

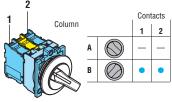
Illuminated selector switch actuators



LPFSL1...

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Contact activation of 2-position selector switch



Contact activation of 3-position selector switch

2 1 all all all all all all all all all a			Cont	acts
Column			1	2
	A	\bigcirc	•	_
	В		—	—
	C	\bigcirc	_	•

Order code	Colour	Type of positions	Qty per pkg	Wt
			n°	[kg]
2 positions (wit	hout mounting a	dapter).		
LPFSL1203	Green		5	0.060
LPFSL1204	Red		5	0.060
LPFSL1205	Yellow		5	0.060
LPFSL1206	Blue		5	0.060
LPFSL1208	White		5	0.060
LPFSL1213	Green		5	0.060
LPFSL1214	Red		1	0.060
LPFSL1215	Yellow		1	0.060
LPFSL1216	Blue		1	0.060
LPFSL1218	White		5	0.060
3 positions (wit	hout mounting a	dapter).		
LPFSL1303	Green		5	0.060
LPFSL1304	Red	$ $ \vee $ $	5	0.060
LPFSL1305	Yellow		5	0.060
LPFSL1306	Blue		5	0.060
LPFSL1308	White		5	0.060
LPFSL1313	Green		5	0.060
LPFSL1314	Red	\mathbb{N}^{\times}	1	0.060
LPFSL1315	Yellow		1	0.060
LPFSL1316	Blue		1	0.060
LPFSL1318	White		5	0.060
LPFSL1323	Green		5	0.060
LPFSL1324	Red	<u>`</u> ↓∕	1	0.060
LPFSL1325	Yellow		1	0.060
LPFSL1326	Blue		1	0.060
LPFSL1328	White		5	0.060
LPFSL1333	Green		5	0.060
LPFSL1334	Red	N.º	1	0.060
LPFSL1335	Yellow		1	0.060
LPFSL1336	Blue		1	0.060
LPFSL1338	White		5	0.060

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Operational characteristics

- Any mounting position allowed Ambient conditions: _
- Operating temperature: -25...+70°C Storage temperature: -40...+85°C Degree of protection: • Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life:

Selector switches: 1,000,000 cycles.

Mounting adapter

See page 7-36.

Type: LPXAU120M.

The actuators fit into a Ø30mm/Ø1.18" hole. The fixing of the base to the mounting surface is made using the adapter supplied with the actuator and the screws incorporated in the base (Tmax = 0.7Nm/6.1lb.in).

Contact elements

See page 7-37 and 7-38.

Туре Termination Front-mount types snap onto LPXAU120M mounting adapter (to purchase separately).

Up to 4 contacts can be fitted: 2 each on the left and right, one behind the other.

1N0	LPXC10	Screw	
	LPXCF10	Faston	
	LPXCS10	Spring clamp	
1EM	LPXC10A	Screw	
1NC	LPXC01	Screw	
	LPXCF01	Faston	
	LPXCS01	Spring clamp	
1LB	LPXC01D	Screw	

Selector switch type of positions

Maintained position.

Spring return position.

Selector switch rotation angles

2 positions 3 positions



LED light elements See pages 7-39 to 42.

Certifications and compliance

Certifications: cULus, EAC, RINA Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.



Pilot light heads



LPFL...

INDEX

V		
L		
L		
L		
L	new	
L		

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Without mounting adapter.			
LPFL3	Green	5	0.054
LPFL4	Red	5	0.054
LPFL5	Yellow	5	0.054
LPFL6	Blue	5	0.054
LPFL7	Transparent	5	0.054
LPFL1187	Transparent 4 🛛	5	0.054

• With symbol indicating dangerous voltage (IEC/EN/BS 60417 5036-a).

Operational characteristics

- Any mounting position allowed Ambient conditions: _
- Ambient conditions: Operating temperature: -25...+70°C Storage temperature: -40...+85°C Degree of protection: Per IEC/EN: IP66, IP67 and IP69K Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Mounting adapter See page 7-36. Type: LPXAU120M. The actuators fit into a Ø30mm/Ø1.18" hole. The fixing of the base to the mounting surface is made using the adapter supplied with the actuator and the screws incorporated in the base (Tmax = 0.7Nm/6.1lb.in).

LED light elements See pages 7-39 to 42.

Certifications and compliance

Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

ne\

PLatinum series Ø30mm flat metal

USB and RJ45 communication interfaces



LPFD01

INDEX



LPFD01L...



LPFD06

	Order code	Description	Qty per pkg	Wt
			n°	[kg]
	LPFD01	USB interface, A/A female type connection	1	0.053
	LPFD01L050	USB interface, A/A female connection with 0.5m long cable	1	0.095
	LPFD01L100	USB interface, A/A female connection with 1m long cable	1	0.115
	LPFD03	USB interface, A/B female type connection	1	0.053
	LPFD05	USB interface, B/A female type connection	1	0.053
	LPFD06	RJ45 interface,, Ethernet connection type	1	0.061
	LPFD06L100	RJ45 interface, Ethernet connection with 1m long cable	1	0.125

General characteristics

USB and RJ45 communication interface connectors are used in industrial environments, which in recent years have seen an increase in the number of connections between machines, production lines, equipment and measuring instruments. These interfaces provide the transmission of data in both directions between the various devices.

Operational characteristics

- Rated insulation voltage for LPFD01, LPFD03, LPFD05: 5VAC/DC
- _
- Rated insulation voltage for LPFD06: 50VAC/DC Installed through a Ø30mm/Ø1.18" drilling with a threaded fixing ring (Tmax = 0.8Nm/7lb.in) _
- Transmission characteristics for LPFD01, LPFD03, LPFD05: 5Gbps (625MB/sec) Transmission characteristics for LPFD06: Cat.6 Rated current for LPFD01, LPFD03, LPFD05: 1.5A Rated current for LPFD01, CPFD03, LPFD05: 1.5A Rated current for LPFD06: 0.6A
- _
- _
- Insulation resistance: ≥100M0hm _
- _ Contact resistance for LPFD01, LPFD03, LPFD05: ≤30m0hm
- Contact resistance for LPFD06: ≤40m0hm
- USB connector class: 3.0 (backward compatible with USB _ class 2.0) _
- Ambient conditions:
- Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection:
 Per IEC/EN: IP65 on front (with cap mounted)
 Per IEC/EN: IP20 at rear
 Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K on front (with cap

 - mounted).

Materials

An aluminium and zinc alloy (zama) is used for the metal part whereas plastic parts are made of polyamide.

Certifications and compliance

Certifications: cULus, EAC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.





PLatinum series Ø22mm chromed plastic

Pushbutton actuators, spring return





LPCB20..



LPCB30...

Push-push button actuators





Order code	Colour	Qty per pkg	Wt		
		n°	[kg]		
Flush (without m	Flush (without mounting adapter). Spring return.				
LPCB102	Black	10	0.025		
LPCB103	Green	10	0.025		
LPCB104	Red	10	0.025		
LPCB105	Yellow	10	0.025		
LPCB106	Blue	10	0.025		
LPCB108	White	10	0.025		
Extended (without	t mounting adapter). S	pring return.			
LPCB202	Black	10	0.027		
LPCB203	Green	10	0.027		
LPCB204	Red	10	0.027		
LPCB205	Yellow	1	0.027		
LPCB206	Blue	1	0.027		
LPCB208	White	1	0.027		
Shrouded (witho	ut mounting adapter). S	pring return			
LPCB302	Black	10	0.027		
LPCB303	Green	10	0.027		
LPCB304	Red	10	0.027		
LPCB305	Yellow	1	0.027		
LPCB306	Blue	1	0.027		
LPCB308	White	1	0.027		

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without m Push on-push of	ounting adapter). f.		
LPCQ1020	Black	10	0.025
LPCQ1030	Green	10	0.025
LPCQ1040	Red	10	0.025
LPCQ105	Yellow	1	0.025
LPCQ1060	Blue	1	0.025
LPCQ1080	White	1	0.025
Extended (without Push on-push of	ut mounting adapter). f.		
LPCQ2020	Black	10	0.027
LPCQ203	Green	10	0.027
LPCQ2040	Red	10	0.027
LPCQ205	Yellow	1	0.027
LPCQ206	Blue	1	0.027
LPCQ208	White	1	0.027

 Use contact elements LPXC10A (EM) and LPXC01 (NC) only. Contact elements LPXC10 (NO) and LPXC01D (LB) cannot be fitted on these actuators.

For the number of contacts that can be fitted, see the indication here to the side

Operational characteristics

- Any mounting position allowed Ambient conditions: _
- Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection: Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life:

- Spring return actuators: 5,000,000 cycles
- Push-push actuators: 500,000 cycles.

Mounting adapter

See page 7-36. Type: LPXAU120.

Actuators are installed through a \emptyset 22mm/ \emptyset 0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ... control stations. The mounting adapter directly snaps onto the actuator.

Contact elements for spring return button actuators See page 7-37 and 7-38.

Туре	Termination
Front-mount types snap onto LPX (to purchase separately).	AU120 mounting adapter

Up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other.

The LPXAU120 mounting adapter can also be fitted internally to the cover of the LPZ... control station with up to 3 elements per actuator.

1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw
Rase mou	nt types snan into I	P7P control station hase

nt type to See example on page 7-38.

Up to 3 contacts can be fitted per LPZ... control station actuator.

1N0 LPXCB10 Screw 1NC LPXCB01 Screw

Contact elements for push-push button actuators See page 7-37.

LPXC10A (1EM) Type:

LPXC01 (1NC)

Contacts snap onto the adapter also internally on the cover surface of LPZ... control stations.

Up to 6 contacts can be fitted: 2 each on the left, middle and right, one behind of the other; up to 3 elements per control station actuator.

All these actuators are standard supplied with action plug for middle contacts.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14



7 INDEX

Pushbuttons and selector switches

PLatinum series Ø22mm chromed plastic

Mechanical rest buttons, complete unit, spring return



Pushbutton actuators,

spring return, with symbol





Pushbutton actuators, spring return, with special symbols



LPCB...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (5.2mm/0.2" stroke). Adjustable length 0-150mm/5.9". Complete with shaft (without mounting adapter). Spring return			
LPCR1002	Black	10	0.038
LPCR1003	Green	10	0.038
LPCR1004	Red	10	0.038
LPCR1006	Blue	10	0.038
LPCR11960	Blue (RESET)	10	0.038
Extended (5.2mm/0.2" stroke) Adjustable length 0-150mm/5.9"			

Extended (5.2mm/0.2" stroke). Adjustable length 0-150mm/5.9". Complete with shaft (without mounting adapter). Spring return. LPCR2004 0.040 Red 1

With "BESET" caption on actuator

E.g. Not suitable for LPZ... control stations.

Order code	Symbol	Colour	Qty per pkg	Wt
			n°	[kg]
Flush (without	mounting ada	pter). Sprir	ıg return.	
LPCB1102	0	Black	10	0.025
LPCB1104		Red	10	0.025
LPCB1113	I	Green	10	0.025
LPCB1118		White	10	0.025
LPCB1123	II	Green	1	0.025
LPCB1128		White	1	0.025
LPCB1132	STOP	Black	1	0.025
LPCB1134		Red	10	0.025
LPCB1142	0	Black	10	0.025
LPCB1148		White	10	0.025
LPCB1152	10	Black	10	0.025
LPCB1158	6	White	10	0.025
LPCB1163	START	Green	10	0.025
LPCB1168		White	1	0.025
LPCB1176	R	Blue	1	0.025
LPCB1178		White	1	0.025
LPCB1196	RESET	Blue	10	0.025
LPCB1502		Black	10	0.025
LPCB1512	→ ←	Black	10	0.025
Extended (without mounting adapter). Spring return.				
LPCB2102	0	Black	10	0.027
LPCB2104		Red	10	0.027
LPCB2132	STOP	Black	1	0.027
LPCB2134		Red	10	0.027

Arrow symbol can be used to indicate right or left.

Arrow symbol can be used to indicate up or down.

Order code Ø G	Symbol	Colour	Qty per pkg	Wt	
			n°	[kg]	
Spring return (with	Spring return (without mounting adapter).				
LPCBO@180	40	0	50	0.027	
LPCBO@340	MAN	6	50	0.027	
LPCB0@35@	AUTO	0	50	0.027	
LPCB0@22@	/	0	50	0.027	
LPCBO@230		0	50	0.027	
Note: for other symbols see page 7- 35.					

Add letter "L" if illuminated type is required.
For the type of actuator, add: 1 for flush or 2 for extended.

Add the actuator colour: 2 black only for non-illuminated type; 3 green, 4 red, 5 yellow, 6 blue, 8 white or 7 transparent for illuminated version.

 Products available on specific request for a minimum multiple quantity of 50 pieces per type. Consult Technical support for assistance; see contact details or inside

front cover.

 Symbol indicating dangerous voltage (IEC 60417 5036-a). Examples of complete order codes:

LPCB2258 - extended non-illuminated white pushbutton with + symbol LPCBL1685 – flush illuminated yellow pushbutton actuator with 21 symbol.

Operational characteristics

- Any mounting position allowed Fine rod adjustment (1-4mm/0.04-0.16") on front with _
- screwdriver by removing actuator cap for mechanical reset buttons
- Ambient conditions:
- Operating temperature: -25...+70°C • Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials Polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life: 5,000,000 cycles.

Mounting adapter

See page 7-36

Type: LPXAU120. Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ... control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements for mechanical reset buttons See page 7-37 and 7-38.

Type

Termination Front mount types snap onto LPXAU120 mounting adapter (to purchase separately), if any contacts are needed. Up to 6 contacts can be fitted: 3 each on the left and right, one behind the other

1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Contact elements for spring return button actuators

See page 7-37 and 7-38.

Termination Type

Front-mount types snap onto LPXAU120 mounting adapter (to purchase separately).

Up to 9 contacts can be fitted: 3 each on the left, middle and right; one behind the other.

The LPXAU120 mounting adapter can also be fitted internally to the cover of the LPZ... control station with up to 3 elements per actuator.

1N0	LPXC10	Screw		
	LPXCF10	Faston		
	LPXCS10	Spring clamp		
1EM	LPXC10A	Screw		
1NC	LPXC01	Screw		
	LPXCF01	Faston		
	LPXCS01	Spring clamp		
1LB	LPXC01D	Screw		

Base mount types snap into LPZP... control station base. See example on page 7-38.

Up to 3 contacts can be fitted per LPZ... control station actuator

aoraaron			
1NO	LPXCB10	Screw	
1NC	LPXCB01	Screw	

The LPCB... actuators are standard supplied with action plug for middle contacts.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.





PLatinum series Ø22mm chromed plastic

Mushroom head pushbutton actuators







LPCB6344



LPCB6634



LPCB6644



Normal operation of auto-monitor contact mounted on surface or on cover of control stations

Θ

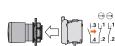
.3 .1 .4 .2

.4 .2

change state.









 $\Theta \Theta$ When the button is fully pressed. both contacts .1-.2 open and remain in this state until the button .2 .2 is released. Contact .3-.4 in series does not change state.

Order code	Colour	Qty per pkg	Wt	
		n°	[kg]	
SPRING RETURN. Ø40mm/1.57" (without mounting adapter).				
LPCB6142	Black	10	0.033	
LPCB6143	Green	10	0.033	
LPCB6144	Red	10	0.033	
LPCB6145	Yellow	10	0.033	
LPCB6146	Blue	10	0.033	
Ø60mm/2.36" (witho	ut mounting a	dapter).		
LPCB6162	Black	10	0.038	
LPCB6163	Green	1	0.038	
LPCB6164	Red	10	0.038	
LPCB6165	Yellow	1	0.038	
LPCB6166	Blue	1	0.038	
LATCH, PULL TO REI Ø40mm/1.57" (witho For normal stopping.		dapter).		
LPCB6742	Black	10	0.097	
For emergency stopp	ing, ISO 13850) compliant.		
LPCB6744	Red	10	0.097	
LATCH, TURN TO RE Ø40mm/1.57" (witho For normal stopping.		dapter).		
LPCB6342	Black	10	0.046	
LPCB6344	Red	10	0.046	
Ø30mm/1.18" (witho For emergency stopp	ut mounting ac ing, ISO 1385(dapter). D compliant.		
LPCB6634	Red	10	0.079	
Ø40mm/1.57" (without mounting adapter). For emergency stopping, ISO 13850 compliant.				
LPCB6644	Red	10	0.079	
LATCH, TURN KEY TO RELEASE. Ø40mm/1.57" (without mounting adapter). Key code n° 455. For normal stopping.				
LPCB6842	Black	10	0.083	
LPCB6842RO	Black	1	0.083	
For emergency stopp	ing, ISO 13850) compliant.		
LPCB6844	Red	10	0.083	
LPCB6844R0	Red	1	0.083	
A Varaiana with different la				

Versions with different key codes.

Complete with the numeric code of the key. The following versions are available: 421E, 458A, 520E, 3131A, 3433E. Example of complete code: LPCB6844R421E.

In case of detachment of only the contact element and/or of the mounting adapter with contact element

With contact type LPXC01SM (1NC)

Contact .3-.4 closes when the LPXAU120 mounting adapter and LPX...SM contact are fitted correctly on the mushroom-head latch actuator. Contact .1-.2 in series does not change state. If the contact LPXC01SM detaches from the actuato due to strong vibrations or shock, the equipment can be restored to operating state only when proper mounting of the contact with the actuator is re-established resulting in contact .3-.4 closing. oppur When the button is **fully pressed**, **contact. 1-.2 opens** and remains in this state until the button is released. **Contact. 3-.4 in series does not** channe state. .4 .2 With contact type LPXC02SM (2NC) Contact .3-.4 closes when the If the contact LPXC02SM detaches from the actuator 1.3 + 1, 1 - 1 PAU120 mounting adapter and LPAU120 mounting adapter and LPX...SM contact are fitted correctly on the mushroom-head latch actuator. Both contacts. 1-2 in series do not change state. due to strong vibrations or shock, the equipment can be restored to operating state only when proper mounting of the contact with the actuator is re-established resulting in **contact** .3-.4 closing. oppure $\Theta \in$

Operational characteristics

- Any mounting position allowed
- Ambient conditions: Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K • Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials Polyamide.

Mechanical endurance

Operating force: <0.5kg1.1lb (actuator).

