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



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.
 - ovato electric



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.



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

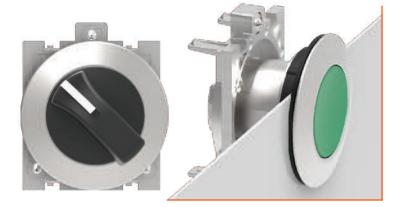
 USAGE AT EXTREME TEMPERATURE CONDITIONS

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

CERTIFICATIONS: cULus, EAC, RINA and CCC.



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.



7 Pushbuttons and selector switches PLatinum series



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.

Ø30mm flat metal

49mm

4mm

43mm





Ø22mm metal

Ø22mm chromed plastic

PLatinum series





MONOBLOCK BUZZERS



- Continuous or pulse-tone monoblock buzzers in a single
- 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
- USB type 3.0 (backward compatible
- Versions complete with cable.



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



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

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
- mounting to the base) 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** ατλτιο



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

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
V	LPSB108	White	5	0.031
	Extended (without	t mounting adapter). S	pring 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 mounting adapter). Push on-push off.				
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 (without mounting adapter). Push on-push off.			
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

1.40

An aluminium and zinc allov (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 = 0.8Nm/7lb.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 LPXAU120M mounting adapte	
(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.

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



Pushbuttons and selector switches

PLatinum series Ø22mm metal

Mechanical reset buttons, complete unit, spring return



Pushbutton actuators,

LPSR1196



		per pkg	
		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
Extended (5.2mm/ Complete with sha	0.2" stroke). Adjustable len ft (without mounting adap	igth 0-150m ter). Spring	nm/5.9". 1 return.
LPSR2004	Red	1	0.046

Colour

Qty

.

Wt

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

Order code Symbol Wt Colour Qty per pkg spring return, with symbol n° [kg] Flush (without mounting adapter). Spring return. LPSB1102 0 Black 5 0.031 LPSB1104 Red 5 0.031 LPSB1113 I Green 5 0.031 LPSB1118 White 5 0.031 LPSB1123 Ш Green 0.031 1 LPSB1128 White 0.031 1 LPSB1132 STOP Black 0.031 1 LPSB1134 Red 0.031 5 new LPSB1142 Black 0.031 5 0 LPSB1148 White 0.031 5 Black LPSB1152 0.031 5 2 LPSB1158 White 0.031 5 LPSB1163 START 0.031 Green 5 White LPSB1168 0.031 1 LPSB1176 0.031 R Blue 1 LPSB1178 White 1 0.031 LPSB1196 RESET Blue 5 0.031 LPSB1502 Black 5 0.031 LPSB1512 ╼ Black 5 0.031 Extended (without mounting adapter). Spring return LPSB2102 0 Black 0.033 5 LPSB2104 Red 5 0.033 LPSB2132 STOP Black 0.033 1 Red 0.033 5 mbol can be used to indicate right or left.

mbol can be used to indicate up or down.

Pushbutton actuators, spring return special sym



LPSB.

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
LPSB00350	AUTO	6	50	0.033
LPSB00220	/	0	50	0.033
LPSB00230		0	50	0.033
Nata far ether sumbals and name 7, 25				

- 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.
- 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 = 0.8Nm/7lb.in). Actuators latch onto the mounting adapter by simple rotation

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

Termination Type 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. 1N0 LPXC10 Screw

LPXCF10	Faston
LPXCS10	Spring clamp
LPXC10A	Screw
LPXC01	Screw
LPXCF01	Faston
LPXCS01	Spring clamp
LPXC01D	Screw
	LPXC510 LPXC10A LPXC01 LPXCF01 LPXC501

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.

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 I P7 control station

1NO	LPXCB10	Screw
1NC	LPXCB01	Screw

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

Certifications and compliance

Certifications: cULus.

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

With "BESET" caption on actuator

Order code





LPSB21...

new

LPS	B2134
0 Arr	ow syn
Ø Arr	ow syn

n, with	46
bols	
NOID	Spr
	LPS
	LPS

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.

- Products available on specific request for a minimum multiple quantity

PLatinum series Ø22mm metal

Mushroom head pushbutton actuators



LPSB674...





ne\

LPSB6644



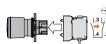
Normal operation of auto-monitor contact mounted on surface or on cover of control stations

.3 .1 .4 .2

.4 .2









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

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.

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 ac		
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
LPSB6844RO	Red	1	0.088
• Versions with different k Complete with the nume The following versions a	ric code of the key	458A 520E 3131	IA 3433F

0.1

0.

The following versions are available: 421E, 458A, 520E, 3131A, 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 LPXC01SM 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.



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 change state. With contact type LPXC02SM (2NC)

> 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

1.40

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 = 0.8Nm/7lb.in) Actuators latch onto the mounting adapter by simple rotation.

Contact elements

See page 7-37 and 7-38.

Termination Type 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 c	iomoni can bo	instancu.
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. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

Add-on blocks page 7-36 to 42

7-8

page 7-44 to 51

Dimensions

page 7-63

Accessories and spare parts

4 2 2

nev

Order code

PLatinum series Ø22mm metal

Double-touch actuators, spring return



LPSB71



Order code	Colour	Symbols	Qty per pkg	Wt
			n°	[kg]
Two flush pushbu Both spring retur		mounting	adapter).	
10007112	Black/Dod		5	0.025

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

Symbols

Qty

ner nko

Wt

Triple-touch actuators, spring return



LPSB73..

			per pkg	
			n°	[kg]
	One middle extended buttons (without mounting adapter). Spring return.			
	LPSB7345	I	5	0.035
		STOP		
		11		
	LPSB7355	1	5	0.035
		STOP		
ew		¥		
	LPSB7365		5	0.035
		STOP		
		←		
	LPSB7375	X	5	0.035
		STOP		
		STUP		
		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 = 0.8Nm/7lb.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.

LPXC10	Screw
LPXCF10	Faston
LPXCS10	Spring clamp
LPXC10A	Screw
LPXC01	Screw
LPXCF01	Faston
LPXCS01	Spring clamp
LPXC01D	Screw
n page 7-38.	control station base. contacts need to be fitted, nt.
	LPXCF10 LPXCS10 LPXC10A LPXC01 LPXCF01 LPXCS01 LPXCS01 LPXC01D pes snap into LPZP n page 7-38. OUCH actuators, 2

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

page 7-63

Pushbuttons and selector switches

Order code

Order code

LPSS220

LPSS221

LPSS230

LPSS231

PLatinum series Ø22mm metal

Selector switch actuators lever



LPSS1.

nev	

		positions	per pkg		
			n°	[kg]	
	2 positions (without mounting adapter).				
	LPSS120	\sim	5	0.042	
	LPSS121	∇	5	0.042	
v	3 positions (without mounting adapter).				
•	LPSS130	\checkmark	5	0.042	
	LPSS131	\bigcirc	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

V

 $\langle D \rangle$

Type of

Qty

Qty

n°

5

5

5

5

per pkg

Wt

Wt

[kg]

0.045

0.045

0.045

0.045

Selector switch actuators long lever



new

LPSS2...

Selector switch actuators key (Ronis)



LPSS3...



LPSS232 LPSS233	$\langle \!$	5	0.045
1 000000		0	0.045
LF 00200	$\sqrt{2}$	5	0.045
0	-		1.40
Order code	Type of positions	Qty per pkg	Wt
	positions	n°	[kg]
2 positions (without	ut mounting adapter).		[[49]
	•	5	0.065
		1	0.065
LPSS321	• •	5	0.065
LPSS321R0		1	0.065
LPSS340	•	5	0.065
LPSS340RO		1	0.065
	ut mounting adapter).		0.000
LPSS330	•	5	0.065
	\vee	1	0.065
LPSS331		5	0.065
LPSS331RO		1	0.065
LPSS332@	•	5	0.065
LPSS332R00		1	0.065
LPSS333@	•	5	0.065
LPSS333R00		1	0.065
LPSS350	C •	5	0.065
LPSS350RO		1	0.065
LPSS360	• >	5	0.065
LPSS360RO	-	1	0.065
LPSS370@	(•)	5	0.065
LPSS370R00	1 1	1	0.065
LPSS380@	<u>.</u>	5	0.065
		1	0.065
LPSS380R00			
LPSS380R00	•	5	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.

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 = 0.8Nm/7lb.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
TNU		SCIEW
	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. Compliant with standards: IEC/EN/BS 60947-1. IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.

7-10

Dimensions page 7-63



Pushbuttons and selector switches

PLatinum series Ø22mm metal

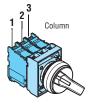
Selector switch actuators knob

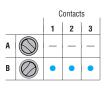


	Order code	Type of positions	Qty per pkg	Wt	
			n°	[kg]	
	2 positions (withou	t mounting adapter).			
	LPSS420	\sim	5	0.042	
	LPSS421	\sim	5	0.042	
-	3 positions (withou	oositions (without mounting adapter).			
	LPSS430	\checkmark	5	0.042	
	LPSS431	$\langle \hat{\nabla} \rangle$	5	0.042	
	LPSS432		5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

Contact activation

2-position selector switch





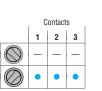
nev

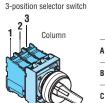
2-position selector switch

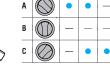
1 2 	Column

A

В







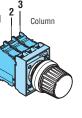
Contacts

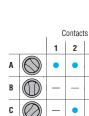
2 3

3

1

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 = 0.8Nm/7lb.in). Actuators latch onto the mounting adapter by simple rotation.

Contact elements

See page 7-37 and 7-38.

1 0	
Туре	Termination
Front-mount types snap onto LPX	
(to purchase separately). Up to 6	contacts can be fitted:
2 each on the left, middle and right	nt or 3 each on the left and
right, one behind the other. The L	PXAU120M mounting
adapter can also be fitted internal	ly to the cover of the LPZ
control station with up to 3 alam	ante nar actuator

control station	itroi 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 the LPZ cont		the adapter when used with
1NO		LPXCB10	Screw

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

Screw



LPXCB01

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

1NC

Maintained position.

Spring return position. 5

Rotation angles

2 positions



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.



Add-on blocks page 7-36 to 42

LPSBL207

nev

PLatinum series Ø22mm metal

Illuminated button actuators, spring return



LPSBL10...



LPSBL20...

Illuminated push-push button actuators



LPSQL10...



Illuminated mushroom

head button actuators

LPSQL20...

Qty Order code Colour Wt per pkg n° [kg] Flush (without mounting adapter). Spring return. 0.030 LPSBL103 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 m Push on-push off			
	LPSQL1030	Green	5	0.030
	LPSQL1040	Red	5	0.030
	LPSQL1050	Yellow	5	0.030
	LPSQL106	Blue	5	0.030
	LPSQL107	Transparent	5	0.030
	Extended (withou Push on-push off	t mounting adapter).		
	LPSQL2030	Green	5	0.032
	LPSQL2040	Red	5	0.032
	LPSQL2050	Yellow	5	0.032
	LPSQL2060	Blue	5	0.032
	LPSQL207	Transparent	5	0.032

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/1.57" (w	rithout mounting adapte	er).	
LPSBL6143	Green	5	0.040
LPSBL6144	Red	5	0.040
	1	_	

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.				
LPSBL6643	Green	1	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 = 0.8Nm/7lb.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 onto LPX	AU120M mounting adapter
(to purchase separately).	
For types LPSBL1/BL2/BL61 up	to 6 contacts can be fitted:
3 each on the left and right, one b	behind the other.
For types LPSBL66 up to 4 con	tacts can be fitted:
2 each on the left and right, one b	behind the other.
The LPXAU120M mounting adapt	ter 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.

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

LPSBL664...

7-12

LPSBI 614....

new

Pushbuttons and selector switches

new

new

PLatinum series Ø22mm metal

Double-touch actuators, spring return, white indicator



LPSBL71...



LPSBL72...

Order code	Colour	Symbol	Qty per pkg	Wt
			n°	[kg]
Two flush pushbuttons (without mounting adapter).				

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

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

	1 3			
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

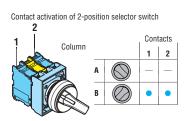
14/1

Outer and a local

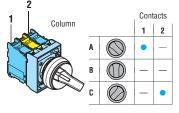
Illuminated selector switch actuators



LPSSL1...