- Mechanical life:
- Spring return mushroom-head actuators: 5,000,000 cycles
- Latch mushroom-head actuators: 300,000 cycles.

Mounting adapter

See page 7-36. Type: LPXAU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ ... control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-37 and 7-38. 1-

Туре	Termination
Front-mount types snap onto	LPXAU120 mounting adapter
(to purchase separately).	
For SPRING RETURN types 1	in to 0 contacts can be fitted: 3

For SPRING RETURN types, up to 9 contacts can be fitte each on the left, middle and right, one behind the other. For LATCH types, up to 4 contacts can be fitted.

The LPXAU120 mounting adapter can also be fitted internally to the cover of the LPZ... control station with up to 3 elements per actuator

1NO	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Base mount types snap into LPZP... control station base.

See example on page 7-38.

Up to 3 contacts can be fitted per LPZ... control station

actuator.		
1N0	LPXCB10	Screw
1NC	LPXCB01	Screw

AUTO-MONITOR CONTACT with MUSHROOM-HEAD LATCH TYPES only: 2 elements max of this type can be mounted. Extra two contacts can be fitted on the right.

Two elements per actuator can be fixed internally on the cover surface of LPZ... control stations of which one auto-monitor type. No LED element can be installed

JI		
Auto-monitor 1NO	LPXC01SM	Screw (2 stacked in the middle - LPXAU120 pos.1/3-4/6)
1NO	LPXC10	Screw (2 stacked on the right)
	LPXCF10	Faston (2 stacked on the right)
	LPXCS10	Spring clamp (2 stacked on the right)
1NC	LPXC01	Screw (2 stacked on the right)
	LPXCF01	Faston (2 stacked on the right)
	LPXCS01	Spring clamp (2 stacked on the right)
Auto-monitor 2NC	LPXC02SM	Screw (2 stacked)

All these actuators are standard-supplied with action plug for middle contacts

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

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Add-on blocks page 7-36 to 42

page 7-46 to 51

Accessories and spare parts

4/2/2

Dimensions page 7-64





7

PLatinum series Ø22mm chromed plastic

Double-touch actuators, spring return



LPCB71.



Triple-touch actuators, spring return



LPCB73...

0	rder code	Colour	Symbols	Qty per pkg	Wt
				n°	[kg]
	wo flush pushbu oth spring retur		mounting	adapter).	
L	PCB7112	Black/Red		5	0.030
L	PCB7113	Green/Red		5	0.030
L	PCB7114	White/Black		5	0.030
L	PCB7122	Black/Red	I-0	5	0.030
L	PCB7123	Green/Red	I-0	5	0.030
L	PCB7124	White/Black	I-0	5	0.030
L	PCB7133	Green/Red	Start/Stop	5	0.030
V	PCB7191	Black/Black	↑ ↓	5	0.030
	ne extended and dapter). Both spi		ibuttons (w	vithout mou	inting

adapter). Doth spring return.				
LPCB7212	Black/Red		1	0.030
LPCB7213	Green/Red		5	0.030
LPCB7214	White/Black		1	0.030
LPCB7222	Black/Red	I-0	5	0.030
LPCB7223	Green/Red	I-0	5	0.030
LPCB7224	White/Black	I-0	1	0.030
LPCB7233	Green/Red	Start/Stop	5	0.030

Order code	Symbols	Qty per pkg	Wt	
		n°	[kg]	

One middle extended buttons

LPCB7345		5	0.030
	STOP		
	11		
LPCB7355	1	5	0.030
	STOP		
	Ļ		
LPCB7365		5	0.030
	STOP		
	←		
LPCB7375	X	5	0.030
	STOP		
	K		

Operational characteristics

- Any mounting position allowed Ambient conditions:
- _
- Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection:
 Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-36. Type: LPXAU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ... control stations. The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-37 and 7-38.

Туре

Termination Front-mount types snap onto LPXAU120 mounting adapter (to purchase separately).

For DOUBLE-TOUCH actuators, up to 6 contacts can be fitted: 3 on the left, 3 on the right.

For TRIPLE-TOUCH actuators, up to 9 contacts can be fitted: 3 each on the left, middle and right, one behind the other. The LPXAU120 mounting adapter can also be fitted internally to the cover of the LPZ ... control station with up to 2 elements for double-touch and 3 elements for triple-touch actuators.

1NO	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Base mount types snap into LPZP... control station base. See example on page 7-38.

For DOUBLE-TOUCH actuators, 2 contacts need to be fitted, one on the left and one on the right.

For TRIPLE-TOUCH actuators, 3 contacts need to be fitted: one each on the left, middle and right.

1N0	LPXCB10	Screw
1NC	LPXCB01	Screw

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

PLatinum series Ø22mm chromed plastic

Selector switch actuators lever



LPCS1.

INDEX

Selec	ctor switch	actuators
long	lever	



Selector switch actuators key (Ronis)



Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (withou	it mounting adapter).		
LPCS120	\sim	10	0.037
LPCS121	∇	10	0.037
3 positions (withou	it mounting adapter).		
LPCS130	\checkmark	10	0.037
LPCS131	$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	10	0.037
LPCS132	$\langle \!$	10	0.037
LPCS133	\checkmark	10	0.037

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (withou	t mounting adapter).		
LPCS220	\sim	10	0.040
LPCS221	∇	10	0.040
3 positions (withou	t mounting adapter).		
LPCS230	\checkmark	10	0.040
LPCS231	$\langle \! \! \! \! \rangle$	10	0.040
LPCS232	$\langle \downarrow \rangle$	10	0.040
LPCS233	\checkmark	10	0.040

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (witho	out mounting adapter).		
LPCS320	•	10	0.060
LPCS320RO		1	0.060
LPCS321	• •	10	0.060
LPCS321RO	\sim	1	0.060
LPCS340	•	10	0.060
LPCS340RO	\sim	1	0.060
3 positions (witho	ut mounting adapter).		
LPCS330		10	0.060
LPCS330RO	\vee	1	0.060
LPCS331	•••	10	0.060
LPCS331RO	\vee	1	0.060
LPCS332@	•	10	0.060
LPCS332RO@	\bigvee	1	0.060
LPCS333@	•	10	0.060
LPCS333RO@	\bigvee	1	0.060
LPCS350		10	0.060
LPCS350RO	`\/	1	0.060
LPCS360	-	10	0.060
LPCS360RO	V.	1	0.060
LPCS370@	(†)	10	0.060
LPCS370RO@	`\J-'	1	0.060
LPCS380@	<u> </u>	10	0.060
LPCS380R00		1	0.060
LPCS390@	•>	10	0.060
LPCS390RO@	V.'	1	0.060

Versions with different key codes. Complete with the numeric code of the key. The following versions are available: 421E, 458A, 520E, 3131A, 3433E. Example of complete code: LPC S320 R421E.

Ø Available only on specific request

Operational characteristics

- Any mounting position allowed Standard key types supplied with Ronis key code n° 455
- _ Ambient conditions: Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
 Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.
- Materials

Polyamide.

Mechanical endurance

Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-36. Type: LPXAU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ... control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See	page	7-37	and	7-38.	
-					

Туре Termination Front-mount types snap onto LPXAU120 mounting adapter (to purchase separately). Up to 6 contacts can be fitted: 2 each on the left, middle and right or 3 each on the left and right, one behind the other.

The LPXAU120 mounting adapter can also be fitted internally to the cover of the LPZ... control station with up to 3 elements per actuator

1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Base mount types snap into LPZP... control station base. See example on page 7-38.

Up to 3 contacts can be fitted per LPZ... control station actuator.

1N0	LPXCB10	Screw	
1NC	LPXCB01	Screw	

Activation of the middle contacts is coupled to the side contacts; the relative mechanism pins are standard supplied.



The middle contact activation, with respect to the right and left side contact, can be changed by the user, if required, by removing one or both mechanism pins. Consult the relative instructions available online in the Downloads section at www.LovatoElectric.com

Type of position

- Maintained position.
- S. Spring return position.
- . Key extraction position.

Rotation angles

2 positions



Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14

Accessories and spare parts page 7-46 to 51







PLatinum series Ø22mm chromed plastic

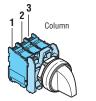
Selector switch actuators knob

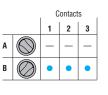


Type of positions	Qty per pkg	Wt
	n°	[kg]
it mounting adapter).		
\sim	10	0.037
\sim	10	0.037
it mounting adapter).		
\checkmark	10	0.037
	10	0.037
$\langle \vee \rangle$	10	0.037
\checkmark	10	0.037
	ut mounting adapter).	positions per pkg n° It mounting adapter). 10 10 10 10 10 10 10 10 10 10

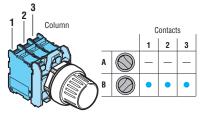
Contact activation

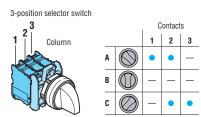
2-position selector switch



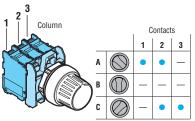


2-position knob selector switch





3-position knob selector switch



Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K • Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials Polyamide.

Mechanical endurance Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-36. Type: LPXAU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ... control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-37 and 7-38.

Туре

Termination Front-mount types snap onto LPXAU120 mounting adapter (to purchase separately). Up to 6 contacts can be fitted: 2 each on the left, middle and right or 3 each on the left and

right, one behind the other. The LPXAU120 mounting adapter can also be fitted internally

to the cover of the LPZ... control station with up to 3 elements per actuator.

1N0	LPXC10	Screw	
	LPXCF10	Faston	
	LPXCS10	Spring clamp	
1EM	LPXC10A	Screw	
1NC	LPXC01	Screw	
	LPXCF01	Faston	
	LPXCS01	Spring clamp	
1LB	LPXC01D	Screw	

Base mount types snap into LPZP... control station base. See example on page 7-38.

Up to 3 contacts can be fitted per LPZ... control station

actuator.			
1N0	LPXCB10	Screw	
1NC	LPXCB01	Screw	

Activation of the middle contacts is coupled to the side contacts; the relative mechanism pins are standard supplied.



The middle contact activation, with respect to the right and left side contact, can be changed by the user, if required, by removing one or both mechanism pins. Consult the relative instructions available online in the Downloads section at www.LovatoElectric.com.

Type of position

Maintained position.

5 Spring return position.

Rotation angles 2 positions



Certifications and compliance

Certifications: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

Add-on blocks page 7-36 to 42 Dimensions page 7-65





PLatinum series Ø22mm chromed plastic

Illuminated button actuators, spring return



LPCBL10...



LPCBL20...

Illuminated push-push button actuators



LPCQL10...



LPCQL20..

Illuminated mushroom head button actuators



LPCBI 614....



Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without	mounting adapter). S	pring return.	
LPCBL103	Green	10	0.025
LPCBL104	Red	10	0.025
LPCBL105	Yellow	10	0.025
LPCBL106	Blue	10	0.025
LPCBL107	Transparent	10	0.025
Extended (with	out mounting adapter). Spring retu	rn.
LPCBL203	Green	10	0.027
LPCBL204	Red	10	0.027
LPCBL205	Yellow	10	0.027
LPCBL206	Blue	10	0.027
LPCBL207	Transparent	10	0.027

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

Flush (without mounting adapter). Push on-push off

LPCQL1030	Green	10	0.025	
LPCQL1040	Red	10	0.025	
LPCQL1050	Yellow	10	0.025	
LPCQL106	Blue	10	0.025	
LPCQL107	Transparent	10	0.025	
Extended (without mounting adapter).				

Push on-push off.				
LPCQL2030	Green	10	0.027	
LPCQL2040	Red	10	0.027	
LPCQL2050	Yellow	10	0.027	
LPCQL2060	Blue	10	0.027	
LPCQL2070	Transparent	10	0.027	

Use contact elements LPXC10A (EM) and LPXC01 (NC) only. Contact elements LPXC10 (NO) and LPXC01D (LB) cannot be fitted on these actuators

Order code	Colour	Qty per pkg	Wt
		n°	[kg]

SPRING RETURN.

Ø40mm/1.6" (without mounting adapter).				
LPCBL6143	Green	10	0.035	
LPCBL6144	Red	10	0.035	
LPCBL6145	Yellow	10	0.035	
LPCBL6146	Blue	10	0.035	
LPCBL6148	White	1	0.035	

LATCH, TURN TO RELEASE.

Ø40mm/1.6" (without mounting adapter). For normal stopping.

LPCBL6643	Green	1	0.040	
LPCBL6645	Yellow	1	0.040	
LPCBL6646	Blue	1	0.040	
For emergency stopping, ISO 13850 compliant.				
LPCBL6644	Red	10	0.040	
	•			

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K • Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator).

- Mechanical life: Spring return actuators: 5,000,000 cycles
- Push-push actuators: 500,000 cycles
- Spring return mushroom-head actuators: 5,000,000 cycles
- Latch mushroom-head actuators: 300,000 cycles.

Mounting adapter

See page 7-36

Type: LPXAU120

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ... control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements for illuminated spring return and mushroom-head latch actuators

See page 7-37 and 7-38.

Туре Termination Front-mount types snap onto LPXAU120 mounting adapter (to purchase separately) For TYPES LPCBL1/BL2/BL61... up to 6 contacts can be For TYPES LPCBL66... up to 4 contacts can be fitted: 2 each on the left and right, one behind the other. The LPXAU120 mounting adapter can also be fitted internally to the cover of the LPZ... control station with up to 2

elements per actuator in addition to the LED element in the middle position

1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Base mount types snap into LPZP... control station base. See example on page 7-38.

Up to 2 contacts can be fitted per LPZ... control station actuator in addition to the LED element in the middle position

poontion		
1NO	LPXCB10	Screw
1NC	LPXCB01	Screw

Contact elements for illuminated push-push button actuators See page 7-37. Type:

LPXC10A (1EM)

LPXC01 (1NC)

Contacts snap onto mounting adapter and also internally on the cover surface of LPZ... control stations. Up to 4 contacts can be fitted: 2 each on the left and right, one behind the other; up to 2 elements per control station actuator in addition to the LED element in the middle position.

LED light elements

See pages 7-39 to 42.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14



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Pushbuttons and selector switches

new

PLatinum series Ø22mm chromed plastic

Double-touch actuators, spring return, white indicator



LPCBL71...



LPCBL72...

Order code	Colour	Symbol	Qty per pkg	Wt
			n°	[kg]
Two flush push Both spring ret	buttons (without urn.	mounting	adapter).	
LPCBL7112	Black/Red		5	0.030
LPCBL7113	Green/Red		5	0.030
L DCDI 7114	White / Dlack		4	0 0 0 0

LPCBL7114	White/Black		1	0.030
LPCBL7122	Black/Red	I-0	5	0.030
LPCBL7123	Green/Red	I-0	5	0.030
LPCBL7124	White/Black	I-0	5	0.030
LPCBL7133	Green/Red	Start/Stop	5	0.030
LPCBL7191	Black/Black	↑ ↓	5	0.030
		▼		

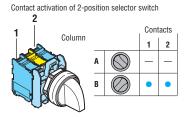
One extended and one flush pushbuttons (without mounting adapter). Both spring return.

LPCBL7212	Black/Red		1	0.030
LPCBL7213	Green/Red		5	0.030
LPCBL7214	White/Black		1	0.030
LPCBL7222	Black/Red	I-0	1	0.030
LPCBL7223	Green/Red	1-0	5	0.030
LPCBL7224	White/Black	I-0	5	0.030
LPCBL7233	Green/Red	Start/Stop	5	0.030

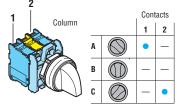
Illuminated selector switch actuators



LPCSL1...



Contact activation of 3-position selector switch



Order code	Colour	Type of positions	Qty per pkg	Wt
			n°	[kg]
2 positions (wi	thout mounting a	idapter).		
LPCSL1203	Green		10	0.025
LPCSL1204	Red		10	0.025
LPCSL1205	Yellow		10	0.025
LPCSL1206	Blue		10	0.025
LPCSL1208	White		10	0.025
LPCSL1213	Green		10	0.025
LPCSL1214	Red		1	0.025
LPCSL1215	Yellow		1	0.025
LPCSL1216	Blue		1	0.025
LPCSL1218	White		10	0.025
3 positions (wi	thout mounting a	idapter).		
LPCSL1303	Green		10	0.025
LPCSL1304	Red	$ \vee $	10	0.025
LPCSL1305	Yellow		10	0.025
LPCSL1306	Blue		10	0.025
LPCSL1308	White		10	0.025
LPCSL1313	Green		10	0.025
LPCSL1314	Red		1	0.025
LPCSL1315	Yellow		1	0.025
LPCSL1316	Blue		1	0.025
LPCSL1318	White		10	0.025
LPCSL1323	Green		10	0.025
LPCSL1324	Red		1	0.025
LPCSL1325	Yellow		1	0.025
LPCSL1326	Blue		1	0.025
LPCSL1328	White		10	0.025
LPCSL1333	Green		10	0.025
LPCSL1334	Red		1	0.025
LPCSL1335	Yellow		1	0.025
LPCSL1336	Blue		1	0.025
LPCSL1338	White		10	0.025

Operational characteristics

- Any mounting position allowed Ambient conditions:
- _ Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C Degree of protection: • Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life:

Double-touch: 1,000,000 cycles.

- Selector switches: 1,000,000 cycles.

Mounting adapter

See page 7-36.

Type: LPXAU120. Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ... control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-37 and 7-38.

Termination Туре Front-mount types snap onto LPXAU120 mounting adapter

(to purchase separately). For DOUBLE-TOUCH TYPES, up to 6 contacts can be fitted: 3 each on the left and right, one behind the other.

For SELECTOR SWITCHES, up to 4 contacts can be fitted: 2 each on the left and right, one behind the other. The <u>LPXAU120</u> mounting adapter can also be fitted internally to the cover of the LPZ... control station with up to 2 elements per actuator in addition to the LED element in the middle position.

1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw

Base-mount types snap into LPZP... control station base. See example on page 7-38.

Up to 2 contacts can be fitted per LPZ... control station actuator in addition to the LED element in the middle position.

1NO	LPXCB10	Screw
1NC	LPXCB01	Screw

Selector switch type of positions

Maintained position.

 ∇ Spring return position.

Selector switch rotation angles 2 positions 3 positions

LED light elements See pages 7-39 to 42.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices: EAC, CCC, RINA, Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

PLatinum series Ø22mm chromed plastic

Pilot light heads

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Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Without mount	ing adapter.		
LPL3	Green	10	0.024
LPL4	Red	10	0.024
LPL5	Yellow	10	0.024
LPL6	Blue	10	0.024
LPL7	Transparent	10	0.024
LPL1187	Transparent 4 0	10	0.024

• With symbol indicating dangerous voltage (IEC/EN/BS 60417 5036-a).

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection: Per IEC/EN: IP66, IP67 and IP69K Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials Polyamide.

Mounting adapter

See page 7-36. Type: LPXAU120.

Pilot light heads are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ... control stations, with LED element in central position. The mounting adapter directly snaps onto the actuator.

LED light elements

See pages 7-39 to 42.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

USB and RJ45 communication interfaces

new

lew



LPCD01

LPCD05

Order code	Description	Qty per pkg	Wt
		n°	[kg]
LPCD01	USB interface, A/A female type connection	1	0.018
LPCD01L050	USB interface, A/A female connection with 0.5m long cable	1	0.050
LPCD01L100	USB interface, A/A female connection with 1m long cable	1	0.080
LPCD03	USB interface, A/B female type connection	1	0.018
LPCD05	USB interface, B/A female type connection	1	0.018
LPCD06	RJ45 interface, Ethernet connection type	1	0.026
LPCD06L100	RJ45 interface, Ethernet connection with 1m long cable	1	0.090

General characteristics

USB and RJ45 communication interface connectors are used in industrial environments, which in recent years have seen an increase in the number of connections between machines, production lines, equipment and measuring instruments. These interfaces provide the transmission of data in both directions between the various devices.

Operational characteristics

- Rated insulation voltage for LPCD01, LPCD03, LPCD05: 5VAC/DC
- Rated insulation voltage for LPCD06: 24VAC Installed through a Ø22mm/Ø0.87" drilling with a _ threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ... control stations
- Transmission characteristics for LPCD01, LPCD03, LPCD05: 5Gbps (625MB/sec)
- Transmission characteristics for LPCD06: Cat.5E Rated current for LPCD01, LPCD03, LPCD05: 1.8A Rated current for LPCD06: 1.5A
- _
- _ _ Insulation resistance: ≥100M0hm
- Contact resistance for LPCD01, LPCD03, LPCD05: ≤30m0hm
- Contact resistance for LPCD06: ≤40m0hm
- _ USB connector class: 3.0 (backward compatible with USB class 2.0)
- Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection:
- · Per IEC/EN: IP65 on front (with cap mounted)
- · Per IEC/EN: IP20 at rear • Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K on front (with cap
- mounted)

Materials

Polyamide.

Certifications and compliance

Certifications: cULus, EAC, CCC. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

LPCD01L...





Ø22mm chromed plastic

LED integrated monoblock pilot lights steady light



LPM...

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UDIUCK	Urder code	Rated auxi- liary supply voltage	colour	uty per pkg	VVT
				n°	[kg]
	LPMLA1	12VAC/DC	Orange	10	0.021
	LPMLA3		Green	10	0.021
	LPMLA4		Red	10	0.021
	LPMLA5		Yellow	10	0.021
	LPMLA6		Blue	10	0.021
	LPMLA7		Transparent	10	0.021
	LPMLB1	24VAC/DC	Orange	10	0.021
	LPMLB3		Green	10	0.021
	LPMLB4		Red	10	0.021
	LPMLB5		Yellow	10	0.021
	LPMLB6		Blue	10	0.021
	LPMLB7		Transparent	10	0.021
	LPMLD1	48VAC/DC	Orange	10	0.021
	LPMLD3		Green	10	0.021
	LPMLD4		Red	10	0.021
	LPMLD5		Yellow	10	0.021
	LPMLD6		Blue	10	0.021
	LPMLD7		Transparent	10	0.021
	LPMLE1	110120VAC	Orange	10	0.024
	LPMLE3		Green	10	0.024
	LPMLE4		Red	10	0.024
	LPMLE5		Yellow	10	0.024
	LPMLE6		Blue	10	0.024
	LPMLE7		Transparent	10	0.024
	LPMLM1	230VAC	Orange	10	0.024
	LPMLM3		Green	10	0.024
	LPMLM4		Red	10	0.024
	LPMLM5		Yellow	10	0.024
	LPMLM6		Blue	10	0.024
	LPMLM7		Transparent	10	0.024
	LPMLP1	380415VAC	Orange	10	0.024
	LPMLP3		Green	10	0.024
	LPMLP4		Red	10	0.024
new	LPMLP5		Yellow	10	0.024
	LPMLP6		Blue	10	0.024
	LPMLP7		Transparent	10	0.024
	LPMLF1	110125VDC	Orange	10	0.024
	LPMLF3		Green	10	0.024
	LPMLF4		Red	10	0.024
new	LPMLF5		Yellow	10	0.024
	LPMLF6		Blue	10	0.024
	LPMLF7		Transparent	10	0.024
	LPMLN1	220VDC	Orange	10	0.024
	LPMLN3		Green	10	0.024
1ew	LPMLN4		Red	10	0.024
	LPMLN5		Yellow	10	0.024
	LPMLN6		Blue	10	0.024
	LPMLN7		Transparent	10	0.024

Order code Rated auxi- LED



Operational characteristics

Qty Wt

- Operational characteristics
 Rated frequency: 50-60Hz
 Auxiliary supply voltage:

 110...125VDC, 220VDC (-15%...+10% Ue)
 12VAC/DC, 24VAC/DC, 48VAC/DC (-15%...+10% Ue)
 110...120VAC, 230VAC, 380...415VAC (-15%...+10% Ue)
 Consumption: -20mA
- _
- Consumption: ≤ 20 mA Installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on _
- cover of LPZ... control stations
- Electrical life: >30,000 hours _ _
- Screw termination Side cable entry
- _ Maximum tightening torque: 0.8Nm/7lb.in
- _ Ambient conditions: • Operating temperature: -25...+70°C
- Degree of protection: • per IEC/EN: IP66, IP67 and IP69K on front; IP20 at rear
 - per UL: Type 1, 2, 3R, 4, 4X, 12, 12K on front.

Materials Polyamide.

Maximum conductor cross section

1 or 21.5mm² or AWG16 cables.

Wiring diagram



Certifications and compliance

Certifications: cULus, EAC, CCC (only for LPMLD..., LPMLE... and LPMLM...).

Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14. 7

Accessories and spare parts Dimensions page 7-46 to 51 page 7-65

Order code

LPCZSA

LPCZSB

LPCZSE

LPCZSM

4X version.

LPCZSAIP

LPCZSBIP

LPCZSEIP

LPCZSMIP

Voltage

[V]

Continuous or pulse tone, IP40 version.

9...15VAC/DC

18...30VAC/DC

9...15VAC/DC

18...30VAC/DC

85...140VAC/DC

185...265VAC/DC 80

85...140VAC/DC

185...265VAC/DC 90

Continuous or pulse tone, IP66, IP67, IP69K and UL Type



PLatinum series Ø22mm chromed plastic

Monoblock potentiometers



LPCPA.

Order code	Resistance value	Qty per pkg	Wt
		n°	[kg]
LPCPA001	1kΩ	1	0.040
LPCPA002	2.5kΩ	1	0.040
LPCPA005	5kΩ	1	0.040
LPCPA010	10kΩ	1	0.040
LPCPA050	50kΩ	1	0.040
LPCPA100	100kΩ	1	0.040
LPCPA500	500kΩ	1	0.040

General characteristics for monoblock potentiometers

Monoblock potentiometers are typically used for regulating the parameters of many devices (e.g. the speed of the electric motors through static converters).

The monoblock body design permits direct use of the potentiometer by panel fitting with fixing ring and subsequent tightening of cables into the built-in terminal block.

The potentiometer is made with Cermet technology, which ensures stable, constant resistance values over time. The, UL-certified, range is made for resistance values from 1 to 500kΩ. All potentiometers are IP66, IP67, IP69K and UL Type 4X, which means that they can be used in demanding ambient conditions.

Operational characteristics for monoblock potentiometers

- Rated insulation voltage Ui: 250VAC
- Impulse withstand voltage Uimp: 4kV
- Potentiometer included in the product _
- Monoblock body with 1-turn graduated scale
- Any fitting position permitted
- Installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the cover of LPZ... control stations Resistive material: cermet
- Operation: linear
- Resistance tolerance: ±10% Max. power: 0.5W (70°C)
- Mechanical endurance: 25,000 operations
- Mechanical travel: 290°
- Side cable entry
- Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection:

Qty

per

pkg

1

1

1

1

1

1

1

1

Wt

[kg]

0 0 2 0

0.020

0.020

0.020

0.020

0.020

0.020

0.020

Sound

90

90

90

80

80

80

Dimensions

page 7-65

intensity

at 2800Hz

[dB/10cm] n°

- Per IEC/EN: IP66, IP67 and IP69K on front Per IEC/EN: IP20 at rear
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K on front.

General characteristics for monoblock buzzers

Monoblock buzzers are used as sound indicators in automation systems and on-board machinery in the production processes. Long life, low consumption values, compact size and the use of materials, in accordance with the North American market are the main features of this product

Operational characteristics for monoblock buzzers

- Rated frequency: 50...60Hz Auxiliary supply voltage: 9...15VAC/DC, 18...30VAC/DC, 85...140VAC/DC, 185...265VAC/DC
- Maximum consumption: 20mA-0.30W (type 9..15VAC/DC), 15mA-0.40W (type 18..30VAC/DC), 5,5mA-0.80W (type 85..140VAC/DC), 3,5mA-0.95W (type 185...265VAC/DC)
- Minimum activation voltage: >4V (type 9...15VAC/DC),
- >8V (type 18..30VAC/DC), >15V (type 85..140VAC/DC),
 >8V (type 18..30VAC/DC), >15V (type 85..140VAC/DC),
 >25V (type 185..265VAC/DC)
 Impulse withstand voltage Uimp: 4kV
 Installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/20.3lb.in) also on the gover of LPZ, control extinct cover of LPZ... control stations Service life: 30,000 hours (permanently powered)
- _
- Side cable entry Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection (type LPCZS.
- Per IEC/EN: IP40 on front and IP20 at rear
- Degree of protection (type LPCZS...IP):
 - Per IEC/EN: IP66, IP67, IP69K on front and IP20 at rear
 Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K on front.

Materials

Polyamide.

Maximum conductor cross section

- Screw terminal connections with three separate connections:
- Min. cable 0.5mm² / AWG24 Max. cable 2.5mm² / AWG14
- Maximum tightening torque: 0.5Nm/4.4lb.in
- Flat-head screwdriver: 0.6x3.5mm/0.02x0.14".

Certifications and compliance

Certifications: cULus, EAC, CCC Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

Monoblock buzzers



LPCZS...



I	Pulse-ton	e sound gr	aph					
	Hz 3500 -							
	3000 - 2800 - 2500 -	0.3s	0.3s	0.3s	0.3s	0.3s		
	2000 -							
	1500 -							
	1000 -							
	500 -							
	0-							— s
	(0	0.6 .3	0	.9 1.	2	1.5	

Accessories and spare parts

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7

Pushbuttons and selector switches

PLatinum series

Pushbutton actuators, spring return, with special symbols



LPSB1253



LPFB1253



Order code 60	Symbol	Colour	Qty per pkg	Wt
			n°	[kg]
Spring return (wit	hout mountir		1	1
LP0808250	+	4	50	0.027
LP0808260	-	0	50	0.027
LP0800270	- <u>-</u>	0	50	0.027
LP0800280	-\$-	0	50	0.027
LP0808290	<u></u>	4	50	0.027
LP0808300	ALTD	4	50	0.027
LP0B06310	BASS0	4	50	0.027
LP0808320	\$ X	4	50	0.027
LP0B00330		4	50	0.027
LP0B@@340	MAN	4	50	0.027
LP0B00350	AUTO	4	50	0.027
LP0800380	TRIP	4	50	0.027
LP0B00390	TEST	4	50	0.027
LP0808400	\triangle	0	50	0.027
LP0B00410	t	4	50	0.027
LP0808420	\bigcirc	0	50	0.027
LP0808430	0	0	50	0.027
LP0808440	1	0	50	0.027
LP0808450	ww	0	50	0.027
LP0808460		0	50	0.027
LP0806470	\bigcirc	4	50	0.027
LP0806480	¢,	4	50	0.027
LP0806490	†↓	4	50	0.027
LP0800520	\sim	4	50	0.027
LP0800530	ז∎ר	4	50	0.027
LP0800540		0	50	0.027
LP0800550		0	50	0.027
LP0808560	START STOP	0	50	0.027
LP0800570		0	50	0.027
LP0808580	IV	4	50	0.027
LP0808590	₹	4	50	0.027
LP0808600	"Č"	0	50	0.027
LP0808610	<u>سر</u>	4	50	0.027
LP0808620	7	4	50	0.027
LP0808630	5	4	50	0.027
LPOB@@64@	0	4	50	0.027
LPOB@@65@	$\overline{\mathbb{T}}$	4	50	0.027
	A	0	50	0.027
		0	50	0.027
	Â	0	50	0.027
2. 0000000	<u> </u>	Ŭ		0.021

Add letter "S" if Ø22mm metal type is required; "F" if Ø30mm flat metal type is required; "C" if Ø22mm chromed plastic type is required.
Add letter "L" if illuminated type is required.
or the type of actuator, add: 1 for flush or 2 for extended.

 Add the actuator colour: 2 black only for non-illuminated type;
 3 green, 4 red, 5 yellow, 6 blue, 8 white or 7 transparent for illuminated version

• Products available on specific request for a minimum multiple quantity

of 50 pieces per type. G Consult Technical support for assistance; see contact details or inside front cover. Symbol indicating dangerous voltage (IEC 60417 5036-a).

Examples of complete order codes: LPSB2258 – Ø22mm metal white extended pushbutton with + symbol; LPFBL1685 - Ø30mm illuminated flat metal yellow flush pushbutton with 🖄 symbol;

LPCB1344 -Ø22mm chromed plastic green flush pushbutton with "AUTO" symbol.

Operational characteristics

- Any mounting position allowed Ambient conditions: _
- Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection:
 Per IEC/EN: IP66, IP67 and IP69K • Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mechanical endurance

Operating force: <0.5kg/1.1lb (actuator). Mechanical life: 5,000,000 cycles.

Mounting adapter

See page 7-36 Type: LPXAU120..

Contact elements

See page 7-37 and 7-38.					
	Туре		Termination		
	purchase sepa Up to 9 contac right, one behi The LPXAU120	rately). Its can be fitted: 3 e nd the other. D mounting adapt e cover of the LPZ	aps onto the actuator (to ach on the left, middle and er can also be fitted control station with up to		
	1NO LPXC10 Screw				
	LPXCF10 Faston LPXCS10 Spring clamp				

	LFAGFIU	Fasion
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw
Base mount ty	nes snan into I P7P	control station base

Base mount types snap into See example on page 7-38. ITO LPZP... CONTROL STATION DASE.

Up to 3 elements can be fitted to the adapter when used with the LPZ... control station.

1NC LPXCB01 Screw	1NO	LPXCB10	Screw
	1NC	LPXCB01	Screw

All these actuators are standard-supplied with action plug for middle contacts.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

PLatinum series

Mounting adapters



LPXAU120

LPXE...M

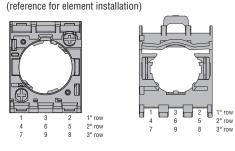
LPXE...

INDEX



	Order code	Description	Qty per pkg	Wt
			n°	[kg]
/	LPXAU120M	Mounting adapter for metal actuators (LPS and LPF)	10	0.019
	LPXAU120	Mounting adapter for chromed plastic actuators (LPC)	10	0.004

Rear view



Order code	Funzione	Qty per pkg	Wt					
		n°	[kg]					
Screw termination contact elements. For metal actuators LPS and LPF With LPXAU120M mounting adapter.								

LPXE10MO 0.030 |.3 5 NOO LPXE01M ↔ 5 0.030 L.1 \ominus NCØ

Screw termination contact elements. For chromed plastic actuators LPC... With LPXAU120 mounting adapter.

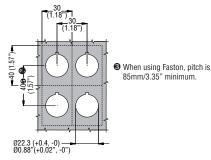
LPXE100	.3 ∖ NO❶ .4	10	0.015
<u>LPXE01</u> ⊖	l.¹ ∕.₂ ⊖ NC❷	10	0.015

• Use LPXC10A (EM) or LPXC01 (NC) type only with push-push

actuators. Not suitable for push-push actuators. Ø Direct (positive) opening action ↔ in accordance with IEC/EN/BS 60947-5-1.

Drillings

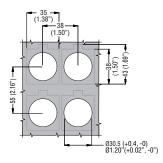
Minimum recommended distances for Ø22mm/0.87" actuators.



Minimum recommended distances for Ø30mm/1.18"

85mm/3.35" minimum.

actuators



Operational characteristics

- Any mounting position allowed for LPXAU120M: the base is fixed to the mounting surface by 2 screws incorporated in the base (Tmax = 0.7Nm/6.1lb.in)
 - Ambient conditions:
 - Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C
- Degree of protection:
- IP20 for screw termination
- IP00 for Faston termination.

General characteristics of contact elements

Wiping effect, dual scraping-oscillating action IEC rated insulation voltage: 690V IEC rated thermal current Ith: 10A Conductivity: 5V 1mA UL/CSA and IEC/EN/BS 60947-5-1 designation: A600 Q600.

IEC/EN operational characteristics in AC15 category:

120, 211 operational enalactioned to ballogery.										
[V]	12	24	48	120	240	400	480	500	600	
[A]	6	6	6	6	6	3	1.5	1.4	1.2	
IEC/EN operational characteristics in DC13 category:										
[V]	12	24	Ļ	48	125	250	440	500	600	
[A] 3 3 1.5 0.55 0.27 0.15 0.13 0.1										
Cha	rt oir			tin a fer		اللمم الل	h	A = 0/0	0	

Short-circuit protection fuse: max calibre: 10A gG/SC. Contact resistance: $\leq 20m\Omega$. Terminals: Clamp screw with washer.

Stroke of contact elements



Maximum conductor cross section for screw terminals 1 or 2 2.5mm² or AWG14 cables.