Contact activation of 3-position selector switch



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 LPSSL1213 Green 5 0.030 LPSSL1214 Red 1 0.030 LPSSL1215 Yellow 1 0.030 LPSSL1216 Blue 5 0.030 LPSSL1218 White 5 0.030 LPSSL1303 Green 1 0.030 LPSSL1304 Red ✓ 5 0.030 LPSSL1305 Yellow ✓ 5 0.030 LPSSL1306 Blue ✓ 5 0.030 LPSSL1308 White 5 0.030 5 0.030 LPSSL1318 White 5 0.030 5 0.030 LPSSL1318 White 5 0.030 1	Order code	Colour	Type of positions	Qty per pkg	Wt
LPSSL1203 Green 5 0.030 LPSSL1205 Yellow 5 0.030 LPSSL1206 Blue 5 0.030 LPSSL1206 Blue 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 LPSSL1303 Green 1 0.030 LPSSL1304 Red ✓ 5 0.030 LPSSL1305 Yellow 5 0.030 5 0.030 LPSSL1306 Blue 5 0.030 5 0.030 LPSSL1313 Green ✓ 5 0.030 5 0.030 LPSSL13138 White 5 0.030				n°	[kg]
LPSSL1204 Red 5 0.030 LPSSL1205 Yellow 5 0.030 LPSSL1206 Blue 5 0.030 LPSSL1208 White 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 LPSSL1303 Green 1 0.030 LPSSL1304 Red ✓ 5 0.030 LPSSL1305 Yellow 5 0.030 5 0.030 LPSSL1306 Blue 5 0.030 5 0.030 LPSSL1306 Blue 5 0.030 5 0.030 LPSSL1313 Green 5 0.030 5 0.030 LPSSL131314 Red 1 <	2 positions (wit	hout mounting a	dapter).		
LPSSL1205 Yellow 5 0.030 LPSSL1206 Blue 5 0.030 LPSSL1208 White 5 0.030 LPSSL1213 Green 5 0.030 LPSSL1213 Green 5 0.030 LPSSL1213 Green 5 0.030 LPSSL1214 Red 1 0.030 LPSSL1215 Yellow 1 0.030 LPSSL1216 Blue 1 0.030 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 5 0.030 LPSSL1318 White 5 0.030 5 0.030 LPSSL1318 White 5 0.030 1 0.030 LPSSL1323 Green ✓ <t< td=""><td>LPSSL1203</td><td>Green</td><td></td><td>5</td><td>0.030</td></t<>	LPSSL1203	Green		5	0.030
LPSSL1206 Blue 5 0.030 LPSSL1208 White 5 0.030 LPSSL1213 Green 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 Spositions (without mounting adapter). LPSSL1303 Green √ LPSSL1304 Red √ 5 0.030 LPSSL1305 Yellow √ 5 0.030 LPSSL1306 Blue 5 0.030 5 0.030 LPSSL1306 Blue 5 0.030 5 0.030 LPSSL1308 White 5 0.030 5 0.030 LPSSL1318 White 5 0.030 1 0.030 LPSSL1318 White 5 0.030 1 0.030	LPSSL1204	Red	\sim	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 Spositions (without mounting adapter). 5 0.030 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 5 0.030 LPSSL1313 Green √ 5 0.030 5 0.030 LPSSL1318 White 5 0.030 1 0.030 1 0.030 LPSSL1318 White 5 0.030 1 0.030 1 0.030 1 0.030 <td>LPSSL1205</td> <td>Yellow</td> <td></td> <td>5</td> <td>0.030</td>	LPSSL1205	Yellow		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 (without mounting adapter). LPSSL1303 Green 5 0.030 LPSSL1304 Red ✓ 5 0.030 LPSSL1305 Yellow 5 0.030 LPSSL1306 Blue ✓ 5 0.030 LPSSL1306 Blue ✓ 5 0.030 LPSSL1308 White 5 0.030 5 0.030 LPSSL1313 Green ✓ 5 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030	LPSSL1206	Blue		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 (without mounting adapter). LPSSL1303 Green √ LPSSL1304 Red √ 5 0.030 LPSSL1305 Yellow 5 0.030 LPSSL1306 Blue √ 5 0.030 LPSSL1306 Blue 5 0.030 LPSSL1313 Green √ 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1318 White 5 0.030 LPSSL1318 Yellow 1 0.030 LPSSL1323 Green 5 0.030 LPSSL1324 Red 1 0.030 LPSSL1325 Yellow 1 0.030 LPSSL1326 Blue 5 0.030 LPSSL1333 Green	LPSSL1208	White		5	0.030
LPSSL1215 Yellow 1 0.030 LPSSL1216 Blue 1 0.030 LPSSL1218 White 5 0.030 3 positions (without mounting adapter). LPSSL1303 Green 5 0.030 LPSSL1303 Green √ 5 0.030 LPSSL1303 Green √ 5 0.030 LPSSL1304 Red √ 5 0.030 LPSSL1305 Yellow 5 0.030 LPSSL1306 Blue 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1314 Red √ 5 0.030 LPSSL1315 Yellow 1 0.030 1 0.030 LPSSL1316 Blue 5 0.030 1 0.030 LPSSL1323 Green 5 0.030 1 0.030 LPSSL1324 Red 1 0.030 1 0.030 LPSSL1326 Blue 5	LPSSL1213	Green		5	0.030
LPSSL1216 Blue 1 0.030 LPSSL1218 White 5 0.030 3 positions (without mounting adapter). LPSSL1303 Green √ 5 0.030 LPSSL1303 Green √ 5 0.030 LPSSL1303 Green √ 5 0.030 LPSSL1304 Red √ 5 0.030 LPSSL1305 Yellow √ 5 0.030 LPSSL1306 Blue 5 0.030 LPSSL1313 Green √ 5 0.030 LPSSL1313 Green √ 5 0.030 LPSSL1314 Red √ 1 0.030 LPSSL1316 Blue 1 0.030 1 0.030 LPSSL1318 White 5 0.030 1 0.030 LPSSL1323 Green √ 5 0.030 1 0.030 LPSSL1324 Red √ 5 0.030 1	LPSSL1214	Red	\mathbf{n}	1	0.030
LPSSL1218 White 5 0.030 3 positions (without mounting adapter). LPSSL1303 Green 5 0.030 LPSSL1303 Green ✓ 5 0.030 LPSSL1303 Green ✓ 5 0.030 LPSSL1303 Green ✓ 5 0.030 LPSSL1304 Red ✓ 5 0.030 LPSSL1305 Yellow 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1314 Red ✓ 1 0.030 LPSSL1315 Yellow 1 0.030 1 0.030 LPSSL1316 Blue 1 0.030 1 0.030 LPSSL1323 Green ✓ 5 0.030 LPSSL1324 Red ✓ 1 0.030 LPSSL1325 Yellow 1 0.030 1 0.030 LPSSL1326 Blue	LPSSL1215	Yellow		1	0.030
3 positions (without mounting adapter). LPSSL1303 Green 5 0.030 LPSSL1304 Red ✓ 5 0.030 LPSSL1305 Yellow 5 0.030 LPSSL1306 Blue ✓ 5 0.030 LPSSL1306 Blue ✓ 5 0.030 LPSSL1306 Blue 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1313 Green ✓ 5 0.030 LPSSL1315 Yellow 1 0.030 1 0.030 LPSSL1316 Blue 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 1 0.030 <td>LPSSL1216</td> <td>Blue</td> <td></td> <td>1</td> <td>0.030</td>	LPSSL1216	Blue		1	0.030
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 LPSSL1308 White 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1314 Red 1 0.030 LPSSL1315 Yellow 1 0.030 LPSSL1315 Yellow 1 0.030 LPSSL1315 Yellow 1 0.030 LPSSL1323 Green 5 0.030 LPSSL1324 Red 1 0.030 LPSSL1325 Yellow 1 0.030 LPSSL1326 Blue 1 0.030 LPSSL1333 Green 5 0.030 LPSSL1334 Red 1 0.030 LPSSL1335 Yellow 5 0.030 LPSSL1335 Ye	LPSSL1218	White		5	0.030
LPSSL1304 Red 5 0.030 LPSSL1305 Yellow 5 0.030 LPSSL1306 Blue 5 0.030 LPSSL1306 Blue 5 0.030 LPSSL1308 White 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1314 Red 1 0.030 LPSSL1315 Yellow 1 0.030 LPSSL1316 Blue 1 0.030 LPSSL1323 Green 5 0.030 LPSSL1324 Red 5 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 </td <td>3 positions (wit</td> <td>hout mounting a</td> <td>dapter).</td> <td></td> <td></td>	3 positions (wit	hout mounting a	dapter).		
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 LPSSL1313 Green 5 0.030 LPSSL1315 Yellow 1 0.030 LPSSL1316 Blue 1 0.030 LPSSL1318 White 5 0.030 LPSSL1323 Green 5 0.030 LPSSL1323 Green 5 0.030 LPSSL1325 Yellow 1 0.030 LPSSL1326 Blue 1 0.030 LPSSL1328 White 5 0.030 LPSSL1333 Green 5 0.030 LPSSL1333 Green 5 0.030 LPSSL1334 Red 1 0.030 LPSSL1335 Yellow 1 0.030 LPSSL1336 B	LPSSL1303	Green		5	0.030
LPSSL1306 Blue 5 0.030 LPSSL1308 White 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1313 Green 5 0.030 LPSSL1314 Red 1 0.030 LPSSL1315 Yellow 1 0.030 LPSSL1316 Blue 1 0.030 LPSSL1323 Green 5 0.030 LPSSL1324 Red 1 0.030 LPSSL1325 Yellow 5 0.030 LPSSL1326 Blue 1 0.030 LPSSL1328 White 5 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	LPSSL1304	Red	\vee	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 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 LPSSL1333 Green 5 0.030 LPSSL1333 Green 5 0.030 LPSSL1334 Red 1 0.030 LPSSL1335 Yellow 1 0.030 LPSSL1336 Blue 1 0.030	LPSSL1305	Yellow		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 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 LPSSL1335 Yellow 1 0.030 LPSSL1336 Blue 1 0.030	LPSSL1306	Blue		5	0.030
LPSSL1314 Red 1 0.030 LPSSL1315 Yellow 1 0.030 LPSSL1316 Blue 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 LPSSL1335 Yellow 1 0.030 LPSSL1336 Blue 1 0.030	LPSSL1308	White		5	0.030
LPSSL1315 Yellow 1 0.000 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 LPSSL1333 Green 5 0.030 LPSSL1334 Red 1 0.030 LPSSL1335 Yellow 1 0.030 LPSSL1336 Blue 1 0.030	LPSSL1313	Green	dD.	5	0.030
LPSSL1316 Blue 1 0.030 LPSSL1318 White 5 0.030 LPSSL1323 Green 5 0.030 LPSSL1323 Green 1 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	LPSSL1314	Red		1	0.030
LPSSL1318 White 5 0.030 LPSSL1323 Green 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	LPSSL1315	Yellow		1	0.030
LPSSL1323 Green 5 0.030 LPSSL1324 Red 1 0.030 LPSSL1325 Yellow 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	LPSSL1316	Blue		1	0.030
LPSSL1324 Red 1 0.030 LPSSL1325 Yellow 1 0.030 LPSSL1326 Blue 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	LPSSL1318	White		5	0.030
LPSSL1324 Heu 1 0.000 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	LPSSL1323	Green	<u> </u>	5	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 LPSSL1335 Blue 1 0.030 LPSSL1335 Yellow 1 0.030 LPSSL1336 Blue 1 0.030	LPSSL1324	Red	\sim	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	LPSSL1325	Yellow		1	0.030
LPSSL1333 Green 5 0.030 LPSSL1334 Red 1 0.030 LPSSL1335 Yellow 1 0.030 LPSSL1336 Blue 1 0.030	LPSSL1326	Blue		1	0.030
LPSSL1334 Red 1 0.030 LPSSL1335 Yellow 1 0.030 LPSSL1336 Blue 1 0.030	LPSSL1328	White	\downarrow	5	0.030
LPSSL1334 Red 1 0.030 LPSSL1335 Yellow 1 0.030 LPSSL1336 Blue 1 0.030	LPSSL1333	Green		5	0.030
LPSSL1336 Blue 1 0.030	LPSSL1334	Red		1	0.030
	LPSSL1335	Yellow		1	0.030
LPSSL1338 White 5 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 = 0.8Nm/7lb.in). Actuators latch onto the mounting adapter by simple rotation.