Mechanical and electrical endurance

Operating force: ≤0.5kg/1.1lb (auxiliary contacts). Electrical life: 1,000,000 cycles.

Certifications and compliance

Certifications: EAC, cULus, CCC, RINA Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

Mounting adapters with

new

contact elements





PLatinum series

Contact elements with screw terminals



LPXC..

Order code	Function	Qty per pkg	Wt
		n°	[kg]
Screw termination.	Nithout mounting ada	pter.	
LPXC10	.3 .4 NOO	10	0.011
LPXC10A	.7 ∖.8 EM❷	10	0.011
LPXC01 ⊖	L.1 ∕⊖ NC⊕	10	0.011
$\underline{LPXC01D} \bullet \ominus$	L.5 (⊖ LB 0 ®Ø	10	0.011

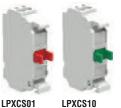
• Use LPXC10A (EM) or LPXC01 (NC) type only with push-push actuators. Not suitable for push-push actuators.

Function

- Normally open contact with early-make operation and suitable for
- push-push actuators.
- push-push actuators.
 Ø Direct (positive) opening action ⊖ in accordance with IEC/EN/BS 60947-5-1.
 Ø Normally closed contact with late break operation.

Qty Wt

Contact elements with spring-clamp terminals



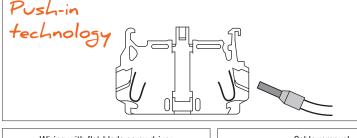
LPXCS01

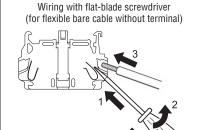
		per pkg						
		n°	[kg]					
Spring-clamp termination. Without mounting adapter.								
LPXCS100		10	0.010					
LPXCS01 ⊖		10	0.010					
Not suitable for nu	sh-nush actuators							

 $\textbf{@} \ \ \mathsf{Direct} \ (\mathsf{positive}) \ \mathsf{opening} \ \mathsf{action} \bigoplus \ \mathsf{in} \ \mathsf{accordance} \ \mathsf{with} \ \mathsf{IEC/EN/BS} \ \mathsf{60947-5-1}.$

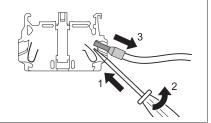
Push-in wiring technology for rigid cables or with ferrules only - no screwdriver needed Cable retaining force guaranteed over time even in presence of vibrations and/or impacts

Order code





Cable removal (always using flat-blade screwdriver)



Operational characteristics for screw termination

- Any mounting position allowed Snap onto LPXAU120M or LPXAU120 mounting adapters:
- See the combinations given under "Contact elements" in the right-hand column for each type of pushbutton and selector switch
- A maximum of 3 LPXCF... contacts or 2 contacts and 1 LED element (LPXL... mounted in the middle position) can be fixed internally on the cover surface of LPZ... control stations for each actuator
- Max. tightening torque for screw terminals: 1Nm/8.8lb.in _ Ambient conditions:
 - Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C
 - Degree of protection:
 - IP20 for screw termination · IP00 for Faston termination.

Operational characteristics for spring-clamp termination

- Any mounting position allowed Elements snap onto mounting adapter, also internally on LPZ... control station cover with maximum of 3 LPXCS... contact or 2 LPXCS... contact and 1 LPXLPS... LED elements (in middle position) per actuator
- No other element can be stacked behind LED elements
- See the combinations given under "Contact elements" in the right-hand column for each type of pushbutton and selector switch
- Suitable for applications with vibration and/or impact work conditions; cable retaining force guaranteed over time in these conditions
- For use with the test elements, see page 7-37
- Wiring also possible after installation with stacked contacts
- Ambient conditions:
- Operating temperature: -25...+70°C
 Storage temperature: -40...+85°C
 Degree of protection: IP20.

General characteristics of contact elements

Wiping action and dual scraping-oscillating effect

IEC rated insulation voltage: 690V

- IEC rated thermal current Ith: 10A
- Conductivity: 1mA 5V

UL/CSA and IEC/EN/BS 60947-5-1 designation: A600 Q600. IEC/EN operational characteristics in AC15 category

ILU/LIN Operational characteristics in ACTS category.									
[V]	12	24	48	120	240	400	480	500	600
[A]	6	6	6	6	6	3	1.5	1.4	1.2
IEC/EN operational characteristics in DC13 category:									
[V]	12	2	4	48	125	250	440	500	600
[A]	3	3		1.5	0.55	0.27	0.15	0.13	0.1

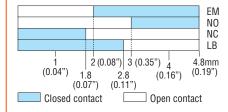
Short circuit protection fuse: max calibre: 10A gG/SC.

Contact resistance: $\leq 20m\Omega$.

Clamp screw with washer. Terminals:

Faston 1x6.35mm(0.25") or 2x2.8mm(0.11").

Stroke of contact elements



Maximum conductor cross section for screw terminals 1 or 2 2.5mm² or AWG14 cables

Mechanical and electrical endurance

Operating force: ≤0.5kg/1.1lb (auxiliary contacts). Electrical life: 1,000,000 cycles for LPXC10/01/E01/10, LPXC01SM/02SM, LPXCF10/01; 600,000 cycles for LPXC10A/01D.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

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Pushbuttons and selector switches

PLatinum series

Contact elements with Faston terminals



LPXCF01 LPXCF10

Auto-monitoring contact

LPXC02SM

Contact elements, base

mount on LPZP... control

stations with screw

terminals

LPXCB.

elements with screw

terminals

LPXC01SM

Order code	Function	Qty per pkg	Wt						
		n°	[kg]						
Faston termination.	Faston termination. Without mounting adapter.								
LPXCF100		10	0.012						
$\textbf{LPXCF01} \ominus$	L.¹ 7 ⊖ NC@	10	0.012						

1.2 Use LPXC10A (EM) or LPXC01 (NC) type only with push-push

Big the second s

Order code Function Qty per pkg n°

[kg] Screw termination. Without mounting adapter. Auto-monitor contact elements for non-illuminated latch mushroom-head pushbuttons.

Wt

0.012

LPXC01SM0 ⊖		1	0.022
LPXC02SMO ⊖	.4 .2 (.2	1	0.033

• Use LPXC10A (EM) or LPXC01 (NC) type only with push-push

actuators. Not suitable for push-push actuators. Ø Direct opening operation → in accordance with IEC/EN/BS 60947-5-1.

Order code	Function	Qty per pkg	Wt
		n°	[kg]
Screw termination			

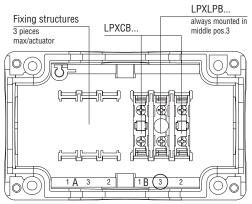
Direct snap-on mounting on LPZP... control station base. I DVCD100 10 1.3 0.012

		10
$\underline{LPXCB01} \ominus$	L.¹ 7⊕ NC@	10

12

● Not suitable for push-push actuators.
 ● Direct opening operation → in accordance with IEC/EN/BS 60947-5-1.

Mounting position on the LPZ... control station base



Dimensions

page 7-62

General characteristics

- Any mounting position allowed Max. tightening torque for screw terminals: 1Nm/8.8lb.in
- Ambient conditions: Operating temperature: -25...+70°C
 Storage temperature: -40...+85°C
 Degree of protection: IP20 for screw termination, IP00 for
- Faston termination.

Operational characteristics for Faston termination and automonitoring contact elements

- Snap onto LPXAU120M or LPXAU120 mounting adapters:
- A maximum of 3 LPXCF... contacts or 2 contacts and 1 LED element (LPXL... mounted in the middle position) can be fixed internally on the cover surface of LPZ... control stations for each actuator
- A maximum of 2 LPXC...SM contacts can be installed on adapters exclusively on non-illuminated mushroom-head latch actuators
- In pos. 1-3 (on the left side only of the mounting adapters; refer to REAR VIEW drawing), one only LPXC01SM or LPXC02SM element can be fitted
- One extra LPX...SM can be installed in pos. 4-6 (stacked behind the LPX...SM on the mounting adapters)
- With LPXC01SM, a maximum of two contacts LPXC0... or LPXC1... can be fitted on the right side of the mounting adapters in pos. 2 and 5, one behind the other
- On the internal surface of LPZ... control station covers, one only LPXC01SM or LPXC02SM contact can be mounted on the mounting adapters in pos. 1 (on the left). With LPXC01SM, one extra element LPXC0... or LPXC1... can
- be fitted on the right (on the mounting adapters in pos. 2). No LED element can be used with LPXC...SM types.

Operational characteristics for base mount on LPZP... control stations contact elements

- Snap-on mounting into fixing structures of LPZP... control station base
- Maximum of 3 LPXCB... contact or 2 LPXCB... contact and 1 LPXLPB... LED elements (in middle pos. 3) for each actuator of LPZP... control stations
- For use with test elements, consult Technical support; see contact details on inside front cover

Mounting adapter

See page 7-36.

General characteristics

Wiping action and dual scraping-oscillating effect IEC rated insulation voltage: 690V

IEC rated thermal current Ith: 10A

Conductivity: 5V 1mA

UL/CSA and IEC/EN/BS 60947-5-1 designation: A600 Q600. IEC/EN operational characteristics in AC15 category:

TEO/EN operational enalacteristics in A015 category.										
[V]	12	24	48	120	240	400	480	500	600	
[A]	6	6	6	6	6	3	1.5	1.4	1.2	
IEC/EN operational characteristics in DC13 category:										
[V]	12	24	1	48	125	250	440	500	600	
[A] 3 3 1.5 0.55 0.27 0.15 0.13 0.1										
Short-circuit protection fuse: max calibre: 10A gG/SC.										

Contact resistance: $\leq 20m\Omega$.

Clamp screw with washer. Terminals:

Faston 1x6.35mm(0.25") or 2x2.8mm(0.11").

Stroke of contact elements

			NO NC
1 1.8 (0.03") (0.07"	3 ") (0.1	4 1") (0.16	4.8mm 5") (0.19")
Closed contact Open contact			contact

Mechanical and electrical endurance of contact elements

Opening force: ≤0,5kg/1.1lb Electrical life: 1,000,000 cycles for LPXCS10 and LPXCS01.

Maximum conductor cross section

1 or 2 2.5mm² or AWG14 cables. For 2.5mm² section, use rounded cable terminal with metal end at least 10mm.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

Wiring diagrams page 7-69

PLatinum series

Test elements for steady light LED elements with screw terminals



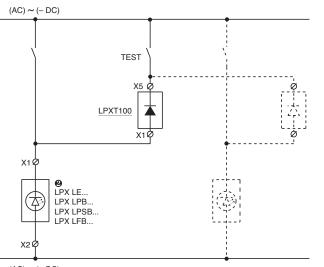
LPXT...

Order code	Description	Qty per pkg	Wt
		n°	[kg]
Screw terminati	ion. Without mounting adapter.		
LPX T10000	Use with LED elements in AC/DC, types LPXLE (all), LPXLFB, LPXLPB and LPXLPSB	10	0.011
<u>LPX T101</u> 0	Use with LED elements at 85-140VAC for types LPXLFE LPXLPE and LPXLPSE	10	0.011
<u>LPX T102</u> 0	Use with LED elements at 185-265VAC for types LPXLFM, LPXLPM and LPXLPSM	10	0.011

Whenever test circuits include illuminated actuators connected with paralleled load, use two LPXT100 for each LED element. Refer to the wiring diagram below or online in the Downloads section at

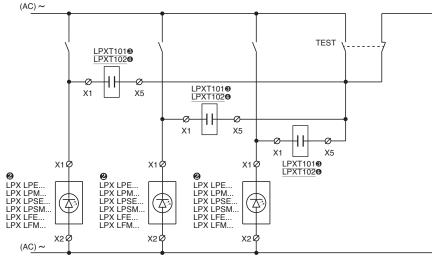
Www.LovatoElectric.com
 With DC supply only for <u>LPXT100</u> type, the LED element works at full voltage and brightness while with AC supply for all LPXT... types, the LED element works at half voltage with reduced brightness level.

For LPXT100 test element



 $(AC) \sim (+ DC)$

For LPXT101 and LPXT102 test elements



3 Use with LPXLFE..., LPXLPE... or LPXLPSE... type.

Use with LPXLFM..., LPXLPM... or LPXLPSM... type

Operational characteristics

- Auxiliary supply voltage: LPXT100 test element:

 - LPXT100 test element. 12...30VAC/DC for LPXLEB/LFB/LPB/LPSB... 85...140VAC/DC for LPXLEE... 185...265VAC/DC for LPXLEE...

 - LPXT101 test element: 85...140VAC
- LPXT102 test element: 185...265VAC For use with LED elements LPXLPBB/LPBE/LPBM... types, consult Technical support; see contact details on
- inside front cover
- Electrical life: 100,000 hours _ _
- Any mounting position allowed
- Snap onto mounting adapter beside the LED element or stacked behind contact elements; also internally on the LPZ... control station cover
- Maximum tightening torque: 1Nm/8.8lb.in
- _ Ambient conditions:
 - Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection: IP20.

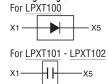
Mounting adapter See page 7-36

The mounting adapter directly snaps onto the actuator fixed to the mounting surface.

Maximum conductor cross section

1 or 2 2.5mm² or AWG 12 cables.

Wiring diargram



Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BC 60047-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

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INDEX

Pushbuttons and selector switches

PLatinum series

LED elements steady light with screw terminals



LPXLP...

Total protection against overvoltages and stray currents in wiring, to reduce flickering phenomenon and withstand



I PXI F...

Simple protection against overvoltages

Order code	Rated supply voltage	LED colour	Qty per pkg.	Wt
	[V]		n°	[kg]
Steady light, screw Without mounting				
LPXLPB3	1230V	Green	10	0.016
LPXLPB4	AC/DC	Red	10	0.016
LPXLPB5		Yellow	10	0.016
LPXLPB6		Blue	10	0.016
LPXLPB8		White	10	0.016
LPXLPE3	85140V	Green	10	0.016
LPXLPE4	AC	Red	10	0.016
LPXLPE5		Yellow	10	0.016
LPXLPE6		Blue	10	0.016
LPXLPE8		White	10	0.016
LPXLPM3	185265V	Green	10	0.016
LPXLPM4	AC	Red	10	0.016
LPXLPM5		Yellow	10	0.016
LPXLPM6		Blue	10	0.016
LPXLPM8		White	10	0.016

Order code	Rated supply voltage	LED colour	Qty per pkg.	Wt
	[V]		n°	[kg]
Steady light, screw ter	mination.			

Without mounting adapter

Without mounting ad	lapter.			
LPXLEB3	1230V	Green	10	0.016
LPXLEB4	AC/DC	Red	10	0.016
LPXLEB5		Yellow	10	0.016
LPXLEB6		Blue	10	0.016
LPXLEB8		White	10	0.016
LPXLED3	48VAC/DC	Green	10	0.016
LPXLED4		Red	10	0.016
LPXLED5		Yellow	10	0.016
LPXLED6		Blue	10	0.016
LPXLED8		White	10	0.016
LPXLEE3	85140V	Green	10	0.016
LPXLEE4	AC/DC	Red	10	0.016
LPXLEE5		Yellow	10	0.016
LPXLEE6		Blue	10	0.016
LPXLEE8		White	10	0.016
LPXLEM3	185265V	Green	10	0.016
LPXLEM4	AC/DC	Red	10	0.016
LPXLEM5		Yellow	10	0.016
LPXLEM6		Blue	10	0.016
LPXLEM8		White	10	0.016

Operational characteristics

- Rated frequency: 50-60Hz
 Auxiliary supply voltage:
 LPXLP...: 12...30VAC/DC; 85...140VAC; 185...265VAC
 LPXLE...: 12...30VAC/DC; 85...140VAC/DC; 185...265VAC/DC
 Maximum concurrentiation
- Maximum consumption:
 - Maximum consumption:
 LPXLP...: 17mA-0.50W (12...30VAC/DC); 20mA-0.40W (85...140VAC); 18mA-0.55W (185...265VAC)
 LPXLE...: 11mA-0.33W (12...30VAC/DC); 5mA-0.72W (85...140VAC/DC); 3mA-0.67W (185...265VAC/DC)
 Total protection for LPXLP... types:

 - Against overvoltages
 - Against stray currents in wiring
 To reduce flickering phenomenon
 - · To withstand vibrations
- Simple protection for LPXLE... types: Against overvoltages
- To withstand vibrations
- Minimum activation voltage:
 LPXLP...: 4V-1mA (12...30VAC/DC); 30V-4mA (85...140VAC); 55V-4mA (185...265VAC)
 LPXLE...: 4V-0.5mA (12...30VAC/DC);
 - 15V-0.4mA (85...140VAC/DC); 35V-0.3mA
 - (185...265VAC/DC)
- Electrical life: 100,000 hours
- Snap onto LPXAU120M or LPXAU120 mounting adapter in the middle position for each illuminated actuator, also internally on the LPZ... control station cover No other element can be stacked behind LED elements
- Any mounting position allowed Maximum tightening torque: 1Nm/8.8lb.in
- _
- Ambient conditions:
 - Operating temperature: -25...+70°C (-25...+60°C for LPXLE...)
 - Storage temperature: -40...+85°C Degree of protection: IP20.

Mounting adapter See page 7-36.

The mounting adapter directly snaps onto the actuator fixed to the mounting surface.

Maximum conductor cross section

1 or 2 2.5mm² or AWG12 cables.