Contact elements

See page 7-37 and 7-38. Type

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.

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

Pushbuttons and selector switches

PLatinum series Ø22mm metal

ne

Pilot light heads



LPSL...

	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 🛛	5	0.029

• With symbol indicating dangerous voltage (IEC/EN 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 adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/7lb.in). Actuators latch onto the mounting adapter by simple rotation.

LED light elements See pages 7-39 to 42.

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.

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Order code

PLatinum series Ø22mm metal

Joysticks



LPS.I4. (without mechanical interlock)

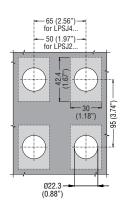


LPSJ2... (with mechanical interlock)

Accessories



LPXAU101



			NO	n°	[kg]		
		Without mechanical interlock. Complete with auxiliary contact. Label holder excluded.					
	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 exc				xcludeo	d.		
	LPSJ210	•	2	1	0.082		
	LPSJ211	ø	2	1	0.082		
211	LPSJ410		4	1	0.104		

i

4

1

Qty per pkg

n°

1

0.104

Wt

[kg]

0.004

LPSJ411

Order code

LPXAU101

Type of

positions

N° auxiliary Qty

per

pkg

elements

Wt

for adhesive legends 0

2-4 directional holder

Description

• 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:

[V]	12	24	48	120	240
[A]	6	6	6	6	3
EC/É	N operati	onal char	acteristics	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 = 0.8Nm/7lb.in). The joystick latches onto the mounting adapter by simple

rotation.

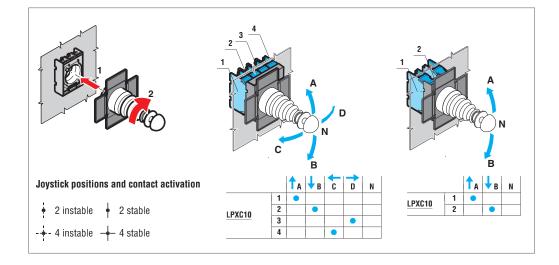
Contact elements snap onto the mounting adapter. 2 LPXC... contacts are mounted on joystick LPSJ2... type and 4 LPXC... contacts on LPSJ4... type.

The mounting adapter and contact elements of LPSJ2...

types can be internally mounted on LPZ... control stations covers.

Certifications and compliance

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





PLatinum series Ø30mm flat metal

ne

new

LPFQ2080

Pushbutton actuators, spring return





LPFB20...

Push-push button actuators



LPF010.



LPF020..

	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				
v	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				

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without m Push on-push of	iounting adapter). f.		
LPFQ1020	Black	5	0.060
LPFQ1030	Green	5	0.060
LPFQ1040	Red	5	0.060
LPFQ1050	Yellow	1	0.060
LPFQ1060	Blue	1	0.060
LPFQ1080	White	1	0.060
Extended (witho Push on-push of	ut mounting adapter). f.		
LPFQ2020	Black	5	0.062
LPFQ2030	Green	5	0.062
LPFQ2040	Red	5	0.062
LPFQ2050	Yellow	1	0.062
LPFQ2060	Blue	1	0.062

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

1

White

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

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 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 = 0.8Nm/7lb.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.

1NO	LPXC10	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:

0.062

<u>LPXC01</u> (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. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 nº 14.



Pushbuttons and selector switches

PLatinum series Ø30mm flat metal

Pushbutton actuators, spring return, with symbo



LPFB11...



Pushbutton actuators, spring return, with special symbols

ne

LPFB21...

	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	I	Green	5	0.060		
	LPFB1118		White	5	0.060		
	LPFB1123	II	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	8	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	t mounting ad	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 A B B B B B B B B B B						

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).		
	LPFB0@18®	40	6	50	0.062
v	LPFB0@34®	MAN	6	50	0.062
•	LPFB 0 @35®	AUTO	6	50	0.062
	LPFB 0 @228	/	6	50	0.062
	LPFB0@23®		6	50	0.062

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

base (Tmax = 0.8Nm/7lb.in).

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

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

Termination Туре Front-mount types snap onto LPXAU120M mounting adapter

supplied with the actuator and the screws incorporated in the

(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	
	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.

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

LPFB...

Dimensions

7

PLatinum series Ø30mm flat metal

Selector switch actuators lever



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ne

LPFS1...

Selector switch actuators long lever



LPFS2...

Selector switch actuators key (Ronis)



LPF\$3...





Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (withou	t mounting adapter).		
LPFS120	\sim	5	0.062
LPFS121	\sim	5	0.062
3 positions (withou	t mounting adapter).		
LPFS130	\checkmark	5	0.062
LPFS131	$\langle \downarrow \rangle$	5	0.062
LPFS132	$\langle \downarrow \rangle$	5	0.062
LPFS133	\checkmark	5	0.062
	2 positions (withou LPFS120 LPFS121 3 positions (withou LPFS130 LPFS131 LPFS132	positions 2 positions (without mounting adapter). LPFS120 LPFS121 3 positions (without mounting adapter). LPFS130 LPFS131 LPFS132	positionsper pkgn°n°2 positions (without mounting adapter).5LPFS12053 positions (without mounting adapter).5LPFS1305LPFS1315LPFS1325

	Order code	Type of positions	Qty per pkg	Wt	
			n°	[kg]	
	2 positions (without	t mounting adapter).			
	LPFS220	\sim	5	0.065	
_	LPF\$221	∇	5	0.065	
	3 positions (without mounting adapter).				
V	LPFS230	\checkmark	5	0.065	
	LPFS231	$\langle \! \! \! \! \! \rangle$	5	0.065	
	LPFS232	$\langle V \rangle$	5	0.065	
	LPFS233	\checkmark	5	0.065	

Order code	Type of	Qty	Wt
	positions	per pkg	[lin]
O z z ziti z zz (with			[kg]
	out mounting adapter)		0.005
LPF\$320	-	5	0.095
LPFS320RO		1	0.095
LPFS321	- •	5	0.095
LPFS321RO	· ·	1	0.095
LPFS340	- •	5	0.095
LPFS340RO	×.	1	0.095
·	out mounting adapter)		
LPFS330		5	0.095
LPFS330RO	V	1	0.095
LPFS331	•••	5	0.095
LPFS331RO	\vee	1	0.095
LPFS332@	•	5	0.095
LPFS332RO@	\vee	1	0.095
LPFS333@		5	0.095
LPFS333R00	\neg \checkmark	1	0.095
LPFS350		5	0.095
LPFS350RO		1	0.095
LPFS360	- 2	5	0.095
LPFS360RO		1	0.095
LPFS370@	- •	5	0.095
LPFS370R00		1	0.095
LPFS380@	C. •	5	0.095
LPFS380R00		1	0.095
LPFS390@	• ~	5	0.095
LPFS390R00		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 = 0.8Nm/7lb.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

ingin, one	bonnia the other.	
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: cUL us Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.



Pushbuttons and selector switches

PLatinum series Ø30mm flat metal

Selector switch actuators knob



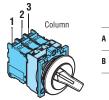
LPFS4..

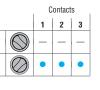
		_
		-
_		-
	new	-
		-
		-

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (without	it mounting adapter).		
LPFS420	\sim	5	0.072
LPFS421	∇	5	0.072
3 positions (withou	it mounting adapter).		
LPFS430	\checkmark	5	0.072
LPFS431	$\langle p \rangle$	5	0.072
LPFS432	$\langle \downarrow \rangle$	5	0.072
LPFS433	\checkmark	5	0.072

Contact activation

2-position selector switch

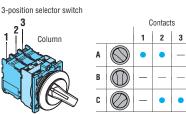




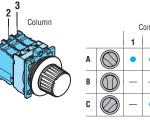
2-position knob selector switch

2 Column		_ C	onta
		1	2
	A 🚫	—	_
	B	•	•

icts 3



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 = 0.8Nm/7lb.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.

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.

51 Spring return position.

Rotation angles

2 positions



Certifications and compliance Certifications: cULus.

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







Contacts 2 3 •



PLatinum series Ø30mm flat metal

Illuminated button actuators, spring return



LPFBL10...



LPFBL20...

Illuminated push-push **button actuators**

nev



LPFQL10...



LPFQL20...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without m	ounting adapter). Sprin	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
Extended (withou	t mounting adapter). S	pring 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
	Flush (without m LPFBL103 LPFBL104 LPFBL105 LPFBL106 LPFBL107 Extended (withou LPFBL203 LPFBL204 LPFBL205 LPFBL206	Flush (without mounting adapter). Sprint LPFBL103 Green LPFBL104 Red LPFBL105 Yellow LPFBL106 Blue LPFBL107 Transparent Extended (without mounting adapter). S LPFBL203 Green LPFBL204 Red LPFBL205 Yellow LPFBL206 Blue	Flush (without mounting adapter). Spring return.LPFBL103GreenLPFBL104RedSSLPFBL105YellowSSLPFBL106BlueSSLPFBL107TransparentSStrand adapter). Spring returnLPFBL203GreenSSLPFBL204RedSSLPFBL205YellowSSLPFBL206BlueSS

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without m Push on-push of	ounting adapter).		
LPFQL1030	Green	5	0.070
LPFQL1040	Red	5	0.070
LPFQL1050	Yellow	5	0.070
LPFQL106	Blue	5	0.070
LPFQL1070	Transparent	5	0.070
Extended (withou Push on-push of	it mounting adapter).		
LPFQL203	Green	5	0.072
LPFQL2040	Red	5	0.072
LPFQL2050	Yellow	5	0.072
LPFQL206	Blue	5	0.072
LPFQL2070	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: 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 = 0.8Nm/7lb.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.

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



Pushbuttons and selector switches

PLatinum series Ø30mm flat metal

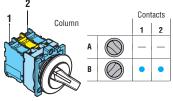
Illuminated selector switch actuators



LPFSL1...

hew

Contact activation	of 2-position	selector switch



Contact activation of 3-position selector switch

2 1 0aluar			Cont	acts
Colum	10		1	2
	A	\bigcirc	•	_
	В		—	_
J.S	С С	\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	\sim	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	\mathbf{n}	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		5	0.060
LPFSL1305	Yellow		5	0.060
LPFSL1306	Blue		5	0.060
LPFSL1308	White		5	0.060
LPFSL1313	Green	20	5	0.060
LPFSL1314	Red	$\langle \rangle$	1	0.060
LPFSL1315	Yellow		1	0.060
LPFSL1316	Blue		1	0.060
LPFSL1318	White		5	0.060
LPFSL1323	Green	<u>_</u>	5	0.060
LPFSL1324	Red	$\langle \rangle$	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		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 = 0.8Nm/7lb.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





See pages 7-39 to 42.

Certifications and compliance

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



PLatinum series Ø30mm flat metal

Pilot light heads



LP	FI	L.	
LP	F		

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new	ī
	ī

Order code	Colour	Qty per pkg	Wt			
		n°	[kg]			
Without mount	ing 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 = 0.8Nm/7lb.in).

LED light elements See pages 7-39 to 42.

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.

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PLatinum series Ø30mm flat metal

USB and RJ45 communication interfaces



LPFD01



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



7

Pushbuttons and selector switches

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	ounting adapter). Sprin	unting 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	it mounting adapter). S	pring return.					
LPCB202	Black	10	0.027				
LPCB203	Green	10	0.027 0.027 0.027 0.027				
LPCB204	Red	10 1 1					
LPCB205	Yellow						
LPCB206	Blue						
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	306 Blue 1		0.027				
LPCB308	White	1	0.027				

Order code	Colour	Qty per pkg	Wt	
		n°	[kg]	
Flush (without m Push on-push off	0 1 /			
LPCQ1020	Black	10	0.025	
LPCQ1030	Green	10	0.025	
LPCQ1040	Red	10	0.025	
LPCQ1050	Yellow 1	1	0.025	
LPCQ1060	Blue	1	0.025	
LPCQ1080	White	1	0.025	
Extended (withou Push on-push off	t mounting adapter).			
LPCQ2020	Black	10	0.027	
LPCQ2030	Green	10	0.027	
LPCQ2040	Red	10	0.027	
LPCQ2050	Yellow	1	0.027	
LPCQ2060	Blue	1	0.027	
LPCQ2080	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	AU120 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.