Wiring diagram



Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14



Order code

PLatinum series

LED elements flashing light with screw terminals

Flashing light, screw termination.Without mounting adapter.LPXLFB31830VGreen100	[kg] 0.016 0.016
Without mounting adapter. LPXLFB3 1830V Green 10 0	
IPXIFB4 AC/DC Bed 10 (0.016
LPXLFB5 Yellow 10 0	0.016
LPXLFB6 Blue 10 0	0.016
LPXLFB8 White 10 (0.016
	0.016
LPXLFE4 AC Red 10 (0.016
LPXLFE5 Yellow 10 (0.016
LPXLFE6 Blue 10 0	0.016
LPXLFE8 White 10 0	0.016
	0.016
and stray currents in LPXLFM4 AC Red 10 (0.016
	0.016
	0.016
Drations. LPXLFM8 White 10 (0.016

Rated supply

voltage

LED

colour

Operational characteristics

Qty

per

Wt

- Rated frequency: 50-60Hz Auxiliary supply voltage: LPXLF... 18...30VAC/DC; 85...140VAC, 185...265VAC
- Maximum consumption: 17mA-0.50W (12...30VAC/DC); 20mA-0.40W (85...140VAC); 18mA-0.55W (185...265VAC) Total protection:
- Against overvoltages
- Against stray currents in wiring
- · To reduce flickering phenomenon
- To withstand vibrations
- Minimum activation voltage:
- 5V-1.5mA (18...30VAC/DC); 13V-1.5mA (85...140VAC); 25V-1.5mA (185...265VAC)
- Electrical life: 100,000 hours
- _ Snap onto mounting adapter in the middle position for each illuminated actuator, also internally on the LPZ... control station cover
- No other element can be stacked behind LED elements _ Any mounting position allowed
- _ Maximum tightening torque: 1Nm/8.8lb.in
- Ambient conditions:
- Operating temperature: -25...+70°C (-25...+60°C for LPX LE...)
- Storage temperature: -40...+85°C
- Degree of protection: IP20.

Mounting adapter

See page 7-36. The mounting adapter directly snaps onto the actuator fixed to the mounting surface.

Maximum conductor cross section

1 or 2 2.5mm² or AWG12 cables.

Wiring diagram



Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.



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LPXLF...

Total pro

overvoltages a

wiring, to

PLatinum series

LED elements steady light with spring-clamp terminals



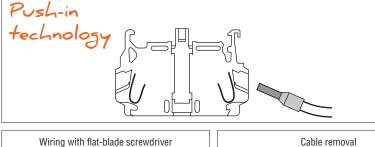
LPXLPS...

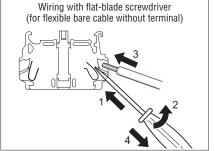
INDEX

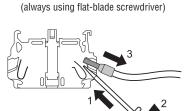
Total protection against overvoltages and stray currents in wiring, to reduce flickering phenomenon and withstand vibrations.

Order code	Rated supply voltage	LED colour	Qty per pkg	Wt			
	[V]		n°	[kg]			
Steady light, with spring-clamp termination. Without mounting adapter.							
LPXLPSB3	1230VAC/DC	Green	10	0.015			
LPXLPSB4		Red	10	0.015			
LPXLPSB5		Yellow	10	0.015			
LPXLPSB6		Blue	10	0.015			
LPXLPSB8		White	10	0.015			
LPXLPSE3	85140VAC	Green	10	0.015			
LPXLPSE4		Red	10	0.015			
LPXLPSE5		Yellow	10	0.015			
LPXLPSE6		Blue	10	0.015			
LPXLPSE8		White	10	0.015			
LPXLPSM3	185265VAC	Green	10	0.015			
LPXLPSM4		Red	10	0.015			
LPXLPSM5		Yellow	10	0.015			
LPXLPSM6		Blue	10	0.015			
LPXLPSM8		White	10	0.015			

Push-in wiring technology for rigid cables or with ferrules only - no screwdriver needed Cable retaining force guaranteed over time even in presence of vibrations and/or impacts







Operational characteristics

- _
- Any mounting position allowed Elements snap onto adapter, also internally on LPZ... control station cover (in middle position) per actuator
- No other element can be stacked behind LED elements See the combinations given under "Contact elements" in
- _ the right-hand column for each type of pushbutton and selector switch
- Suitable for applications with vibration and/or impact work conditions; cable retaining force guaranteed over time in these conditions
- For use with the test elements, see page 7-37
- Wiring also possible after installation with stacked contacts
- Ambient conditions:
 - Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C - Degree of protection: IP20.

Mounting adapter

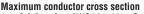
See page 7-36. The mounting adapter directly snaps onto the actuator fixed to the mounting surface.

General characteristics

- Rated frequency: 50-60Hz
- Auxiliary supply voltage: 12...30VAC/DC; 85...140VAC; 185...265VAC Maximum consumption: 17mA-0.50W (12...30VAC/DC);
- 20mA-0.40W (85...140VAC); 18mA-0.55W (185...265VAC)
- Total protection:
- Against overvoltages
- Against overvorlages
 Against stray currents in wiring
 To reduce flickering phenomenon
- To withstand vibrations
- Minimum activation voltage: 4V-1mA (12...30VAC/DC); 30V-4mA (85...140VAC); 55V-4mA (185...265VAC)
- Electrical life: 100,000 hours.

Wiring diagram for LED elements





1 or 2 2.5mm² or AWG14 cables. For 2.5mm² section, use rounded cable terminal with metal end at least 10mm.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

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PLatinum series

LED elements, steady light base mount on LPZP... control stations with screw terminals



INDEX

LPXLPB...

Total protection against overvoltages and stray currents in wiring, to reduce flickering phenomenon and withstand

rder code	Rated supply voltage	LED color	Qty per pkg.	Wt
	[V]		n°	[kg]



Or

Direct snap-on mounting on LPZ... control station base.

LPXLPBB3	1230V	Green	10	0.016
LPXLPBB4	AC/DC	Red	10	0.016
LPXLPBB5		Yellow	10	0.016
LPXLPBB6		Blue	10	0.016
LPXLPBB8		White	10	0.016
LPXLPBE3	85140V	Green	10	0.016
LPXLPBE4	AC	Red	10	0.016
LPXLPBE5		Yellow	10	0.016
LPXLPBE6		Blue	10	0.016
LPXLPBE8		White	10	0.016
LPXLPBM3	185265V	Green	10	0.016
LPXLPBM4	AC	Red	10	0.016
LPXLPBM5	-	Yellow	10	0.016
LPXLPBM6		Blue	10	0.016
LPXLPBM8		White	10	0.016

Mounting position on the LPZ... control station base

Operational characteristics

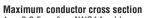
- _
- Jerational characteristics Any mounting position allowed Snap-on mounting into fixing structures of LPZ... control station base (in middle pos. 3) for each actuator See the combinations given under "Contact elements" in the right-hand column for each type of pushbutton and selector switch
- For use with test elements, consult Technical support; see _ contact details on inside front cover
- Maximum tightening torque for screw terminals: 1Nm/8.8lb.in
- Ambient conditions: _
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection: IP20.

General characteristics

- Rated frequency: 50...60Hz _
- Auxiliary supply voltage: 12...30VAC/DC; 85...140VAC; 185...265VAC Maximum consumption:
- 17mA-0.50W (12...30VAC/DC); 20mA-0.40W (85...140VAC); 18mA-0.55W (185...265VAC)
- Total protection:
 - Against overvoltages
 - · Against stray currents in wiring
 - · To reduce flickering phenomenon
 - · To withstand vibrations
- Minimum activation voltage:
- steady light LPXLPB.....: 4V-1mA (12...30VAC/DC); 30V-4mA (85...140VAC); 55V-4mA (185...265VAC)
- Electrical life: 100,000 hours.

Wiring diagram for LED elements

¥2	V1
A2	



1 or 2 2.5mm² or AWG14 cables.

Certifications and compliance

O

Certifications and compnance Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

Fixing structures LPXCB. 3 pieces max/actuator 0

LPXLPB.. always mounted in middle pos.3 0 \bigcirc

Wiring diagrams

page 7-69



PLatinum series

new

Accessories and spare parts for Ø22mm metal LPS... actuators



INDEX







LPXA130B

LPXA130











LPXAU108	
LPXAU109	

Order code	Description	Qty pkg	Wt
		n°	[kg]
LPSXB0	Flush or extended spring return actuator with no cap	5	0.013
LPSXB30	Shrouded spring return actuator with no cap	5	0.014
LPSXQOO	Flush or extended push-push actuator with no cap	5	0.013
<u>LPSXQL0</u> 0	Illuminated flush or extended push-push actuator with no lens	5	0.013
LPXA161M	Adapter for Ø30mm/1.18" holes to Ø22mm/0.87" for mushroom operators	5	0.030
LPXA162M	Adapter for Ø30mm/1.18" holes to Ø22mm/0.87" for pushbuttons and selector switches	5	0.032
LPSXA127	Transparent diffuser for double-touch buttons	5	0.001
LPXA130	Threaded plug for unused drilled holes (grey)	10	0.007
LPXA130B	Threaded plug for unused drilled holes (black)	10	0.007
LPXDIN	Adapter for mounting buttons on DIN rail 35mm/ 1.38" wide (2 modules)	10	0.008
LPXA150	Rod for mechanical reset button (I =150mm/5.90")	10	0.006
Protections.			
LPXAU1300	Rubber boot for flush buttons	10	0.006
LPXAU1400	Rubber boot for extended buttons	10	0.009
LPXAU157	Rubber boot for double and triple-touch buttons (transpar.)	10	0.007
<u>LPXAU167</u> 00	Rubber boot for mushroom head buttons, LPSB63/B66/ B67/BL66 (transparent)	10	0.012
LPXAU158@@	Padlockable protection, Ø5-8mm/0.2-0.31" locks for buttons LPSB66/B67/B68/ BL664; for LSCB634 Ø5-6mm/0.2-0.24" locks only	10	0.005
LPXAU159@@	Shroud for buttons LPB63/66/67/68/BL666	10	0.010
LPXAU170	Protection cover for Ø22mm metal buttons	5	0.015
LPXAU171	Coperchio di protezione con chiusura a molle per pulsanti metallici Ø22mm	5	0.016
LPXA185	Yellow shroud for selectors	10	0.004
Label holders and label	Label holder for LPXAU109	50	0.001
LPXAU203	and LPXAU203 labels Blank label for writing	50	0.001
LPXAU203 LPXAU109	Engravable silver plastic label	50	0.001
LPXAU105	to use with LPXAU100 holder Label holder for LPXAU108	50	0.003
	plastic labels		
LPXAU108	Engravable silver plastic label to use with LPXAU105 holder	50	0.002
LPXAU102@	Legend holder for LPXAU202 paper or LPXAU201 plastic labels	50	0.003
LPXAU202	Blank paper label for writing for LPXAU102	50	0.002
LPXAU200	Transparent protection for LPXAU202 label	50	0.001
LPXAU201	Blank plastic label for engraving for LPXAU102	50	0.002

General characteristics

LABEL DIMENSIONS

- LABEL DIMENSIONS LPXAU108: 26.5x15mm/1.04x0.59" LPXAU109: 27.5x12.1mm/1.08x0.48" LPXAU202: 27.5x15.1mm/1.08x0.59" LPXAU201: 27.5x15.1mm/1.08x0.59" LPXAU203: 27.5x12.1mm/1.08x0.48"

- For actuators caps and lenses see page 7-47.
 The use of the LPXAU102 label holder with LPC... actuators does not guarantee the IP65 degree of protection.
 For flush and extended push buttons, complete the order code by adding the distribution of the monitorial colourant of the monitorial colourant.
- For Tush and extended push buttons, complete the order code by adding the digit of the required colour:
 2 (black); 3 (green); 4 (red); 5 (yellow); 6 (blue); 7 (transparent); 8 (white). For illuminated push buttons, add only digit 7 (transparent).
 Cannot be used when LPXAU100, LPXAU105 or LPXAU102 is fitted.
 Cannot be used when LPXAU158 is fitted.
 Evr. Ishels with but sea paga 7.48

- For labels with text see page 7-48.



new

PLatinum series

Accessories and spare parts for Ø30mm flat metal LPF... actuators



LPFXB0



LPXAU00





LPFXAU105

LPFXAU100





LPFXAU100G



Order code	Description	Qty pkg	Wt
		n°	[kg]
LPFXB0	Flush or extended spring return actuator with no cap	5	0.013
LPFXQ0	Flush or extended push-push actuator with no cap	5	0.013
	Illuminated flush or extended push-push actuator with no cap	5	0.013
LPFXAU00	Metal adapter for actuator fixing	5	0.002
LPFXA130	Threaded plug for unused drilled holes (black)	5	0.007
Label holders and la	bels. 🛛		
LPFXAU100	Label holder for LPXAU109 and LPXAU203 labels (black)	5	0.004
LPFXAU100G	Label holder for LPXAU109 and LPXAU203 labels (grey)	5	0.004
LPXAU203	Blank label for writing	50	0.001
LPFXAU105	Label holder for LPXAU108 plastic labels (black)	5	0.005
LPFXAU105G	Label holder for LPXAU108 plastic labels (grey)	5	0.005
LPXAU109	Engravable silver plastic label to use with LPXAU100 holder	50	0.002
LPXAU108	Engravable silver plastic label to use with LPXAU105 holder	50	0.002

General characteristics LABEL DIMENSIONS - LPXAU108: 26.5x15mm/1.04x0.59" - LPXAU109: 27.5x12.1mm/1.08x0.48" - LPXAU202: 27.5x15.1mm/1.08x0.59" - LPXAU201: 27.5x15.1mm/1.08x0.59" - LPXAU203: 27.5x12.1mm/1.08x0.48"

• For actuators caps and lenses see page 7-47. ❷ For labels with text see page 7-48.

Lovato

PLatinum series

INDEX **Accessories and spare** parts for Ø22mm chromed plastic LPC... actuators LPXBO LPXA162 new LPXA200 LPXAU01 LPXAU00 LPXA130 LPXA130B LPXDIN LPXAU138 LPXAU158 LPXAU159 new LPXA185 LPXAU170 LPXAU171

Order code	Description	Qty pkg	Wt
		n°	[kg]
LPXB0	Flush or extended spring return actuator with no cap	10	0.013
LPXB30	Shrouded spring return actuator with no cap	10	0.014
	Flush or extended push-push actuator with no cap	10	0.013
LPXQL00	Illuminated flush or extended push-push actuator with no lens	10	0.013
LPXA161	Adapter for Ø30mm/1.18" holes to Ø22mm/0.87" for mushroom operators	5	0.018
LPXA162	Adapter for Ø30mm/1.18" holes to Ø22mm/0.87" for push- buttons and selector switches	5	0.018
LPXA200	Socket spanner/wrench for fixing ring fitting	1	0.003
LPXA127	Transparent diffuser for double-touch buttons	10	0.001
LPXAU00	Plastic threaded ring for actuator fixing	20	0.002
LPXAU01	Metallic threaded ring for actuator fixing	20	0.015
LPXA130	Threaded plug for unused drilled holes (grey)	10	0.007
LPXA130B	Threaded plug for unused drilled holes (black)	10	0.007
LPXDIN	Adapter for mounting buttons on DIN rail 35mm/ 1.38" wide (2 modules)	10	0.008
LPXA150	Rod for mechanical reset button (I=150mm/5.90")	10	0.006
Protections.	Rubber boot for flush buttons	10	0.006
LPXAU1400	Rubber boot for extended	10	0.000
LPXAU157	buttons Rubber boot for double and	10	0.007
LPXAU167@6	triple-touch buttons (transpar.) Rubber boot for mushroom head buttons, LPCB63/B66/	10	0.012
LPXAU158@@	B67/BL66 (transparent) Padlockable protection, Ø5-8mm/0.2-0.31" locks for buttons LPCB66/B67/B68/ BL664; for LPCB634 Ø5-6mm/0.2-0.24" locks only	10	0.005
LPXAU159@@	Shroud for buttons LPCB63/66/67/68/BL666	10	0.010
LPXA185	Yellow shroud for selectors	10	0.004
LPXAU170	Protection cover for Ø22mm/ 0.87" plastic buttons	5	0.015
LPXAU171	Protection cover for Ø22mm/ 0.87"communication interfaces	5	0.018
Label holders and			
LPXAU100	Label holder for LPXAU109 and LPXAU203 labels	50	0.001
LPXAU203	Blank label for writing	50	0.001
LPXAU109	Engravable silver plastic label to use with <u>LPXAU100</u> holder	50	0.002
LPXAU105	Label holder for LPXAU108 plastic labels	50	0.003
LPXAU108	Engravable silver plastic label to use with LPXAU105 holder	50	0.002
LPXAU102@	Legend holder for LPXAU202 paper or LPXAU201 plastic labels	50	0.003
LPXAU202	Blank paper label for writing for LPXAU102	50	0.002
LPXAU200	Transparent protection for LPXAU202 label	50	0.001
LPXAU201	Blank plastic label for engraving for LPXAU102	50	0.002

General characteristics LABEL DIMENSIONS

- LPXAU108: 26.5x15mm/1.04x0.59"

- LPXAU108: 20.3x13/mm/1.04x0.39 LPXAU109: 27.5x12.1mm/1.08x0.48" LPXAU202: 27.5x15.1mm/1.08x0.59" LPXAU201: 27.5x15.1mm/1.08x0.59"
- LPXAU203: 27.5x12.1mm/1.08x0.48".
- For actuators caps and lenses see page 7-47.
 The use of the LPXAU102 label holder with LPC... actuators does not guarantee the IP65 degree of protection.
- So For flush and extended push buttons, complete the order code by adding the digit of the required colour:
 2 (black); 3 (green); 4 (red); 5 (yellow); 6 (blue); 7 (transparent); 8 (white).
 For illuminated push buttons, add only digit 7 (transparent).
- Cannot be used when LPXAU100, LPXAU105 or LPXAU102 is fitted.
- G Cannot be used when LPXAU158 is fitted.
- G Cannot be used when LPXAU167 is fitted
- For labels with text see page 7-48.

LPXAU100

LPXAU108

LPXAU109

LPXAU105



PLatinum series

Accessories and spare parts for Ø30mm flat metal actuators, Ø22mm metal and chromed plastic actuators



INDEX



LPXA170...





LFADLIU





Order code	Description	Qty per pkg	Wt
		n°	[kg]
LPXA140	Action plug for centre contact	50	0.001
<u>LPXA170</u>	Spare standard key set for selector switches or mushroom-head buttons, key code n° 455	10	0.008
LPX A170RO	Spare key set for selector switches or mushroom head buttons	1	0.008
Flush cap for spr	ring return and push-push actu	ators.	
LPXB102	Black	10	0.002
LPXB103	Green	10	0.002
LPXB104	Red	10	0.002
LPXB105	Yellow	10	0.002
LPXB106	Blue	10	0.002
LPXB108	White	10	0.002
Extended cap for	spring return and push-push a	actuators.	
LPXB202	Black	10	0.003
LPXB203	Green	10	0.003
LPXB204	Red	10	0.003
LPXB205	Yellow	10	0.003
LPXB206	Blue	10	0.003
LPXB208	White	10	0.003
Flush lens for illu actuators.	iminated spring return and pus	h-push	
LPXBL103	Green	10	0.002
LPXBL104	Red	10	0.002
LPXBL105	Yellow	10	0.002
LPXBL106	Blue	10	0.002
LPXBL107	Transparent	10	0.002
Extended lens fo actuators.	r illuminated spring return and	push-pusl	1
LPXBL203	Green	10	0.003
LPXBL204	Red	10	0.003
LPXBL205	Yellow	10	0.003
LPXBL206	Blue	10	0.003
LPXBL207	Transparent	10	0.003

versions with different key code. Complete with the numeric code of the key. The following versions are available: 421E, 458A, 520E, 3131A, 3433E Example of complete code: LPXA170R421E.

PLatinum series



START
LPXAGB220
STOP
LPXAGB221

INDEX

AUTO - MAN

LPXAGB212

STOP-START

LPXAGB211



LPXAGB204

Order code	Text	Qty per pkg	Wt
		n°	[kg]
International labels	for pushbuttons and selec	1	es.
LPXAGB200	0	50	0.00
LPXAGB201	1	50	0.00
LPXAGB202	11	50	0.00
LPXAGB203	0-1	50	0.00
LPXAGB204	-	50	0.00
LPXAGB205	1-0-11	50	0.00
Labels for selecto	r switches.		
LPXAGB210	OFF-ON	50	0.00
LPXAGB211	STOP-START	50	0.00
LPXAE211	PAR-MAR	50	0.00
LPXAGB212	AUTO-MAN	50	0.00
LPXAGB213	MAN-AUTO	50	0.00
LPXAGB214	AUTO-O-MAN	50	0.00
LPXAGB215	MAN-O-AUTO	50	0.00
LPXAGB216	REV-0-FWD	50	0.00
LPXAI216	AVO-IND.	50	0.00
Labels for general	use.	1	
LPXAGB220	START	50	0.00
LPXAI220	MARCIA	50	0.00
LPXAE220	MARCHA	50	0.00
LPXAGB221	STOP	50	0.00
LPXAI221	ARRESTO	50	0.00
LPXAE221	PARADA	50	0.00
LPXAGB222	RESET	50	0.00
LPXAE222	REARME	50	0.00
LPXAGB223	EMERGENCY	50	0.00
	EMERGENZA	50	0.00
LPXAE223	EMERGENCIA	50	0.00
LPXAGB224	ON	50	0.00
LPXAI224	IN SERVIZIO	50	0.00
LPXAE224	EN SERVICIO	50	0.00
LPXAGB225	POWER ON	50	0.00
LPXAI225	PRESENZA TENSIONE	50	0.00
LPXAGB226	OFF	50	
LPXAGB220	FORWARD	50	0.00
-	-		
LPXAI227	AVANTI	50	0.00
LPXAGB228	REVERSE	50	0.00
LPXAI228		50	0.00
LPXAGB229	OPEN	50	0.00
LPXAI229	APERTURA	50	0.00
LPXAGB230	CLOSE	50	0.00
LPXAI230	CHIUSURA	50	0.00
LPXAGB231	RAISE	50	0.00
LPXAI231	SALITA	50	0.00
LPXAE231	SUBIDA	50	0.00
LPXAGB232	LOWER	50	0.00
LPXAI232	DISCESA	50	0.00
LPXAE232	BAJADA	50	0.00
LPXAI233	INTERVENTO TERMICO	50	0.00
LPXAGB234	FAULT	50	0.00
LPXAI235	DISINSERITO	50	0.00
LPXAGB236	LOCK	50	0.00
LPXAGB237	LEFT	50	0.00
LPXAGB238	MAN-AUTO	50	0.00

General characteristics The labels have indelible scratch-proof black lettering on metalised grey polycarbonate background (adhesive). All LPXA...2... labels have the following dimensions: 27.5x12.1mm/1.08x0.48".

Special versions Labels in different languages are available. Consult Technical support; see contact details on inside front cover.



PLatinum series

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Plastic disk for Ø22mm mushroom head pushbuttons



S .	Order code	Text	Qty per pkg	Wt
			n°	[kg]
	LPXAU112	EMERGENZA ARRESTO Ø90mm/3.5"	10	0.005
	LPXAU114	EMERGENZA ARRESTO Ø60mm/2.4"	10	0.003
	LPXAU113	EMERGENCY STOP Ø90mm/3.5"	10	0.005
	LPXAU115	EMERGENCY STOP Ø60mm/2.4"	10	0.003
,	LPXAU124	IEC60417-5638 symbol according to ISO 13850 Ø90mm/3.5"	10	0.005
1	LPXAU123	IEC60417-5638 symbol according to ISO 13850 Ø60mm/2.4"	10	0.005
	LPXAU110	Adhesive label EMERGENCY STOP (34.5x65mm/1.36x2.56") for LPB63/663/664/ 67/68/BL66 buttons	10	0.001
	LPXAU118	ARRET D'URGENCE / NOT-AUS/ PARO EMERGENCIA Ø60mm/2.4"	10	0.003

General characteristics

The disks are made of non-adhesive plastic. Plastic disks cannot be used with <u>LPXAU158</u> and LPXAU159 protection.

Ø60mm illuminated plastic disk for Ø22mm mushroom head pushbuttons

e\



LPXDAU1140...

Order code	Text	Qty per pkg	Wt
		n°	[kg]
24VAC/DC auxiliary	supply.		
LPXDAU114024	EMERGENZA ARRESTO	1	0.100
LPXDAU115024	EMERGENCY STOP	1	0.100
LPXDAU118024	ARRET D'URGENCE / NOT AUS / PARO EMERGENCIA	1	0.100
LPXDAU123024	IEC60417-5638 symbol according to ISO 13850	1	0.100
110120VAC auxilia	ary supply.		
LPXDAU114110	EMERGENZA ARRESTO	1	0.100
LPXDAU115110	EMERGENCY STOP	1	0.100
LPXDAU118110	ARRET D'URGENCE / NOT AUS / PARO EMERGENCIA	1	0.100
LPXDAU123110	IEC60417-5638 symbol according to ISO 13850	1	0.100
220240VAC auxilia	ary supply.		
LPXDAU114230	EMERGENZA ARRESTO	1	0.100
LPXDAU115230	EMERGENCY STOP	1	0.100
LPXDAU118230	ARRET D'URGENCE / NOT AUS / PARO EMERGENCIA	1	0.100
LPXDAU123230	IEC60417-5638 symbol according to ISO 13850	1	0.100

General characteristics

The main function of the illuminated plastic disk is to make the emergency button more identifiable by ensuring its operation in conditions of low visibility. The illuminated plastic disks integrate two light functions:

steady or flashing. The function choice depends on the wiring.

Operational characteristics

 Auxiliary supply voltage: 24VAC/DC, 110...120VAC or 220...240VAC

- Rated frequency: 50/60Hz
- Electrical life: >30,000 hours
- Ambient conditions:
- Operating temperature: -25...+70°C
 Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

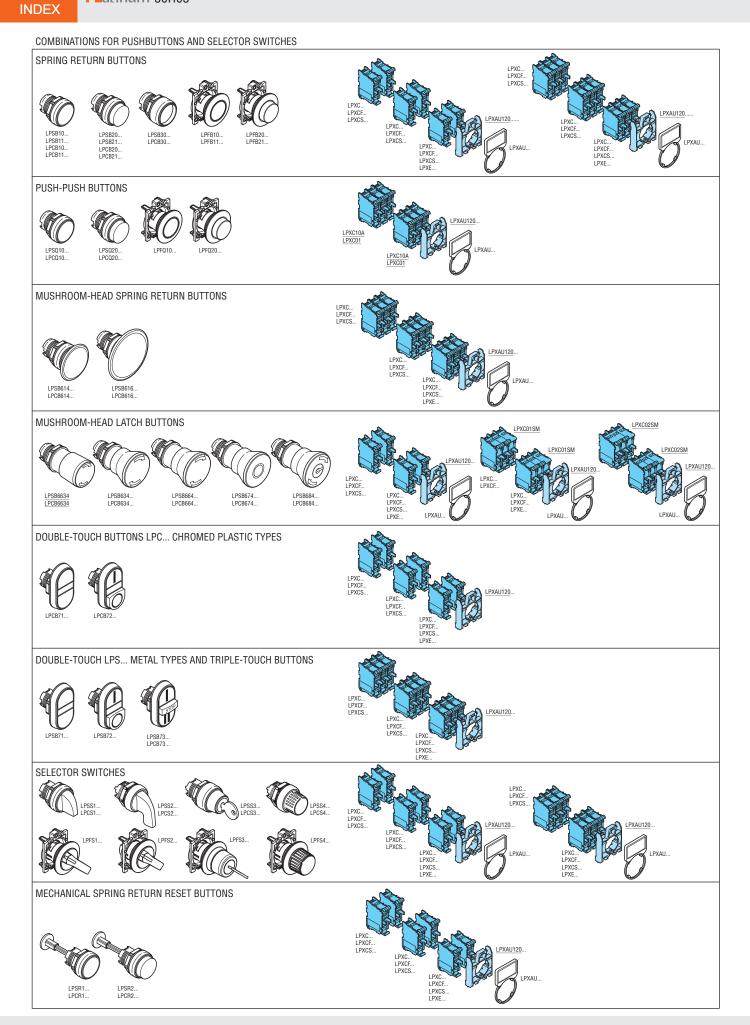
Certifications and compliance

Certifications: cULus

Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n°14

PLatinum series





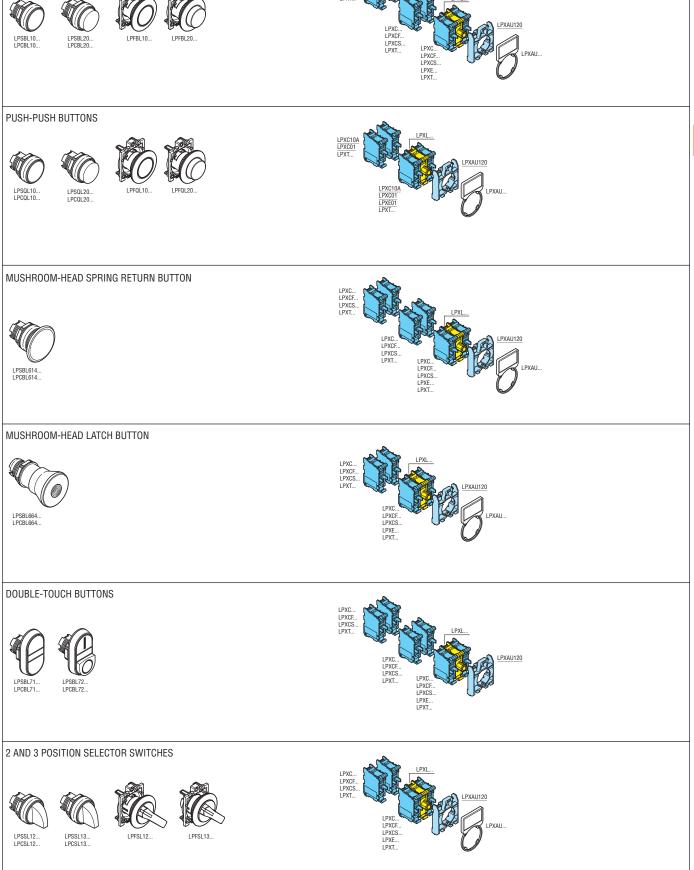
PLatinum series

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Pushbuttons and selector switches

PLatinum series plastic control stations

Without actuators Order code Description Cover colour LPZP1A5 Yellow For 1 actuator LPZP1A5P For 1 actuator Yellow new with shroud LPZP1A8 For 1 actuator Grey new LPZP1A5P

Control station cover (inside view)

LPZP2A5

Anti-loosening action

LPZP3A8 Anti-rotation indents to extend fixing ring gripping over time

Accessories

LPZXP5



LPXP01

	Order code	Description	Qty per pkg	Wt
			n°	[kg]
	LPZXP5	4-piece set yellow screw protection caps	1	0.004
ew	LPZXP8	4-piece set grey screw protection caps	1	0.004
-	LPXP01	M20 cable gland for LPZP control stations	50	0.012

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LPZP1A5

LPZP1A8P



	LPZP1A8P	For 1 actuator with shroud	Grey	1	0.127
	LPZP2A5	For 2 actuators	Yellow	1	0.152
	LPZP2A8	For 2 actuators	Grey	1	0.152
	LPZP3A8	For 3 actuators	Grey	1	0.187
	LPZP4A8	For 4 actuators	Grey	1	0.200
	LPZP5A8	For 5 actuators	Grey	1	0.240
	LPZP6A8	For 6 actuators	Grey	1	0.290
•	For each actual	ISE The second and the second and t	acts or 2 contacts ar		
				ſ	

Easy identification reference For actuator and corresponding contact and/or LED elements

A

in min

The second

 \Box

General characteristics

Wt

[kg]

0.107

0.127

0.107

Qty

per pkg

n°

1

1

1

- CONTROL STATIONS WITHOUT ACTUATOR
- 1 to 6 holes
- Compact dimensions
- Easy wiring for base-mount contact and LED elements: _ possible use of screw and spring-clamp terminal contact or LED elements on the inside surface of the cover using mounting adapter
- Numerous cable entries.

Operational characteristics

- Cable entry:
- LPZP1... knockouts:
 - M16/PG11 (1 at rear and 1 on left side) M20/M25/PG13.5/PG16 (1 each on top and bottom)
- LPZP2... knockouts:
- M16/PG11 (2 at rear)
- _ M20/PG13.5 (1 on each side)
- M20/M25/PG13.5/PG16 (1 each on top and bottom) LPZP3/P4/P5/P6 A8 knockouts:
- M16/PG11 (2 at rear)
- M20/PG13.5 (2 on each side)
- _ M20/M25/PG13.5/PG16 (1 each on top and bottom) Any mounting position allowed
- Tightening torque of cover screws Tmax = 1.8Nm/16lb.in
- Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4,4X, 12K.

Materials

Polycarbonate.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508A for types without actuators / UL508 for types complete with actuator, CSA C22.2 n° 14.



7

Pushbuttons and selector switches

Plastic complete control stations PLatinum series



With 1 actuator





new

LPZP1B8100





LPZP1B8103

LPZP1B8102



LPZP1B8104

LPZP1B8105

new





LPZP1B8300



LPZP1B8302



Order code	Description	Contacts config.	Qty per pkg	Wt
			n°	[kg]
Grey control s	tation.			
LPZP1B8100	Green spring return flush pushbutton with "I" symbol	1NO	1	0.145
LPZP1B8101	Green spring return flush pushbutton with "START" symbol	1NO	1	0.145
LPZP1B8102	Red spring return flush pushbutton with "0" symbol	1NC	1	0.145
LPZP1B8103	Red spring return flush pushbutton with "STOP" symbol	1NC	1	0.145
LPZP1B8104	Red spring return extended pushbutton with "0" symbol	1NC	1	0.146
LPZP1B8105	Red spring return extended pushbutton with "STOP" symbol	1NC	1	0.147

Order code	Description	Contacts config.	Qty per pkg	Wt
			n°	[kg]
Grey control s	tation.			
LPZP1B8300	Selector switch lever, 2 position with label "0-I"	1NO	1	0.150
LPZP1B8301	Selector switch key, 2 position with label "0-I"	1NO	1	0.179
LPZP1B8302	Selector switch key, 2 position with label "0-I"	1NO+ 1NC	1	0.189
LPZP1B8303	Selector switch lever, 3 position with label "I-0-II"	2N0	1	0.160

General characteristics

- Compact dimensions Easy wiring _
- Numerous cable entries _ _
- Contact elements base-mount on control station.

Operational characteristics

- _
- Cable entry knockouts: M16/PG11 (1 at rear and 1 on left side) M20/M25/PG13.5/PG16 (1 each on top and bottom)
- Any mounting position allowed _
- _ Tightening torque of cover screws Tmax = 1.8Nm/16lb.in _
- Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C - Degree of protection:
 - Per IEC/EN: IP66, IP67 and IP69K
 - Per UL: Type 1, 2, 3R, 4, 4X, 12K.

Materials

Polycarbonate.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508A, CSA C22.2 n° 14. 7

Pushbuttons and selector switches

Plastic complete control stations **PLatinum** series



With 1 actuat	or new	Order code	Description
		Yellow control	station.
werdency.		LPZP1B5600	Mushroom h pushbutton, to release for emergency s ISO 13850 w disk EMERGE
LPZP1B5600	LPZP1B5601		
		<u>LPZP1B5601</u>	Mushroom h pushbutton, to release for emergency s ISO 13850
		LPZP1B5602 •	Mushroom h pushbutton, to release for stopping

LPZP1B5602

LPZP1B5603



LPZP1B5605

LPZP1B5607

LPZP1B5604



LPZP1B5606

	Description	config.	per pkg	
			n°	[kg]
Yellow control	station.			
LPZP1B5600	Mushroom head pushbutton, latch, turn to release for emergency stopping, ISO 13850 with plastic disk EMERGENCY/STOP	1NC	1	0.176
LPZP1B5601	Mushroom head pushbutton, latch, turn to release for emergency stopping, ISO 13850	2NC	1	0.183
LPZP1B5602 •	Mushroom head pushbutton, latch, turn to release for normal stopping	1NC	1	0.179
<u>LPZP1B5603</u>	Mushroom head pushbutton, latch, turn to release for emergency stopping, ISO 13850	1NC	1	0.173
<u>LPZP1B5604</u>	Mushroom head pushbutton, latch, turn to release for emergency stopping, ISO 13850	1NO+ 1NC	1	0.183
LPZP1B5605	Mushroom head pushbutton, latch, turn key to release for emergency stopping, ISO 13850 with plastic disk EMERGENCY/STOP	1NC	1	0.198
LPZP1B5606	Mushroom head pushbutton, latch, turn key to release for emergency stopping, ISO 13850	2NC	1	0.205
<u>LPZP1B5607</u>	Mushroom head pushbutton, latch, turn key to release for emergency stopping, ISO 13850	1NO+ 1NC	1	0.205

General characteristics

Compact dimensionsEasy wiring

Contacts Qty Wt

- Numerous cable entries
- Contact elements base-mount on control station.