1.		
1N0	LPXC10	Screw
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw
Base moun	it types snan into L	PZP control station hase

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



PLatinum series Ø22mm chromed plastic

Mechanical rest buttons, complete unit, spring return



Pushbutton actuators,

spring return, with symbol



LPCB11



Pushbutton actuators, spring return, with special symbols



LPCB...

Order code	Colour	Qty per pkg	Wt	
		n°	[kg]	
	" stroke). Adjustable lengtl aft (without mounting adap			
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" 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	1	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	0	White	10	0.025			
LPCB1152		Black	10	0.025			
LPCB1158	- Tø	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 (with	adapter). S	pring 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 right or left.

Arrow	symbol	can	be	usea	τo	indicate	up	or	down.	

Order code Ø G	Symbol	Colour	Qty per pkg	Wt
			n°	[kg]
Spring return (with	out mounting	adapter).		
LPCBO@180	40	0	50	0.027
LPCB00340	MAN	6	50	0.027
LPCB00350	AUTO	6	50	0.027
LPCB00220	1	0	50	0.027
LPCB00230		6	50	0.027
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.

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
mo		SCIEW
	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

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.

Pushbuttons and selector switches

PLatinum series Ø22mm chromed plastic

Mushroom head pushbutton actuators







LPCB6344



LPCB6634



LPCB6644



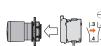
Normal operation of auto-monitor contact mounted on surface or on cover of control stations

.3 .1 .4 .2

.4 .2









 $\ominus \ominus$ 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.

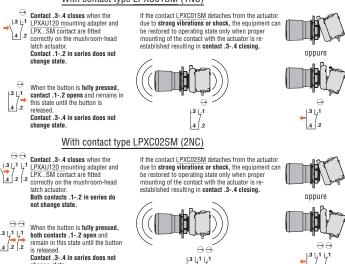
Order code	Colour	Qty per pkg	Wt			
		n°	[kg]			
SPRING RETURN. Ø40mm/1.57" (witho	out mounting a	dapter).				
LPCB6142	CB6142 Black 10 0.033					
LPCB6143	Green	10	0.033			
LPCB6144	Red	10	0.033			
LPCB6145	Yellow	10	0.033			
LPCB6146	Blue	10	0.033			
Ø60mm/2.36" (witho	ut mounting a	dapter).				
LPCB6162	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.	ut mounting a	dapter).				
LPCB6742	Black	10	0.097			
For emergency stopp	For emergency stopping, ISO 13850 compliant.					
LPCB6744	Red	10	0.097			
LATCH, TURN TO RE Ø40mm/1.57" (witho For normal stopping.	ut mounting a	dapter).				
LPCB6342	Black	10	0.046			
LPCB6344	Red	10	0.046			
Ø30mm/1.18" (witho For emergency stopp						
LPCB6634	Red	10	0.079			
Ø40mm/1.57" (witho For emergency stopp	ut mounting a ing, ISO 1385	dapter). D 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 1385	0 compliant.				
LPCB6844	Red	10	0.083			
LPCB6844RO	Red	1	0.083			
Versions with different k	av codes					

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)



4/2/2

Dimensions

page 7-64

Accessories and spare parts

page 7-46 to 51

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 u	in 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 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.		
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

Auto-monitor	LPXC01SM	Screw (2 stacked in the
1NO		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	LPXC02SM	Screw (2 stacked)
2NC		

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.

Add-on blocks page 7-36 to 42



Ouden eede

PLatinum series Ø22mm chromed plastic

Double-touch actuators, spring return



LPCB71.



Triple-touch actuators,



spring return

LPCB73...

	Urder code	Colour	Symbols	Qty per pkg	VVt
				n°	[kg]
	Two flush pushbu Both spring retur		t mounting	adapter).	
	LPCB7112	Black/Red		5	0.030
	LPCB7113	Green/Red		5	0.030
	LPCB7114	White/Black		5	0.030
	LPCB7122	Black/Red	I-0	5	0.030
	LPCB7123	Green/Red	1-0	5	0.030
	LPCB7124	White/Black	I-0	5	0.030
	LPCB7133	Green/Red	Start/Stop	5	0.030
w	LPCB7191	Black/Black	↑ ⊥	5	0.030
	One extended and adapter). Both sp		nbuttons (w	/ithout mou	unting

Cumhala Ohu

Oalaum

adaptor). Both opinig rotani.				
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]
o	1 11 11		

One middle extended buttons

(

-	g adapter). Spring returr		
LPCB7345		5	0.030
	STOP		
	H		
LPCB7355	1	5	0.030
	STOP		
	STUP		
	+		
LPCB7365	•	5	0.030
	-		
	STOP		
	-		
LPCB7375		5	0.030
	STOP		
	\checkmark		

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

14/4

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.

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.

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,

1NO	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.

Pushbuttons and selector switches

PLatinum series Ø22mm chromed plastic

Selector switch actuators lever



LPCS1.

Selec	tor switch	actuators
long	lever	



Selector switch actuators key (Ronis)



Order code	Type of positions	Qty per pkg	Wt	
		n°	[kg]	
2 positions (withou	t mounting adapter).			
LPCS120	\sim	10	0.037	
LPCS121	∇	10	0.037	
3 positions (without mounting adapter).				
LPCS130	\checkmark	10	0.037	
LPCS131	$\langle \rangle$	10	0.037	
LPCS132	$\langle \downarrow \rangle$	10	0.037	
LPCS133	\mathbf{V}	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 (without mounting adapter).				
LPCS230	\checkmark	10	0.040	
LPCS231	$\langle p \rangle$	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 (with	out mounting adapter).		
LPCS320	•	10	0.060
LPCS320RO		1	0.060
LPCS321	• •	10	0.060
LPCS321RO		1	0.060
LPCS340	•	10	0.060
LPCS340RO		1	0.060
3 positions (with	out mounting adapter).		
LPCS330		10	0.060
LPCS330RO	\vee	1	0.060
LPCS331	•••	10	0.060
LPCS331RO	V	1	0.060
LPCS332@	•	10	0.060
LPCS332RO@	∇	1	0.060
LPCS333@		10	0.060
LPCS333RO@	V	1	0.060
LPCS350	- (1/2	10	0.060
LPCS350RO		1	0.060
LPCS360		10	0.060
LPCS360RO	V.	1	0.060
LPCS370@		10	0.060
LPCS370RO@		1	0.060
LPCS380@		10	0.060
LPCS380R00	<u>`\/</u>	1	0.060
LPCS390@	•.D	10	0.060
LPCS390RO@		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 5320 R421E.
 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.	
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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.
- 57 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

Dimensions

page 7-65



Pushbuttons and selector switches

PLatinum series Ø22mm chromed plastic

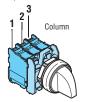
Selector switch actuators knob

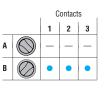


Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (without	it mounting adapter).		
LPCS420	\sim	10	0.037
LPCS421	∇	10	0.037
3 positions (without	it mounting adapter).		
LPCS430	\checkmark	10	0.037
LPCS431	$\langle \rangle$	10	0.037
LPCS432	$\langle \vee$	10	0.037
LPCS433	\checkmark	10	0.037

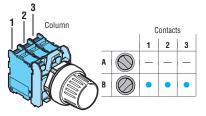


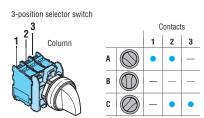
2-position selector switch



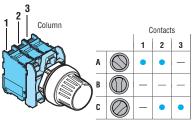


2-position knob selector switch





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.			
1NO	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



Pushbuttons and selector switches

PLatinum series Ø22mm chromed plastic

Illuminated button actuators, spring return





LPCBL20...

Illuminated push-push button actuators



LPCQL10...



LPCQL20.

Illuminated mushroom head button actuators



LPCBL614...



Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without n	nounting adapter). Sprin	g 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 (witho	ut mounting adapter). S	pring return	
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]
EL 1 / 11 1			

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	
LPCQL1070	Transparent	10	0.025	
Extended (without mounting adapter). Push on-push off.				

rusii oli-pusii oli.				
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.

page 7-46 to 51

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

- PP	5			
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 First and the left and right, one behind the other. 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 nosition

1		
1N0	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



Pushbuttons and selector switches

lew

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
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	1	5	0.030

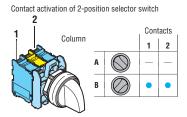
One extended and one flush pushbuttons (without mounting adapter). Both spring return. DL 1 0.000

LPCBL/212	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	I-0	5	0.030
LPCBL7224	White/Black	I-0	5	0.030
LPCBL7233	Green/Red	Start/Stop	5	0.030

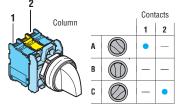
Illuminated selector switch actuators



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	adapter).		
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	\sim	1	0.025
LPCSL1215	Yellow		1	0.025
LPCSL1216	Blue		1	0.025
LPCSL1218	White		10	0.025
3 positions (wi	thout mounting a	adapter).		
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	ļ	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 Type 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.

·		
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 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 3 positions 2 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.

Add-on blocks page 7-36 to 42

Dimensions page 7-65

Pushbuttons and selector switches

PLatinum series Ø22mm chromed plastic

Pilot light heads



Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Without mour	iting 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



LPCD01

LPCD05

	2000.10100	per pkg	
		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
<u>LPCD01</u> L100	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

Order code Description

new

lew

General characteristics

Qty Wt

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 \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
- 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: ≤40mOhm
- _ 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...

PLatinum series Ø22mm chromed plastic

LED integrated monoblock pilot lights steady light



LPM...

Order code	Rated auxi- liary supply voltage	LED colour	Qty per pkg	Wt
			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	1	Yellow	10	0.021
LPMLB6	1	Blue	10	0.021
LPMLB7	1	Transparent	10	0.021
LPMLD1	48VAC/DC	Orange	10	0.021
LPMLD3	-	Green	10	0.021
	1	Red	10	0.021
	-	Yellow	10	0.021
	1		10	0.021
	-		10	0.021
	110120VAC		-	0.024
				0.024
	-			0.024
	-		-	0.024
	-	Blue	10	0.024
	-		-	0.024
	230VAC			0.024
		-	-	0.024
	-		-	0.024
	-		-	0.024
	-			0.024
	-			0.024
	380 /15\//00			0.024
	500413VA0			0.024
	-			0.024
	-			
	-			0.024
	-			0.024
	110 1051/00			<u> </u>
	110125700	-		0.024
	-			0.024
	-			0.024
	-			0.024
	-			0.024
	0001/00	-		0.024
	220700	-		0.024
	-	·		0.024
	4			0.024
	4			0.024
	4			0.024
LPMLN7		Transparent	10	0.0
	LPMLA1 LPMLA3 LPMLA4 LPMLA5 LPMLA6 LPMLA7 LPMLB1 LPMLB3 LPMLB3 LPMLB4 LPMLB5 LPMLB6 LPMLD4 LPMLD3 LPMLD4 LPMLD5 LPMLD4 LPMLD5 LPMLD4 LPMLD5 LPMLD4 LPMLD5 LPMLD4 LPMLD5 LPMLD4 LPMLD5 LPMLD4 LPMLD5 LPMLD5 LPMLC7 LPMLE1 LPMLE5 LPMLE5 LPMLE6 LPMLE7 LPMLM1 LPMLM3 LPMLM4 LPMLM5 LPMLP4 LPMLP5 LPMLP4 LPMLP5 LPMLP5 LPMLF1 LPMLF3 LPMLF4 LPMLF5 LPMLF5 LPMLF4 LPMLF5 LPMLF4 LPMLF5 LPMLF4 LPMLF5 LPMLF4 LPMLF5 LPMLF4 LPMLF5 LPMLF4 LPMLF5 LPMLF4 LPMLF5 LPMLF5 LPMLF4 LPMLF5 LPMLF4 LPMLF5 LPMLF4 LPMLF5 LPMLF4 LPMLM3 LPMLM4 LPMLM3 LPMLM4 LPMLM5 LPMLM4 LPMLM5 LPMLM1 LPMLM3 LPMLM4 LPMLM5 LPMLM4 LPMLM5 LPMLM4 LPMLM5 LPMLM4 LPMLM5 LPMLM4 LPMLM5 LPMLM4 LPMLM5 LPMLM4 LPMLM5 LPMLM6 LPMLM5 LPMLM4 LPMLM5	liary supply voltageLPMLA112VAC/DCLPMLA312VAC/DCLPMLA412VAC/DCLPMLA512VAC/DCLPMLA612VAC/DCLPMLB124VAC/DCLPMLB312VAC/DCLPMLB412VAC/DCLPMLB512VAC/DCLPMLB612000000000000000000000000000000000000	liary supply voltagecolourLPMLA112VAC/DCOrangeLPMLA3GreenLPMLA4RedLPMLA5YellowLPMLB124VAC/DCOrangeLPMLB3GreenLPMLB4RedLPMLB5YellowLPMLB6BlueLPMLB7TransparentLPMLD148VAC/DCOrangeLPMLD3GreenLPMLD4RedLPMLD5YellowLPMLD5GreenLPMLD6BlueLPMLE6BlueLPMLE7TransparentLPMLE6BlueLPMLE7TransparentLPMLE6BlueLPMLE7TransparentLPMLE6BlueLPMLE7TransparentLPMLE6BlueLPMLE7TransparentLPMLF4RedLPMLM5YellowLPMLM6BlueLPMLM6BlueLPMLM6BlueLPMLP1380415VACOrangeGreenLPMLP3GreenLPMLP4RedLPMLP5YellowLPMLF3GreenLPMLF4RedLPMLF5SlueLPMLF6BlueLPMLF6BlueLPMLN3GreenLPMLN4YellowLPMLN5HolwLPMLN5BlueLPMLN6BlueLPMLN5HolwLPMLN6BlueLPMLN5HolwLPMLN6BlueLP	liary supply voltagecolourper pkgLPMLA112VAC/DCOrange10LPMLA312VAC/DCGreen10LPMLA4Perlow10Red10LPMLA5Yellow10Blue10LPMLB624VAC/DCOrange10Green10LPMLB724VAC/DCOrange1010LPMLB6Yellow10Fransparent10LPMLB724VAC/DCOrange1010LPMLB6Yellow101010LPMLB710Transparent1010LPMLB6Orange101010LPMLB6InTransparent1010LPMLD148VAC/DCOrange1010LPMLB5InTransparent1010LPMLD6InTransparent1010LPMLD7Transparent101010LPMLE1110120VACOrange1010LPMLE3Freen101010LPMLE4Parisson101010LPMLM1230VACOrange1010LPMLM3S0415VACOrange1010LPMLM6InTransparent1010LPMLP7Transparent101010LPMLP6InTransparent1010LPMLP7Transparent101010LPMLP6InTransparent10<

Operational characteristics

- 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: ±20mA
 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

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 500k $\Omega.$ 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:
- 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),
- Minimum activation voltage: >4V (type 9...15VAC/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 cover of LPZ... control stations Service life: 30,000 hours (permanently powered) Cide onbe actor.
- 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 n° 14.



LPCZS...

Monoblock buzzers

	i ontago	intensity at 2800Hz	per pkg.	
	[V]	[dB/10cm]	n°	[kg]
Continuous or	oulse tone, IP40 vei	rsion.		
LPCZSA	915VAC/DC	90	1	0.020
LPCZSB	1830VAC/DC	90	1	0.020
LPCZSE	85140VAC/DC	90	1	0.020
LPCZSM	185265VAC/DC	90	1	0.020
Continuous or pulse tone, IP66, IP67, IP69K and UL Type 4X version.				
LPCZSAIP	915VAC/DC	80	1	0.020
LPCZSBIP	1830VAC/DC	80	1	0.020
LPCZSEIP	85140VAC/DC	80	1	0.020
LPCZSMIP	185265VAC/DC	80	1	0.020

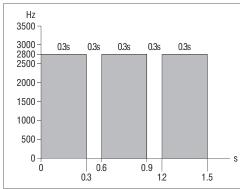
Pulse-tone sound graph

Accessories and spare parts

page 7-46 to 51

Order code

Voltage



Dimensions

page 7-65

Wiring diagrams page 7-69



Qty

Sound

Wt



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	thout mountir	ng adapter)		
LP0800250	+	4	50	0.027
LP0800260	-	0	50	0.027
LP0B00270	<u> </u>	Ø	50	0.027
LP0800280	-Ö-	0	50	0.027
LP0800290	<u>\</u>	Ø	50	0.027
LP0800300	ALTO	0	50	0.027
LP0B00310	BASSO	4	50	0.02
LP0B00320	\$X	4	50	0.02
LP0B00330		4	50	0.02
LP0800340	MAN	0	50	0.02
LP0800350	AUTO	0	50	0.02
LP0B00380	TRIP	•	50	0.02
LP0800390	TEST	0	50	0.02
LP0800400	\triangle	4	50	0.02
LP0800410	t	4	50	0.02
LP0800420	$\overline{\Theta}$	4	50	0.02
LP0800430	Q	4	50	0.02
LP0800440	1	4	50	0.02
LP0800450	ww	4	50	0.02
LP0800460		4	50	0.02
LP0800470	\bigcirc	4	50	0.02
LP0800480	Č,	4	50	0.02
LP0800490	t↓	4	50	0.02
LP0800520	N	4	50	0.02
LP0800530	٦₽٢	4	50	0.02
LP0800540	•	•	50	0.02
LP0800550		0	50	0.02
LP0800560	START STOP	0	50	0.02
LP0800570		0	50	0.02
LP0800580	IV	4	50	0.02
LP0800590	₹	4	50	0.02
LP0800600	"Č"	4	50	0.02
LPOB@@61@	,	•	50	0.02
LP0B00620	7	•	50	0.02
LPOB@@63@	5	•	50	0.02
LPOB00640	0	4	50	0.02
LPOB@@65@	\bigcirc	0	50	0.02
	A	0	50	0.02
LPOB00670		0	50	0.02
	Â	0	50	0.02
	44	-	50	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). ts can be fitted: 3 e nd the other.) mounting adapt ē 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
		Fastan

	2171010	00.011
	LPXCF10	Faston
	LPXCS10	Spring clamp
1EM	LPXC10A	Screw
1NC	LPXC01	Screw
	LPXCF01	Faston
	LPXCS01	Spring clamp
1LB	LPXC01D	Screw
Base mount ty	nes snap into I PZF	control station base

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

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

1N0	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.



Order code

PLatinum series

Mounting adapters



LPXAU120

Mounting adapters with

new

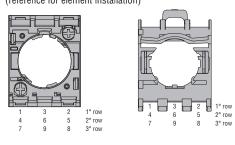
contact elements

new

LPXAU120M	Mounting adapter for metal actuators (LPS and LPF)		
LPXAU120	Mounting adapter for chromed plastic actuators (LPC)	10	

Description

Rear view (reference for element installation)



Order code	Funzione	Qty per pkg	Wt	
		n°	[kg]	
Screw termination contact elements. For metal actuators				

LPS... and LPF... With LPXAU120M mounting adapter. LPXE10MO .3 5 0.030

	NO O		
<u>LPXE01M</u> ⊖	.1 .2 ⊖ NC❷	5	0.030
Screw termination c	ontact elements For c	hromed nl	astic

actuators LPC... With LPXAU120 mounting adapter.

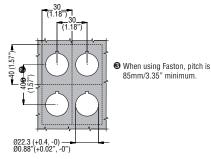
LPXE100	.3 ∖ NO❶	10	0.015
<u>LPXE01</u> ⊖	L.1 ∕.2 ↔ NC❷	10	0.015

• 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.

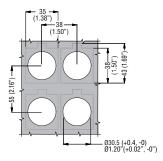
Drillings

Minimum recommended distances for Ø22mm/0.87" actuators.



85mm/3.35" minimum.

Minimum recommended distances for Ø30mm/1.18" 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 =

Qty per

pkg

n°

Wt

[kg]

0.019

0 0 0 4

- Dy 2 Strews more percent 0.8Nm/7lb.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/	ieo/en operational enalacteristics in Aoro 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: ≤20mΩ. 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.

LPXE...

LPXE...M

7-36



PLatinum series

Contact elements with screw terminals



LPXC..

Order code	Function		Qty per pkg	Wt
			n°	[kg]
Screw termination.	Nithout r	nounting adap	oter.	
LPXC10	.3 \.4	NOO	10	0.011
LPXC10A	.7 .8	EM❷	10	0.011
LPXC01 ⊖	.1 /⊖ .2	NC®	10	0.011
LPXC01D0 ⊖	.5 7⊖ .6	LB 004	10	0.011

- Use LPXC10A (EM) or LPXC01 (NC) type only with push-push actuators. Not suitable for push-push actuators.
- Normally open contact with early-make operation and suitable for
- push-push actuators.
- B Direct (positive) opening action → in accordance with IEC/EN/BS 60947-5-1.
 Normally closed contact with late break operation.

Contact elements with spring-clamp terminals

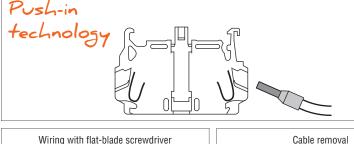


LPXCS01

Qty per pkg	Wt
n°	[kg]
10	0.010
10	0.010
	10

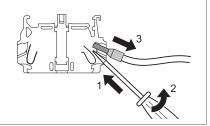
 $\textbf{@} \ \ \mathsf{Direct} \ (\mathsf{positive}) \ \mathsf{opening} \ \mathsf{action} \bigoplus \ \mathsf{in} \ \mathsf{accordance} \ \mathsf{with} \ \mathsf{IEC/EN/BS} \ \mathsf{60947-5-1}.$

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





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 cated

IEU/	TEO/EN Operational characteristics in ACTO 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	4	48	125	250	440	500	600
[A]	3	3		1.5	0.55	0.27	0.15	0.13	0.1

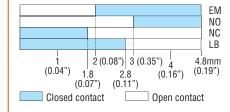
Short circuit protection fuse: max calibre: 10A gG/SC.

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 <u>LPXC10/01/E01/10</u>, <u>LPXC01SM/02SM, LPXCF10/01; 600,000 cycles for</u> 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.

Dimensions page 7-62



Pushbuttons and selector switches

PLatinum series

Contact elements with Faston terminals





Order code	Function	Qty per pkg	Wt
		n°	[kg]
Faston termination.	Without mounting adap	oter.	
LPXCF100	.3 NO O .4	10	0.012
$\underline{LPXCF01} \ominus$		10	0.012

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

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

A STATE	A AND A
Mar I	221
F	
	Contra -
4	
Si di si	

Contact elements, base

mount on LPZP... control

stations with screw

terminals

LPXCB.

Auto-monitoring contact

elements with screw

LPXC01SM

terminals		
	-	
No.		

LPXC02SM

		n°	[kg]
Screw termination. Auto-monitor contac mushroom-head put	t elements for no		ted latch
LPXC01SM 0 ⊖		9	0.022
LPXC02SM 0 ⊖	\.3 .1 .1 .4 .2 .2	9	0.033

Function

Order code

Wt

0.012

Qty per

pkg

• 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.

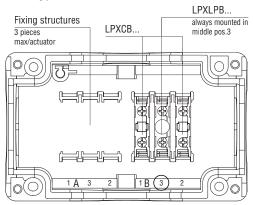
Order code	Function	I.	Qty per pkg	Wt
		r	n°	[kg]
Screw termination.				

Direct snap-on mounting on LPZP... control station base. LPXCB100 |.3 10 0.012

	NOO	
<u>LPXCB01</u> ⊖		10

● 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:

120/		poruir	onui	onarad		00 111 7	1010 00	logory	•
[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 AC15 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: $\leq 20m\Omega$.

Terminals: Clamp screw with washer. Faston 1x6.35mm(0.25") or 2x2.8mm(0.11").

Stroke of contact elements

			NO NC
1 1 (0.03") (0.0		3 4 1") (0.16	4.8mm ") (0.19")
Closed con	itact	Open c	ontact

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...