Operational characteristics

- Cable entry knockouts: M16/PG11 (1 at rear and 1 on left side) M20/M25/PG13.5/PG16 (1 each on top and bottom)
- Any mounting position allowed
- Tightening torque of cover screws Tmax = 1.8Nm/16lb.in
- Ambient conditions:
 - Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C
 - Degree of protection:
 - Per IEC/EN: IP66, IP67 and IP69K
 Per UL: Type 1, 2, 3R, 4, 4X, 12K.

Materials

_

_

Polycarbonate.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508A, CSA C22.2 nº 14.

new

Plastic complete control stations PLatinum series



. WERGENC,
LPZP1B5608

LPZP1B5609

LPZP1B5612

new



LPZP1B5610



LPZP1B5P603



LPZP1B5611

Order code	Description	Contacts config.	Qty per pkg	Wt			
			n°	[kg]			
Yellow control station.							
LPZP1B5608 •	Mushroom head pushbutton, latch, pull to release for emergency stopping, ISO 13850 with plastic disk EMERGENCY/STOP	1NC	1	0.176			
LPZP1B5609 ❶	Mushroom head pushbutton, latch, pull to release for emergency stopping, ISO 13850	2NC	1	0.183			
LPZP1B5610 ❶	Mushroom head pushbutton, latch, pull to release for emergency stopping, ISO 13850	1NO+ 1NC	1	0.183			
LPZP1B5612	Mushroom head pushbutton, latch, turn to release for normal stopping with label "STOP"	1NC	1	0.180			
Yellow control	station with protection.						
LPZP1B5P603	Mushroom head pushbutton, latch, turn to release for emergency stopping, ISO 13850	1NC	1	0.176			
LPZP1B5611 •	Mushroom head pushbutton, latch, pull to release for emergency stopping, ISO 13850 with padlockable protection	1NC	1	0.178			

General characteristics

- Compact dimensions Easy wiring _
- Numerous cable entries _
- _ Contact elements base-mount on control station.

Operational characteristics

- Cable entry knockouts:
 M16/PG11 (1 at rear and 1 on left side)
 M20/M25/PG13.5/PG16 (1 each on top and bottom)
 - Any mounting position allowed
- _ _ Tightening torque of cover screws Tmax = 1.8Nm/16lb.in
- _ Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection:
 - Per IEC/EN: IP66, IP67 and IP69K
 Per UL: Type 1, 2, 3R, 4, 4X, 12K.

Materials

Polycarbonate.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508A, CSA C22.2 n° 14.

Pushbuttons and selector switches 7

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Plastic complete control stations **PLatinum** series

With 9 actual			
With 2 actuat	new	Order code	Description
		Grey control s	tation.
		LPZP2B8900	Green spring return flush pushbutton with "I" symbol
			Red spring return flush pushbutton with "0" symbol
. •	0	LPZP2B8901	Green spring return flush pushbutton with "I" symbol
LPZP2B8900	LPZP2B8901		Red spring return extended pushbutton with "0" symbol
		LPZP2B8902	White spring return flush pushbutton with "up arrow" symbol
			Black spring return flush pushbutton with "down arrow" symbol
		LPZP2B8903	White spring return flush pushbutton with "right arrow" symbol
LPZP2B8902	LPZP2B8903		Black spring return flush pushbutton with "left arrow" symbol
		LPZP2B8904	Green spring return flush pushbutton with "I" symbol
			Mushroom head pushbutton, latch, turn to release for emergency stopping, ISO 13850
LPZP2B8904	LPZP2B5905	Yellow control	station.
		LPZP2B5905	Mushroom head pushbutton, latch, turn key to release for emergency stopping, USO 12250

General characteristics

Compact dimensions Easy wiring

Contacts Qty

per

pkg

n° [kg]

1

1

1

1

1

1

1

1

1

1

1

1

config.

1N0

1NC

1N0

1NC

1N0

1N0

1N0

1N0

1N0

1NC

1N0+

1NC

ISO 13850 Red steady pilot light

12...30VAC/DC

Wt

0.213

0.214

0.213

0.214

0.240

0.272

- _ _
- Numerous cable entries Contact elements and LED elements, base-mount on _ control station.

Operational characteristics

- Cable entry knockouts: M16/PG11 (2 at rear) M20/PG13.5 (1 on each side) M20/M25/PG13.5/PG16 (1 each on top and bottom) Any mounting position allowed
- _
- Tightening torque of cover screws Tmax = 1.8Nm/16lb.in _ Ambient conditions: • Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12K.

Materials

Polycarbonate.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508A, CSA C22.2 nº 14.

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7

Pushbuttons and selector switches

Plastic complete control stations PLatinum series



With 3 actuators



	_
	-
	6
1	Ă
	-
	3

LPZP3B8901

LPZP3B8903

LPZP3B8905

LPZP3B8907

1

new

LPZP3B8900



LPZP3B8902



LPZP3B8904



LPZP3B8906

Order code	Description	Contacts config.	Qty per pkg	Wt
<u> </u>			n°	[kg]
Grey control s LPZP3B8900	tation. Green spring return flush pushbutton with "I" symbol	1N0	1	0.270
	Red spring return flush pushbutton with "0" symbol	1NC	1	
	Red steady pilot light 1230VAC/DC	-	1	
LPZP3B8901	Green spring return flush pushbutton with "I" symbol	1NO	1	0.271
	Red spring return extended pushbutton with "0" symbol	1NC	1	
	Red steady pilot light 1230VAC/DC	-	1	
LPZP3B8902	Green spring return flush pushbutton with "I" symbol	1NO	1	0.270
	Red spring return flush pushbutton with "0" symbol	1NC	1	
	Green spring return flush pushbutton with "II" symbol	1NO	1	
LPZP3B8903	Green spring return flush pushbutton with "I" symbol	1NO	1	0.27
	Red spring return extended pushbutton with "0" symbol	1NC	1	
	Green spring return flush pushbutton with "II" symbol	1NO	1	
LPZP3B8904	White spring return flush pushbutton with "I" symbol	1NO	1	0.270
	Red spring return flush pushbutton with "O" symbol	1NC	1	
	White spring return flush pushbutton with "II" symbol	1NO	1	
LPZP3B8905	White spring return flush pushbutton with "I" symbol	1NO	1	0.27
	Red spring return extended pushbutton with "0" symbol	1NC	1	
	White spring return flush pushbutton with "II" symbol	1N0	1	
LPZP3B8906	White spring return flush pushbutton with "up arrow" symbol	1N0	1	0.270
	Red spring return flush pushbutton with "0" symbol	1NC	1	
	Black spring return flush pushbutton with "down arrow" symbol	1NO	1	
LPZP3B8907	White spring return flush pushbutton with "up arrow" symbol	1NO	1	0.27
	Red spring return extended pushbutton with "0" symbol	1NC	1	
	Black spring return flush pushbutton with "down arrow" symbol	1NO	1	

General characteristics

_

- Compact dimensions Easy wiring Numerous cable entries Contact elements and LED elements, base-mount on contract titics control station.

Operational characteristics

- Cable entry knockouts:
 M16/PG11 (2 at rear)
 M20/PG13.5 (2 on each side)
 M20/M25/PG13.5/PG16 (1 each on top and bottom)
- _ Any mounting position allowed
- Tightening torque of cover screws Tmax = 1.8Nm/16lb.in _ Ambient conditions:
- Operating temperature: -25...+70°C • Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12K.

Materials

Polycarbonate.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508A, CSA C22.2 nº 14.

Add-on blocks page 7-38

Plastic complete control stations PLatinum series

Order code

Description

INDEX

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0	1
	. 🔍
LPZP3B8908	LPZ

With 3 actuators

	-	-	
	6	•	
	(0	
1	(9	
LPZP:	3B890	19	

LPZP3B8911

new

config. per . pkg n° [kg] Grey control station. LPZP3B8908 White spring return 0.271 1N0 1 flush pushbutton with "right arrow" symbol Red spring return 1NC 1 flush pushbutton with "0" symbol Black spring return 1N0 1 flush pushbutton with "left arrow" symbol 0.272 LPZP3B8909 White spring return 1N0 1 flush pushbutton with "right arrow" symbol Red spring return 1NC 1 extended pushbutton with "0" symbol Black spring return 1N0 1 flush pushbutton with "left arrow" symbol LPZP3B8910 Green spring return 1N0 0.270 1 flush pushbutton with "I" symbol Red spring return flush pushbutton with 1NC 1 "0" symbol Green steady pilot light _ 12...30VAC/DC LPZP3B8911 Green spring return 1N0 0.271 1 flush pushbutton with "l" symbol Red spring return extended pushbutton 1NC 1 with "0" symbol Green steady pilot light 12...30VAC/DC LPZP3B8912 Green spring return 1N0 1 0.278 flush pushbutton Red spring return 1NC 1 flush pushbutton Mushroom head spring 1NC 1 return pushbutton

Contacts Qty

Wt

General characteristics

- Compact dimensions Easy wiring
- Numerous cable entries _
- Contact elements and LED elements, base-mount on _ control station

Operational characteristics

- Cable entry knockouts:
- M16/PG11 (2 at rear)
- M20/PG13.5 (2 on each side)
 M20/M25/PG13.5/PG16 (1 each on top and bottom)
- Any mounting position allowed
- Tightening torque of cover screws Tmax = 1.8Nm/16lb.in _ Ambient conditions:
 - Operating temperature: -25...+70°C Storage temperature: -40...+85°C
- Degree of protection:
- Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12K.

Materials Polycarbonate.

Certifications and compliance

Certifications obtained: cULus, EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508A, CSA C22.2 n° 14.

LPZP3B8910



LPZP3B8912

Dimensions page 7-66

Wiring diagrams page 7-69

new

Palm switches

Type LP9...



LP9S...R



LP9S...B



LP9P...R

Urder code	Description	Qty per pkg	VVt
		n°	[kg]
LP9S01R	Momentary Ø90mm/3.54" red mushroom. Contacts: 1NC	1	0.210
LP9S11R	Momentary Ø90mm/3.54" red mushroom. Contacts: 1NO+1NC	1	0.220
LP9S10B	Momentary Ø90mm/3.54" black mushroom. Contacts: 1NO	1	0.210
LP9S11B	Momentary Ø90mm/3.54" black mushroom. Contacts: 1NO+1NC	1	0.220
LP9P02R	Emergency Ø90mm/3.54" red mushroom pull-to-release. Contacts: 2NC	1	0.290
LP9P11R	Emergency Ø90mm/3.54" red mushroom pull-to-release. Contacts: 1N0+1NC	1	0.300

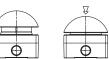
Momentary mushroom

Ouden and a Description





Emergency mushroom pull-to-release



Accessories



LP9XC..

Wt Order code Description Qty per pkg n° [kg] LP9XC100 1NO contact 1 0.010 LP9XC010 1NC contact 1 0.010

Maximum configuration: n°3 LP9XC... contact elements.

General characteristics

Otv 11/1

LOVATO Electric palm switches LP9... types are designed for machine stop and immediate service control applications. They are widely used in the most diverse applications, including amounts the forward to be application. including emergency stop for escalators, gate openers, pedestrian crossing buttons for disabled users, etc... The ergonomic design and large surface for an easy actuation with the hand, elbow or foot, ensures immediate actuation of machinery and equipment even if the operator has his hands full.

- This new range is split into two versions: - Momentary mushroom (available in grey/black or
 - grey/red);
- Emergency mushroom "pull-to-release" (available in yellow/red only).

Operational characteristics

- Cable entry (knockout version): • M20/PG13.5 (1 on each side)
- M16/PG11 (2 on the cover bttom)
- Any mounting position allowed
- _ Tightening torque of cover screws Tmax = 0.8Nm/7lb.in Ambient conditions:
- Operating temperature: -25...+75°C
- Storage temperature: -40...+85°C
- IEC/EN degree of protection: IP65.

CONTACT ELEMENTS

- Rated insulation voltage: 690V
- Rated thermal current Ith: 10A
- _ Conductivity: 5V 10mA
- _ Tightening torque of contact screws: 0.5...0.8Nm _
- Conductor cross section: 1 or 2 conductors -0.5...2.5mm²
- IEC/EN 60947-5-1 designation: A600 Q300.
- Minimum operational characteristics in AC15:

	mun	i opoi	unon	ui onu	iuotoi	101100 1	1171010	<i>.</i>	
[V]	12	24	48	120	240	400	480	500	600
[A]	6	6	6	6	3	1.9	1.5	1.4	1.2
Min	Minimum operational characteristics in DC13:								
[V]	12	2	4	48	125	250	440	500	600
[A]	3	3	}	1.5	0.55	0.27	0.15	0.13	0.1
~									

Operational characteristics in AC15: 24V 10A and 400V 4A

- Short-circuit protection fuse: max. calibre 10A gG/gL
- _ Contact resistance:: ≤25mΩ
- Operating force: \leq 2.6N _
- Mechanical life: 1,000,000 cycles.

Stroke of contact elements



Material

PC-ABS for button and control station. PA66 for plastic operator frame (LP9S...). Chrome-plated aluminium and zinc alloy (zama) for metal operator frame (LP9P...).

Compliance

Compliant with standards: IEC60947-5-1.



Metal control stations and enclosures LPZM

Enclosures with cut-outs for Ø22mm units





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LPZM2A5



LPZM3A8



LPZM6A8

. .





LPZM6CA8

LPZM4A8

LPZM4CA8





LPZM8CA8

LPZM12CA8



LPZM16CA8

Order code	Description	Cover colour	Qty per pkg	Wt
			n°	[kg]
With holes.				
LPZM1A5	For 1 actuator	Yellow	1	0.343
LPZM1A5P@	For 1 actuator with shroud	Yellow	1	0.382
LPZM1A8	For 1 actuator	Grey	1	0.349
LPZM2A5	For 2 actuators	Yellow	1	0.456
LPZM2A8	For 2 actuators	Grey	1	0.458
LPZM3A8	For 3 actuators	Grey	1	0.603
LPZM4A8	For 4 actuators	Grey	1	0.581
LPZM5A8	For 5 actuators	Grey	1	0.680
LPZM6A8	For 6 actuators	Grey	1	0.671
With multiholes.				
LPZM4CA8	For 4 actuators	Grey	1	0.570
LPZM6CA8	For 6 actuators	Grey	1	0.660
LPZM8CA8	For 8 actuators	Grey	1	1.060
LPZM12CA8	For 12 actuators	Grey	1	1.360
LPZM16CA8	For 16 actuators	Grey	1	1.650

2 It is not possible to use plastic disks in combination with enclosure with protection

General characteristics

Enclosures made of aluminium alloy suitable for pushbuttons, selector switches and pilot lights Ø22mm/0.87" . Platinum series.

Possible use of contact elements on the inside surface of the cover using the relevant mounting adapter. The thickness of the enclosure is suitable for drilling.

Up to 6 contacts can be fitted; 2 each on the left, middle and

right, one behind the other. For the possible combinations consult this chapter on the actuator pages.

Operational characteristics

- Cable entry: Ø21mm/0.83" (for M20 or PG13.5 cable gland)
- Degree of protection: Per IEC/EN: IP66 and IP67
- Per UL: Nema 4X
- Earth connection through threaded holes on the base and on the cover (screws supplied)
- Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C.

Certifications and compliance

Certifications obtained: cULus.

Compliant with standards: IEC/EN/BS 60947-5-1.

Not available for multiholes LPZM...C type.

Order codes	Dimensions (X, Y, Z) [mm (in)]	n° of rows vertical	n° of rows
LPZM1A5/A8	80x80x73 (3.15x3.15x2.87")	1	1
LPZM1A5P	80x80x108 (3.15x3.15x4.25")	1	1
LPZM2A5/A8	80x130x73 (3.15x5.12x2.87")	1	2
LPZM3A8	80x170x73 (3.15x6.69x2.87")	1	3
LPZM4A8	80x170x73 (3.15x6.69x2.87")	1	4
LPZM5A8	80x230x73 (3.15x9.05x2.87")	1	5
LPZM6A8	80x230x73 (3.15x9.05x2.87")	1	6
LPZM4CA8	80x170x73 (3.15x6.69x2.87")	2	2
LPZM6CA8	80x230x73 (3.15x9.05x2.87")	2	3
LPZM8CA8	160x160x90 (6.30x6.30x3.54")	4	2
LPZM12CA8	170x190x90 (6.69x7.48x3.54")	4	3
LPZM16CA8	190x250x90 (7.48x9.84x3.54")	4	4

Dimensions page 7-67



7

Pushbuttons and selector switches



Metal control stations and enclosures LPZM

Enclosures

-		-	
	0-		

LPZM1E8

LPZM3E8

LPZM1E5



LPZM2E8

Order code	Dimensions (X, Y, Z)	Cover colour	Qty per pkg.	Wt.
	[mm (in)]		n°	[kg]
LPZM1E5	80x80x73 (3.15x3.15x2.87")	Yellow	1	0.346
LPZM1E8	80x80x73 (3.15x3.15x2.87")	Grey	1	0.352
LPZM2E8	80x130x73 (3.15x5.12x2.87")	Grey	1	0.462
LPZM3E8	80x170x73 (3.15x6.69x2.87")	Grey	1	0.600
LPZM4E8	80x230x73 (3.15x9.05x2.87")	Grey	1	0.680
LPZM5E8	160x160x90 (6.30x6.30x3.54")	Grey	1	1.100
LPZM6E8	170x190x90 (6.69x7.48x3.54")	Grey	1	1.400
LPZM7E8	190x250x90 (7.48x9.84x3.54")	Grey	1	1.700

General characteristics

Enclosures made of aluminium alloy suitable for pushbuttons, selector switches and pilot lights Ø22mm/0.87" Platinum series.

Possible use of contact elements on the inside surface of the cover using the relevant mounting adapter. The thickness of the enclosure is suitable for drilling.

Up to 6 contacts can be fitted; 2 each on the left, middle and

right, one behind the other.

For the possible combinations consult this chapter on the actuator pages.

Operational characteristics

- Degree of protection: Per IEC/EN: IP66 and IP67
- Per UL: Nema 4X
- Earth connection through threaded holes on the base and on the cover (screws supplied)
- Ambient conditions:
- Operating temperature: -25...+70°C • Storage temperature: -40...+85°C.

Certifications and compliance Certifications obtained: cULus.