Urder code	Description	oty per pkg	VVT
		n°	[kg]
Screw termination	on. 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> @	Use with LED elements at 185-265VAC for types LPXLFM, LPXLPM and LPXLPSM	10	0.011

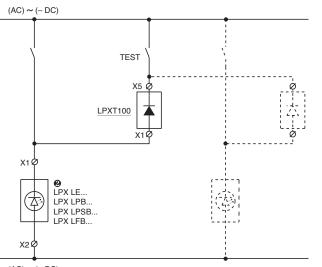
Ouden and a Description

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

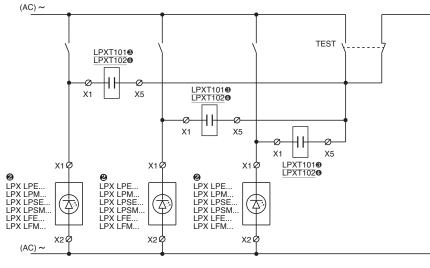
With DC supply only for LPXT100 type, the LED element works at full voltage and brightness while with AC supply for all LPXT... types, the LED element works at half voltage with reduced brightness level.

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:

04. 14/4

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

- 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

For LPXT100 X1 Χ5 For LPXT101 - LPXT102 X1 -X5

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.



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 PXLE...

Simple protection against overvoltages

Order code	Rated supply voltage	LED colour	Qty per pkg.	Wt
	[V]		n°	[kg]
Steady light, screw Without mounting a				
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 termination.							

Without mounting adapter

without mounting adapter.						
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 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...265VÀC/DC)
- 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 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 nº 14



LPXLF...

Total pi

wiring, to

overvoltages

Pushbuttons and selector switches

Order code

PLatinum series

LED elements flashing light with screw terminals

terminais		voltage	Colour	per pkg.				
		[V]		n°	[kg]			
		Flashing light, screw termination. Without mounting adapter.						
	LPXLFB3	1830V	Green	10	0.016			
	LPXLFB4	AC/DC	Red	10	0.016			
	LPXLFB5		Yellow	10	0.016			
	LPXLFB6		Blue	10	0.016			
	LPXLFB8		White	10	0.016			
	LPXLFE3	85140V AC	Green	10	0.016			
	LPXLFE4		Red	10	0.016			
	LPXLFE5		Yellow	10	0.016			
	LPXLFE6		Blue	10	0.016			
	LPXLFE8		White	10	0.016			
rotection against	LPXLFM3	185265V	Green	10	0.016			
and stray currents in o reduce flickering non and withstand	LPXLFM4	AC	Red	10	0.016			
	LPXLFM5	1	Yellow	10	0.016			
	LPXLFM6		Blue	10	0.016			
vibrations.	LPXLFM8	1	White	10	0.016			

Operational characteristics

Qty

ner

Wt

Rated supply LED

colour

voltage

- 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.

7





Pushbuttons and selector switches

PLatinum series

LED elements steady light with spring-clamp terminals

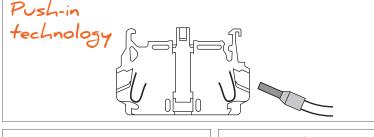


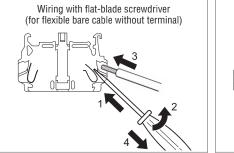
LPXLPS...

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

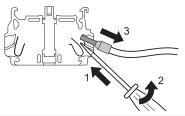
Order code	Rated supply voltage	LED colour	Qty per pkg	Wt		
	[V]		n°	[kg]		
Steady light, with spring-clamp termination. Without mounting adapter.						
LPXLPSB3	1230VAC/DC	Green	10	0.015		
LPXLPSB4		Red	10	0.015		
LPXLPSB5		Yellow	10	0.015		
LPXLPSB6	-	Blue	10	0.015		
LPXLPSB8		White	10	0.015		
LPXLPSE3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





Cable removal (always using flat-blade screwdriver)



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



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.

7-42



PLatinum series

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



LPXLPB...

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

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

Screw termination. Steady light.

Fixing structures

3 pieces

0

max/actuator

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

LPXLPBB3		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	1	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

LPXCB.

Operational characteristics

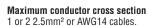
- _
- Jerational characteristics Any mounting position allowed Snap-on mounting into fixing structures of LPZ... control station base (in middle pos. 3) for each actuator See the combinations given under "Contact elements" in the right-hand column for each type of pushbutton and selector switch
- For 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

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A2	TUT	^
		J



Certifications and compliance

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.

С O

LPXLPB..

middle pos.3

always mounted in

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0

Pushbuttons and selector switches

PLatinum series

new

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

.PS)	(<u>B0</u>	
1	In	l
K		
ų	2	

LPXA162M



```
LPXA130
                 LPXDIN
```



LPXAU138





LPXA185



AUT	10
J	
5	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
LPSXQL00	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
LPXAU167@@	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 la		50	0.00
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 LPXAU100 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

- 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 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 LPXAU167 is fitted.
 For albels with text see page 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

LPFXAU105G

Order code	Description	Qty pkg	Wt
		n°	[kg]
LPFXB0	Flush or extended spring return actuator with no cap	5	0.013
	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	Plastic threaded ring 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 <u>LPXAU108</u> 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" - <u>LPXAU109</u>: 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

Pushbuttons and selector switches

PLatinum series

Accessories and spare parts for Ø22mm chromed plastic LPC... actuators

6	
LPXBO	LPXA162
LPXA200	new _
LPXAU00	LPXAU01
LPXA130	LPXDIN
0	
LPXAU138	LPXAU158
	LPXAU158
LPXAU138	LPXAU158
	<u>LPXAU158</u> -
LPXAU159	new -
LPXAU159 LPXAU159 LPXA185	
LPXAU159 LPXAU159 LPXA185 LPXAU170	new -

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
LPXQ00	Flush or extended push-push actuator with no cap	10	0.013
LPXQLOO	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.	1		
LPXAU1300	Rubber boot for flush buttons	10	0.006
LPXAU1460	Rubber boot for extended buttons	10	0.009
LPXAU157	Rubber boot for double and triple-touch buttons (transpar.)	10	0.007
LPXAU16706	Rubber boot for mushroom head buttons, LPCB63/B66/ B67/BL66 (transparent)	10	0.012
LPXAU158@@	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 an	1	50	0.001
	Label holder for LPXAU109 and LPXAU203 labels	50	0.001
LPXAU203 LPXAU109	Blank label for writing Engravable silver plastic label	50 50	0.001
LPXAU109	to use with LPXAU100 holder	50	0.002
	plastic labels	50	0.003
LPXAU102@	to use with LPXAU105 holder Legend holder for LPXAU202	50	0.002
LPXAU 10269	paper or LPXAU201 plastic labels Blank paper label for writing	50	0.003
	for LPXAU102	00	0.002
LPXAU200	Transparent protection for LPXAU202 label	50	0.001
LPXAU201	Blank plastic label for engraving for LPXAU102	50	0.002
	Dimensions		

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" LPXAU202: 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 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.

PLatinum series

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





LPXA170...





LPXB203



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
<u>LPX A170</u> R o	Spare key set for selector switches or mushroom head buttons	1	0.008
Flush cap for spr	ng 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.	minated 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 for actuators.	illuminated spring return and	push-push	ו
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: <u>LPXA170</u>R421E.

PLatinum series

Labels with text for LPXAU100 and LPFXAU100... legend holders

START
LPXAGB220
STOP
LPXAGB221
AUTO - MAN
LPXAGB212

STOP-START

LPXAGB211



LPXAGB204

Order code	Text	Qty per pkg	Wt
		n°	[kg]
International label	s for pushbuttons and selec	tor switche	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	or switches.	1	1
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	FWD-0-REV	50	0.00
	AVO-IND.	50	0.00
-	-	50	0.00
Labels for genera	START	50	0.00
			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
LPXAI223	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	0.00
LPXAGB227	FORWARD	50	0.00
LPXAI227	AVANTI	50	0.00
LPXAGB228	REVERSE	50	0.00
LPXAI228	INDIETRO	50	0.00
LPXAGB229	OPEN	50	0.00
LPXAI229	APERTURA	50	0.00
LPXAGB230	CLOSE	50	0.00
	CHIUSURA	50	0.00
LPXAGB231	RAISE	50	0.00
LPXAI231	SALITA	50	0.00
LPXAI231	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.



nev

PLatinum series

Plastic disk for Ø22mm mushroom head pushbuttons

WERGENCL STO LPXAU113 RGEN EMERGENCY ARBES LPXAU114 STOP

	Order code	Text	Qty per pkg	Wt
S			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
	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 LPXAU158 and LPXAU159 protection.

Ø60mm illuminated plastic disk for Ø22mm mushroom head pushbuttons

LPXAU110

ev



LPXDAU1140...

LPXAU124

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

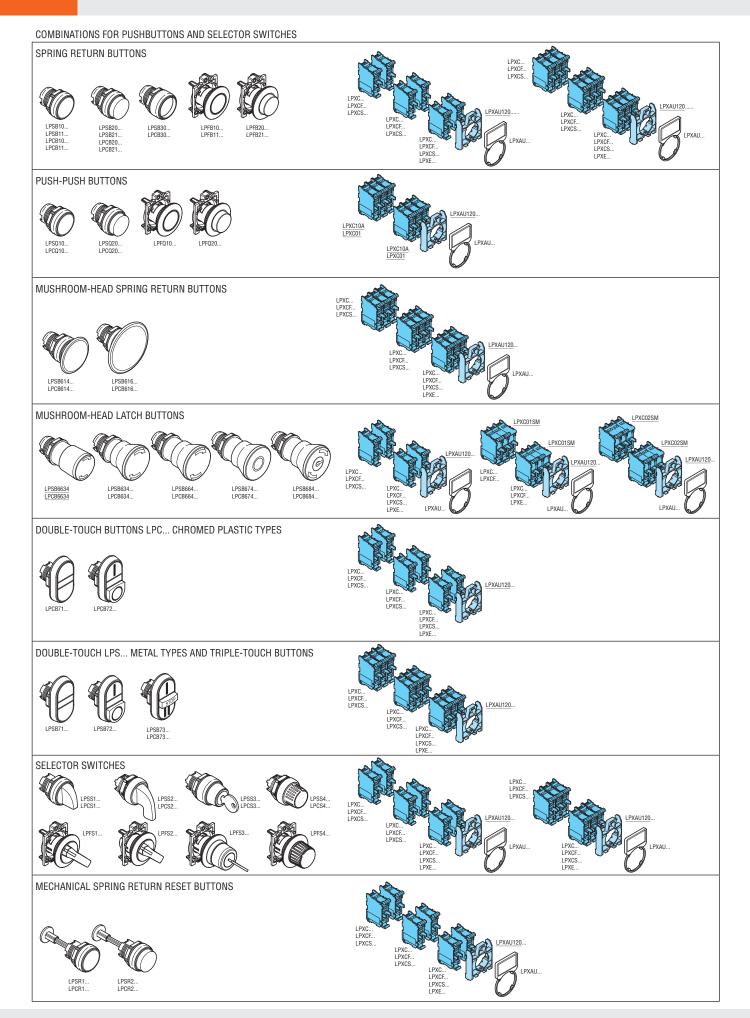
- Rated frequency: 50/60Hz _
- Electrical life: >30,000 hours
- _ Ambient conditions:
- Operating temperature: -25...+70°C • Storage temperature: -40...+85°C
- Degree of protection: _
- Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

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



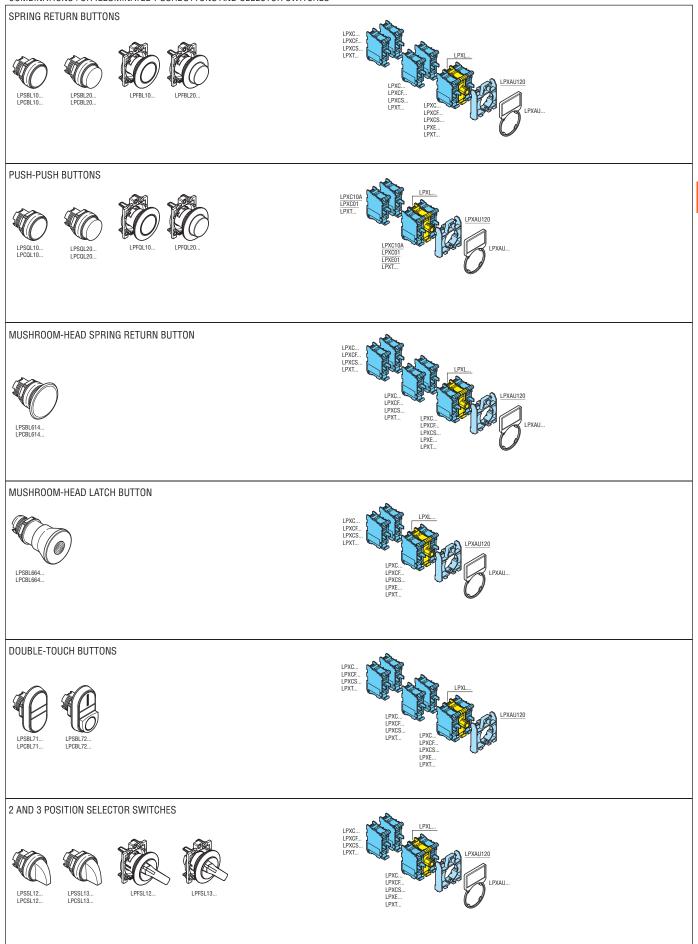


PLatinum series



7





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 Grev For 1 actuator LPZP1A8P Grey new LPZP1A5 with shroud LPZP2A5 For 2 actuators Yellow LPZP2A8 For 2 actuators Grey LPZP3A8 For 3 actuators Grey LPZP4A8 For 4 actuators Grey LPZP5A8 For 5 actuators Grey LPZP6A8 For 6 actuators Grey LPZP1A5P Control station base LPZP1A8P 1 A 3 0

LPZP3A8

new

LPZP2A5

Anti-loosening action Anti-rotation indents to extend fixing ring gripping over time

Accessories

L PZXPS



(P8		
-		

LPXP01

Order code

LPZXP5

LPZXP8

LPXP01

Dimensions page 7-66

General characteristics

- CONTROL STATIONS WITHOUT ACTUATOR
- 1 to 6 holes

Wt

[kg]

0.107

0.127

0.107

0.127

0.152

0.152

0.187

0.200

0.240

0.290

Qty

per

pkg

n°

1

1

1

1

1

1

1

1

1

1

Qty Wt

per pkg n°

1

1

50

[kg]

0.004

0.004

0.012

- 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.

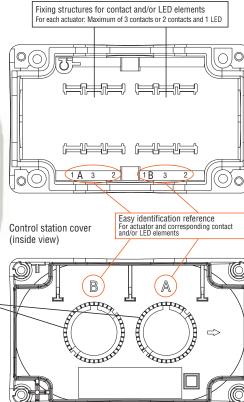
Materials

Polycarbonate.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, Certifications obtained: UL Listed for USA and Ganada, (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.





Description

protection caps

protection caps

control stations

4-piece set yellow screw

4-piece set grey screw

M20 cable gland for LPZP ...

Plastic complete control stations PLatinum series

With 1 actuator





LPZP1B8100





LPZP1B8102



LPZP1B8103

LPZP1B8104

LPZP1B8105

new





LPZP1B8300





LPZP1B8302



Order code	Description	Contacts config.	Qty per pkg	Wt
			n°	[kg]
Grey control st	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.



DOW

Plastic complete control stations PLatinum series



With 1 actuator

	new	
PZP1B5600	LPZP1B5601	Yellow LPZP1
PZP1B5602	LPZP1B5603	LPZP1
PZP1B5604	LPZP1B5605	LPZP11
PZP1B5606	LPZP1B5607	LPZP1
		10704

Order code	Description	Contacts config.	Qty per pkg	Wt
			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 0	Mushroom head pushbutton, latch, turn to release for normal stopping	1NC	1	0.179
LPZP1B5603	Mushroom head pushbutton, latch, turn to release for emergency stopping, ISO 13850	1NC	1	0.173
LPZP1B5604	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
LPZP1B5607	Mushroom head pushbutton, latch, turn key to release for emergency stopping, ISO 13850	1NO+ 1NC	1	0.205

General characteristics

- Compact dimensionsEasy 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 nº 14.

L

new

Plastic complete control stations PLatinum series



Order code Description Contacts Qtv Wt



LPZP1B5609

LPZP1B5612

new



LPZP1B5610





LPZP1B5611

Urder code	Description	config.	per pkg	VVI
			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
<u>LPZP1B5612</u>	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 nº 14.

new

Plastic complete control stations **PLatinum** series



With 2 actuators

0.00	9
0	
LPZP2B8900	LPZP2B8901
and the second se	-









LPZP2B5905

LPZP2B8904

Order code	Description	Contacts config.	Qty per pkg	Wt
			n°	[kg]
Grey control s	tation.			
LPZP2B8900	Green spring return flush pushbutton with "I" symbol	1NO	1	0.213
	Red spring return flush pushbutton with "0" symbol	1NC	1	
LPZP2B8901	Green spring return flush pushbutton with "I" symbol	1NO	1	0.214
	Red spring return extended pushbutton with "0" symbol	1NC	1	
LPZP2B8902	White spring return flush pushbutton with "up arrow" symbol	1NO	1	0.213
	Black spring return flush pushbutton with "down arrow" symbol	1NO	1	
LPZP2B8903	White spring return flush pushbutton with "right arrow" symbol	1NO	1	0.214
	Black spring return flush pushbutton with "left arrow" symbol	1NO	1	
LPZP2B8904	Green spring return flush pushbutton with "I" symbol	1NO	1	0.240
	Mushroom head pushbutton, latch, turn to release for emergency stopping, ISO 13850	1NC	1	
Yellow control	station.			
LPZP2B5905	Mushroom head pushbutton, latch, turn key to release for emergency stopping, ISO 13850	1NO+ 1NC	1	0.272
	Red steady pilot light 1230VAC/DC	-	1	

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 (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
- Tightening torque c.
 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.

Plastic complete control stations PLatinum series

Order code



With 3 actuators



9	
	0
11	0
	0

LPZP3B8901

LPZP3B8903

LPZP3B8905

LPZP3B8907

E

new

LPZP3B8900



LPZP3B8902



LPZP3B8904



LPZP3B8906

			pł
			n
Grey control s	tation.	,	
LPZP3B8900	Green spring return flush pushbutton with "I" symbol	1NO	1
	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	1N0	1
	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
	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
	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
	Red spring return flush pushbutton with "0" symbol	1NC	1
	White spring return flush pushbutton with "II" symbol	1NO	1
LPZP3B8905	White spring return flush pushbutton with "I" symbol	1NO	1
	Red spring return extended pushbutton with "0" symbol	1NC	1
	White spring return flush pushbutton with "II" symbol	1NO	1
LPZP3B8906	White spring return flush pushbutton with "up arrow" symbol	1NO	1
	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	1N0	1
	Red spring return extended pushbutton with "0" symbol	1NC	1
	r		<u> </u>

Description

Contacts Qty

per pkg

config.

Wt

[kg]

0.270

0.271

0.270

0.271

0.270

0.271

0.270

0.271

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.

Add-on blocks page 7-38

1

1N0

Black spring return

flush pushbutton with "down arrow" symbol

7

Pushbuttons and selector switches

Plastic complete control stations PLatinum series



With 3 actuators

9 9	0
LPZP3B8908	LPZP3B8909
0	9





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0	1
	1
3B8910	LP.

-	9
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)	0
9	
	LPZP3B8911

new

-0

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	(
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1		
3		

LPZP3B8912

Order code	Description	Contacts config.	Qty per pkg	Wt
			n°	[kg]
Grey control s	tation.			
LPZP3B8908	White spring return flush pushbutton with "right arrow" symbol	1NO	1	0.271
	Red spring return flush pushbutton with "0" symbol	1NC	1	
	Black spring return flush pushbutton with "left arrow" symbol	1NO	1	
LPZP3B8909	White spring return flush pushbutton with "right arrow" symbol	1NO	1	0.272
	Red spring return extended pushbutton with "0" symbol	1NC	1	
	Black spring return flush pushbutton with "left arrow" symbol	1NO	1	
LPZP3B8910	Green spring return flush pushbutton with "I" symbol	1N0	1	0.270
	Red spring return flush pushbutton with "0" symbol	1NC	1	
	Green steady pilot light 1230VAC/DC	-		
LPZP3B8911	Green spring return flush pushbutton with "I" symbol	1N0	1	0.271
	Red spring return extended pushbutton with "0" symbol	1NC	1	
	Green steady pilot light 1230VAC/DC	-		
LPZP3B8912	Green spring return flush pushbutton	1NO	1	0.278
	Red spring return flush pushbutton	1NC	1	
	Mushroom head spring return pushbutton	1NC	1	

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 c.
 Ambient conditions: Tightening torque of cover screws Tmax: 1.8Nm/16lb.in
 - 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

Palm switches

Type LP9...



LP9S...R



LP9S...B



LP9P...R

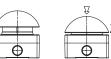
Order code	Description	Qty per pkg	Wt
		n°	[kg]
LP9S01R	Momentary Ø90mm/3.54" red mushroom. Contacts: 1NC	1	0.210
LP9S11R	Momentary Ø90mm/3.54" red mushroom. Contacts: 1N0+1NC	1	0.220
LP9S10B	Momentary Ø90mm/3.54" black mushroom. Contacts: 1NO	1	0.210
LP9S11B	Momentary Ø90mm/3.54" black mushroom. Contacts: 1N0+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: 1NO+1NC	1	0.300

Momentary mushroom





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

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 amagement the forward of the statement of the service of the ser 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 bitom)
- Any mounting position allowed
- _ Tightening torque of cover screws Tmax: 0.8Nm/7lb.in Ambient conditions:
- Operating temperature: -25...+75°C
- IEC/EN degree of protection: IP65.

CONTACT ELEMENTS

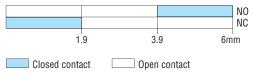
- Rated insulation voltage: 690V
- Rated thermal current Ith: 10A
- _ Conductivity: 5V 10mA
- _ Tightening torque of contact screws: 0.5...0.8Nm _ Conductor cross section: 1 or 2 conductors -
- 0.5...2.5mm²
- IEC/EN 60947-5-1 designation: A600 Q300.
- Minimum operational characteristics in AC15:

[V]	12	24	48	120	240	400	480	500	600
[A]	6	6	6	6	3	1.9	1.5	1.4	1.2
Minimum operational characteristics in DC13:									
[V]	12	2	4	48	125	250	440	500	600
[A]	3	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.



- Storage temperature: -40...+85°C

Metal control stations and enclosures LPZM

Enclosures with cut-outs for Ø22mm units















LPZM6CA8

LPZM4CA8





LPZM5A8

LPZM8CA8

LPZM12CA8



LPZM16CA8

7-60

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

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

. .

LPZM6A8

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 0: 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	n° of rows	n° of rows
	(X, Y, Z) [mm (in)]	vertical	horizontal
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



Metal control stations and enclosures LPZM

Order code



7

Enclosures

hi.	-	2	4	
11	0-			
			ų.	
-	-			

LPZM1E8

LPZM3E8

LPZM1E5



LPZM2E8

		(X, Y, Z)	colour	per pkg.	
		[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
ř.	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

Dimensions

General characteristics

Qty Wt.

Cover

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)]

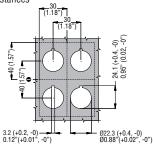
LPXAU120M WITH CONTACT ELEMENTS

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 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

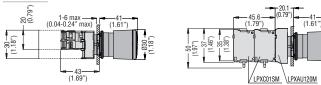


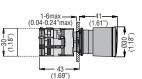
• When Faston contacts are used, the vertical pitch must be 85mm minimum

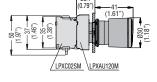
Mushroom-head pushbutton with auto-monitor contacts

LPXC01SM

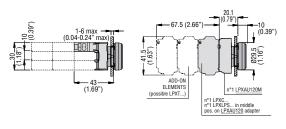
7.39"

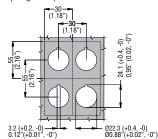






Flush pushbutton with test element and spring-clamp terminal contact or LED elements LPXCS... - LPXLPS...