Compliant with standards: IEC/EN/BS 60947-5-1.

Order code	Max. operator number	n° of rows vertical	n° of rows horizontal
LPZM1E5/E8	1	1	1
LPZM2E8	2	1	2
LPZM3E8	4	1	3
LPZM4E8	6	1	5
LPZM5E8	8	4	2
LPZM6E8	12	4	3
LPZM7E8	16	4	4

LPZM5E8

LPZM6E8

LPZM4E8



LPZM7E8

PLatinum series dimensions [mm (in)]



INDEX

39")

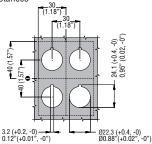
LPXAU120M WITH CONTACT ELEMENTS

Flush pushbutton with screw terminal contact or LED or test elements

Flush pushbutton with Faston contact elements

67.5 (2.66 10 (0.39") 10.39" -10 (0.39") חט-ו י? ח-0.04 (0. Ć, ELEMP - 43-(1.69") - 43-(1.69 n°1 LPXAU120N (possible LPXT...) n°1 I PXC ELEMENTS n°1 LPXG... n°1 LPX... in middle nos on LPX<u>AU120 a</u>

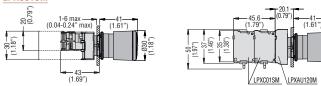
Drillings - Minimum recommended distances

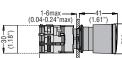


• When Faston contacts are used, the vertical pitch must be 85mm minimum.

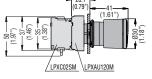
Mushroom-head pushbutton with auto-monitor contacts LPXC01SM



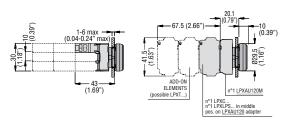


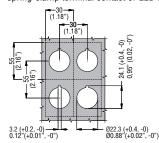


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Flush pushbutton with test element and spring-clamp terminal contact or LED elements LPXCS... - LPXLPS...





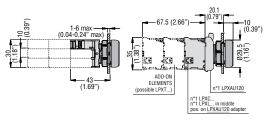
Flush pushbutton with Faston contact elements

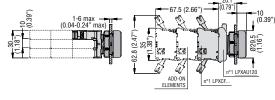
Drillings - Minimum recommended distances with spring-clamp terminal contact or LED elements

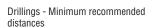
LPXC02SM

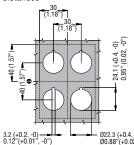
LPXAU120 WITH CONTACT ELEMENTS

Flush pushbutton with screw terminal contact or LED or test elements

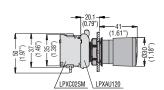








Ø22.3 (+0.4, -0) Ø0.88"(+0.02", -0") When Faston contacts are used, the vertical pitch must be 85mm minimum.



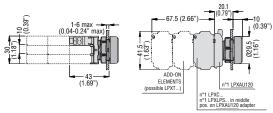
Flush pushbutton with test element and spring-clamp terminal contact or LED elements LPXCS... - LPXLPS...

Mushroom-head pushbutton with auto-monitor contacts

(1.61")

1-6max _____ (0.04-0.24"max)

43-

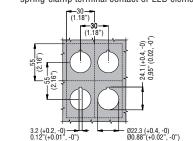


Drillings - Minimum recommended distances with spring-clamp terminal contact or LED elements

LPXC02SM

(0.04-0.24"max)

(1.61")



1.18]

(1 61)

LPXC01SM LPXAU120

LPXC01SM

åå

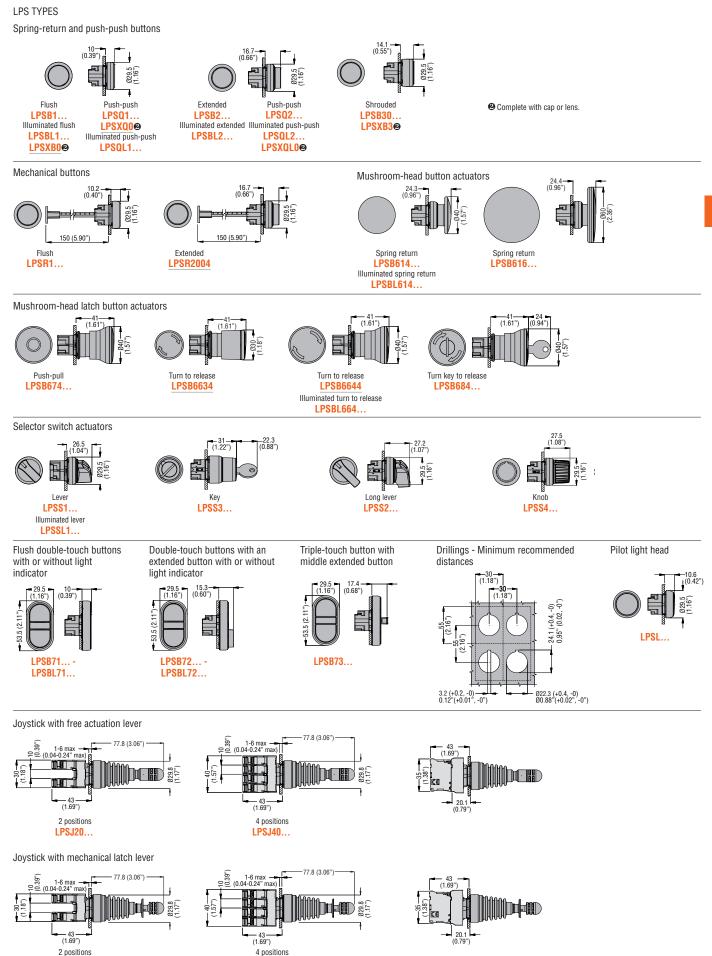
Lovato

7

PLatinum series dimensions [mm (in)]

LPSJ21...

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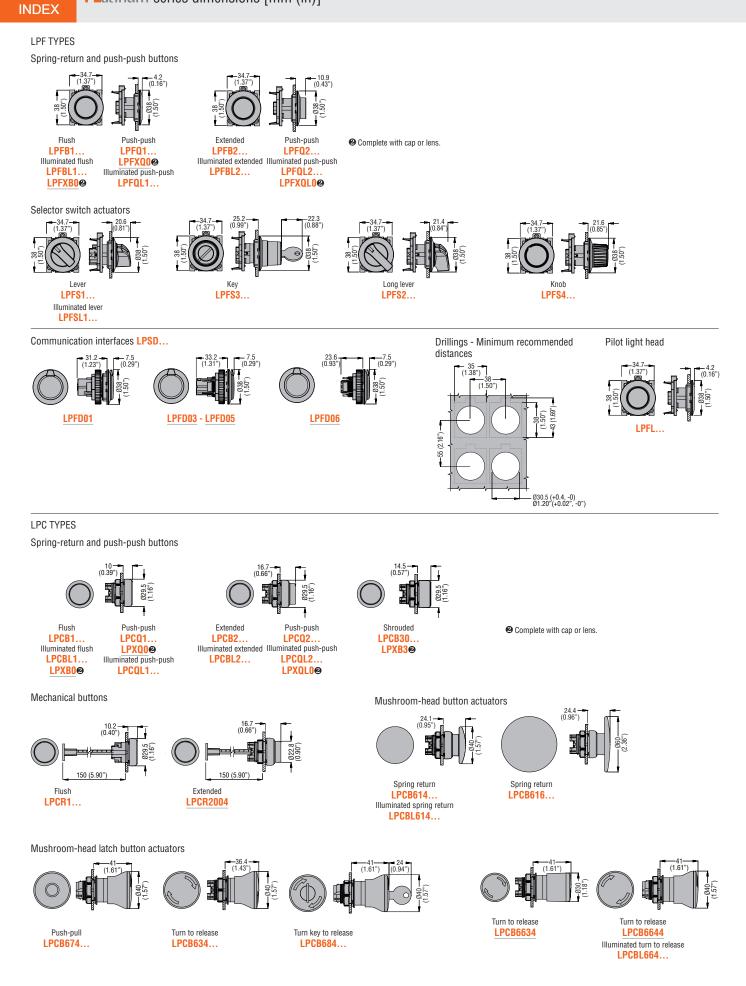


LPSJ41...

7 Pushbuttons and selector switches



PLatinum series dimensions [mm (in)]

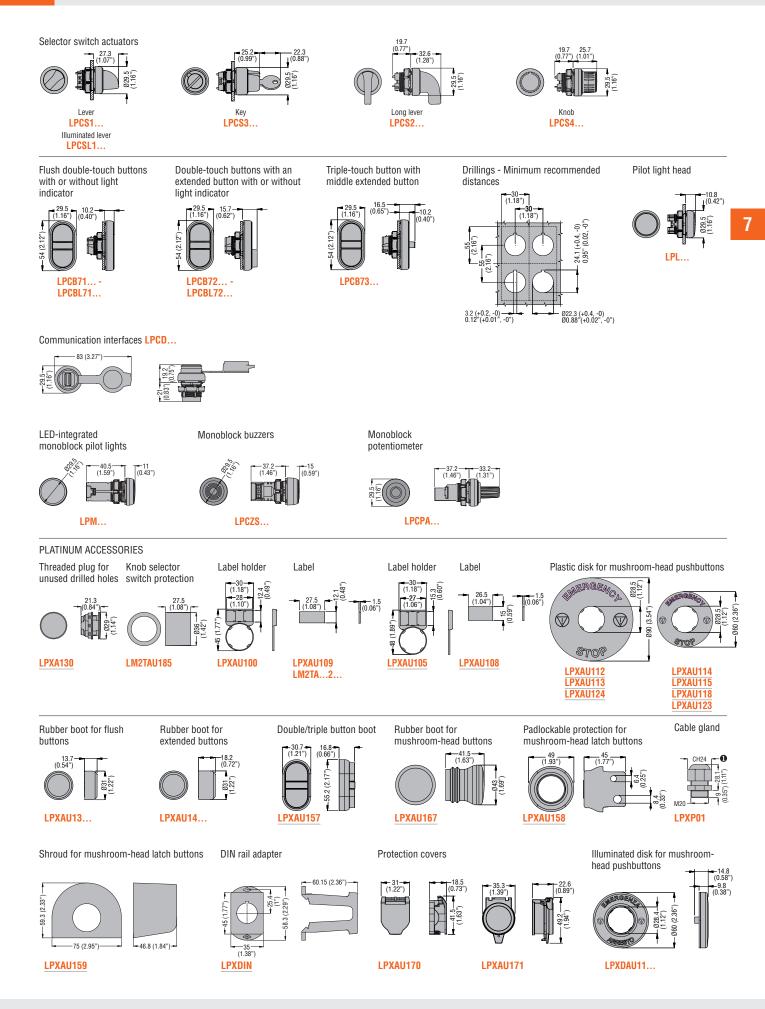


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PLatinum series dimensions [mm (in)]





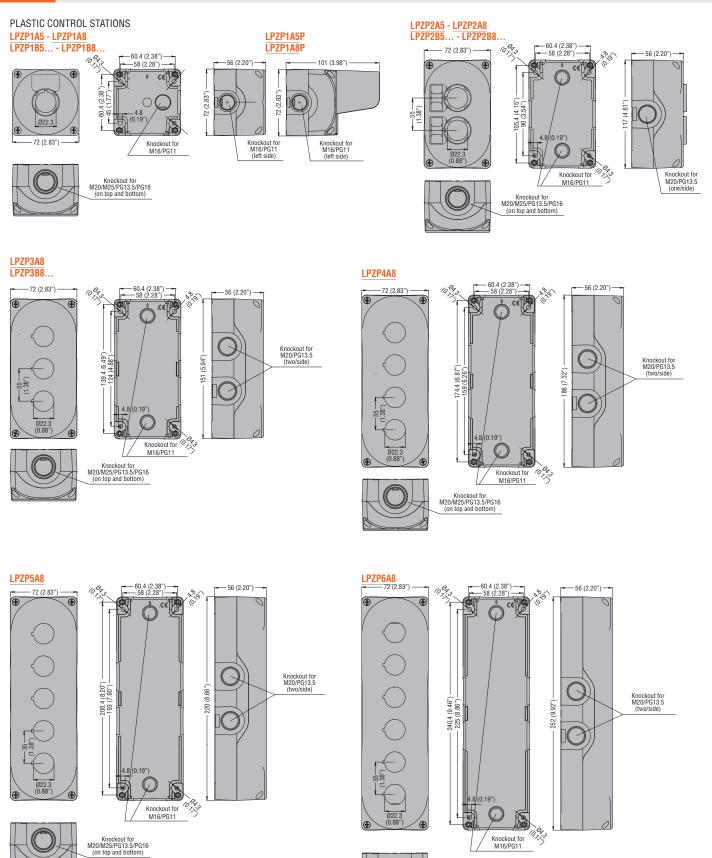
Pushbuttons and selector switches

PLatinum series dimensions [mm (in)]

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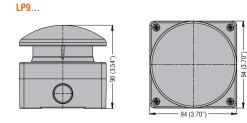
Knockout for M20/M25/PG13.5/PG16 (on top and bottom)



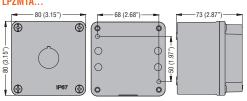
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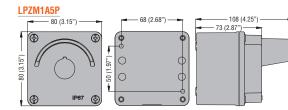
PLatinum series dimensions [mm (in)]

PALM SWITCHES

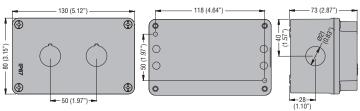


METAL CONTROL STATIONS LPZM1A...

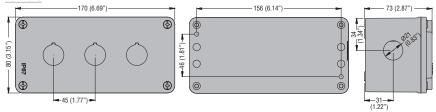




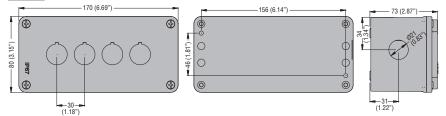
LPZM2A...



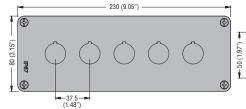
LPZM3A8

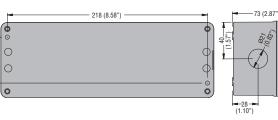


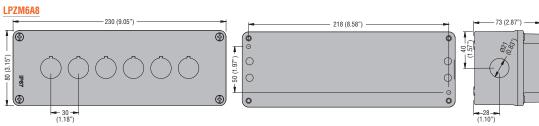
LPZM4A8



LPZM5A8





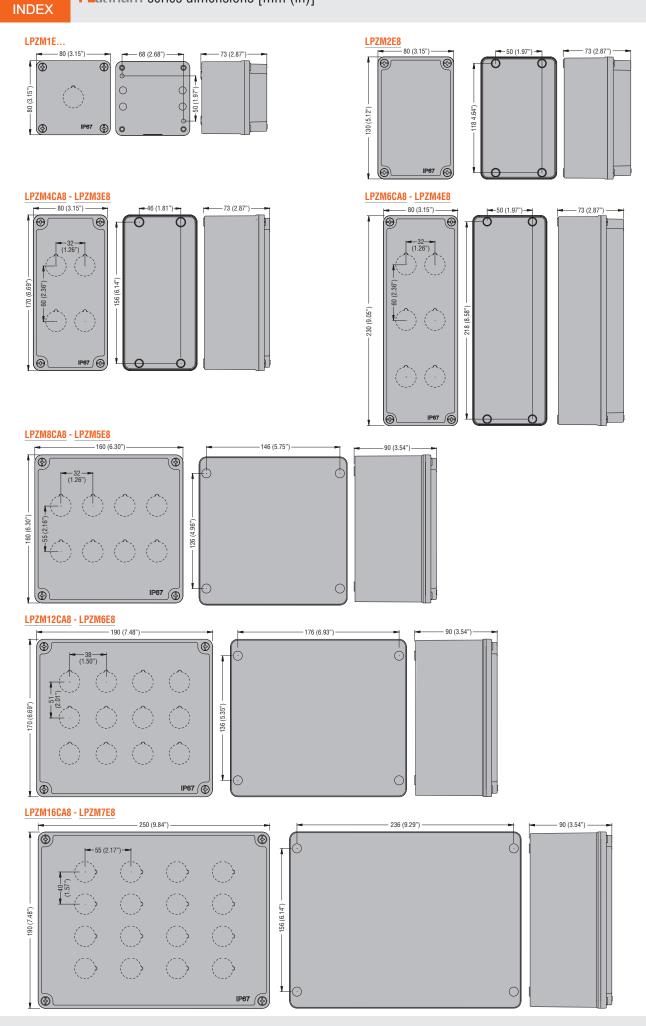


7

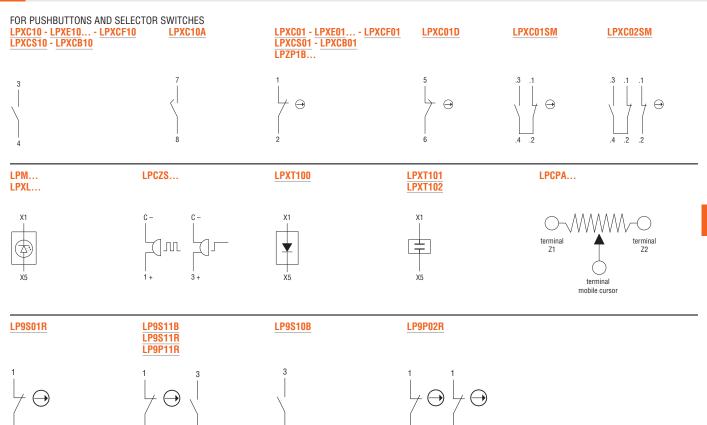
7 Pushbuttons and selector switches



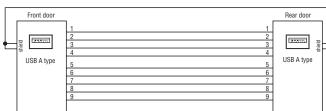
PLatinum series dimensions [mm (in)]



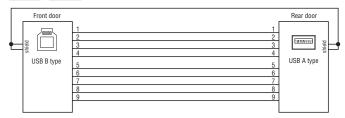
Wiring diagrams



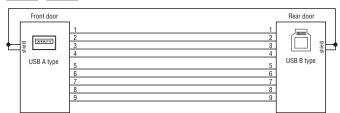
LPFD01 - LPCD01



LPFD05 - LPCD05



LPFD03 - LPCD03



LPFD06 -LPCD06