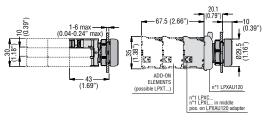
Flush pushbutton with Faston contact elements

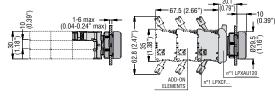
Drillings - Minimum recommended distances with spring-clamp terminal contact or LED elements

LPXC02SM

LPXAU120 WITH CONTACT ELEMENTS

Flush pushbutton with screw terminal contact or LED or test elements



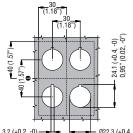


LPXC02SM

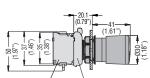
(1 61)

LPXC01SM LPXAU120

Drillings - Minimum recommended distances



Ø22.3 (+0.4, -0) Ø0.88"(+0.02", -0") ① 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")

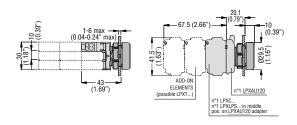
1-6max _____ (0.04-0.24"max) z

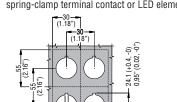
43-

LPXC01SM

åå

7-62





1.18]

spring-clamp terminal contact or LED elements

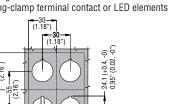
Ø22.3 (+0.4, -0) Ø0.88"(+0.02", -0")

(0.04-0.24"max)

(1.61")







Lovato electric

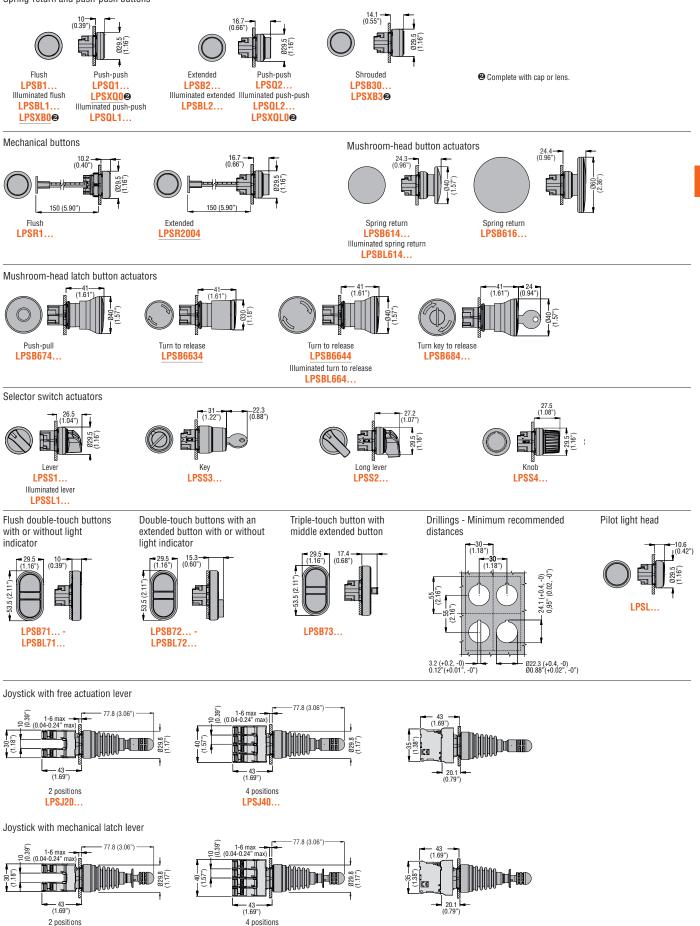
7

PLatinum series dimensions [mm (in)]

LPS TYPES

Spring-return and push-push buttons

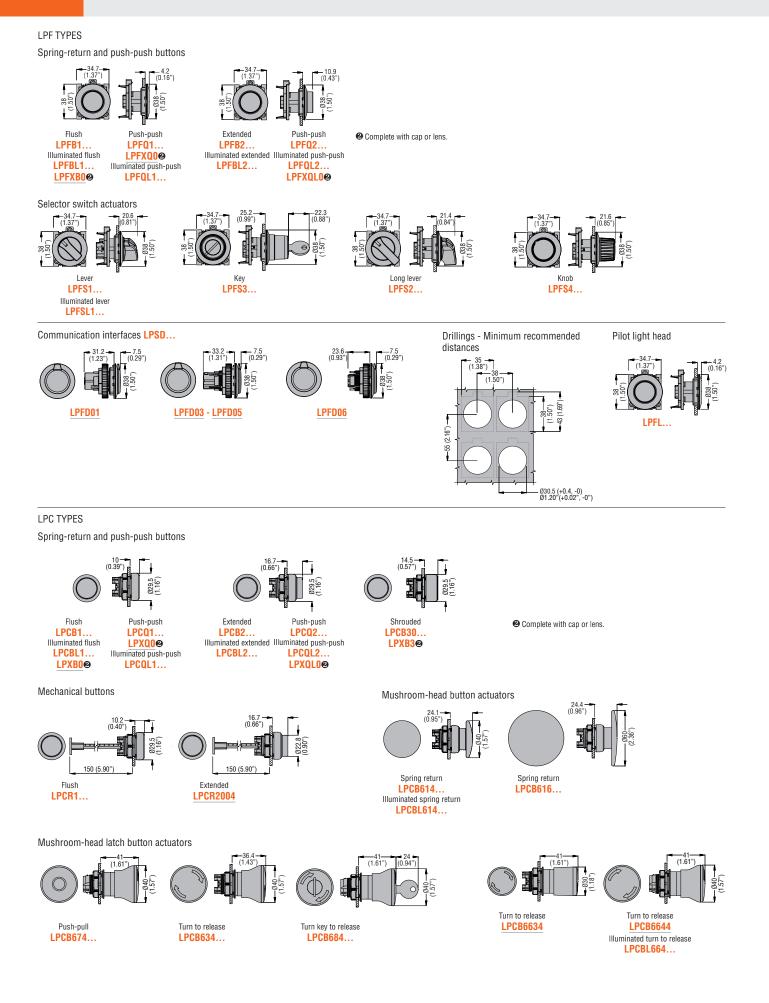
LPSJ21...



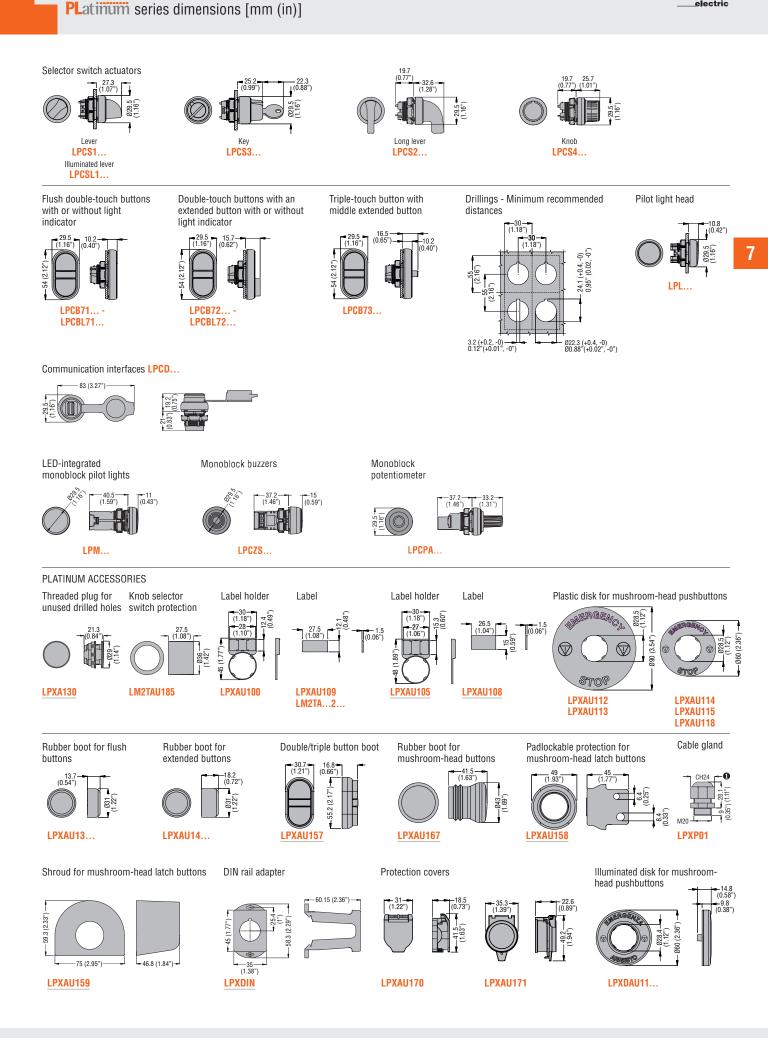
LPSJ41...

Lovato

PLatinum series dimensions [mm (in)]



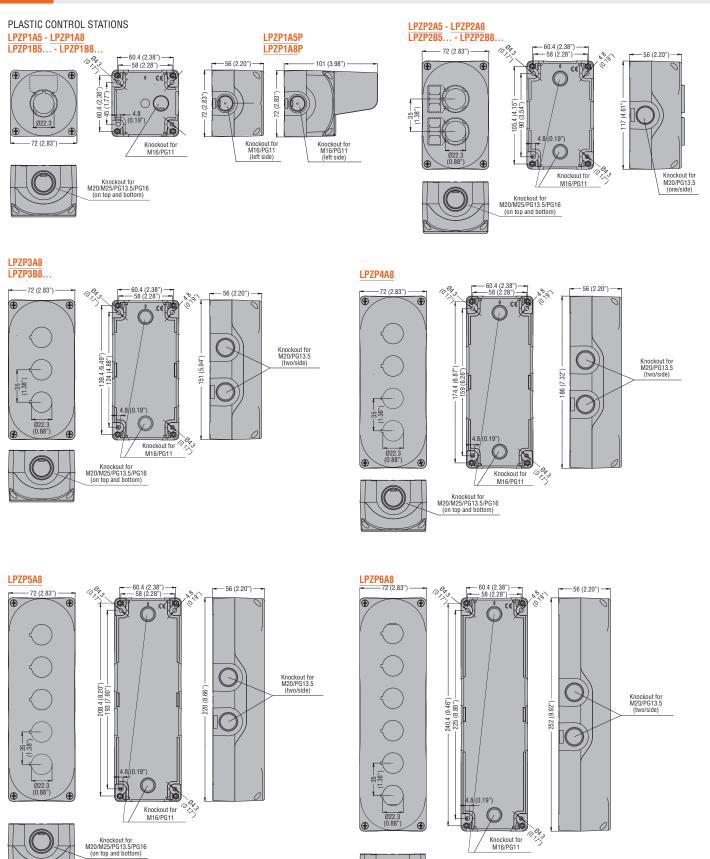
Lovato



Pushbuttons and selector switches 7

PLatinum series dimensions [mm (in)]

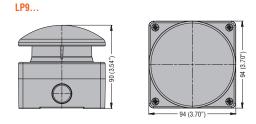




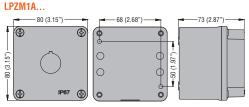
Knockout for M20/M25/PG13.5/PG16 (on top and bottom)

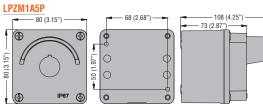


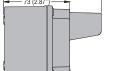
PALM SWITCHES



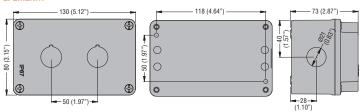
METAL CONTROL STATIONS



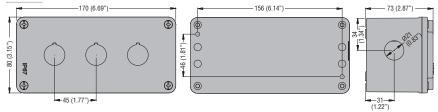




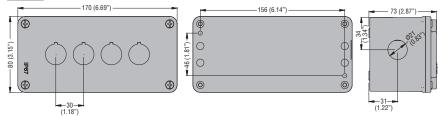
LPZM2A...



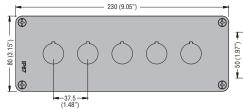
LPZM3A8

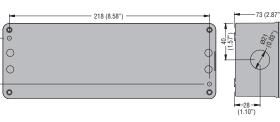


LPZM4A8

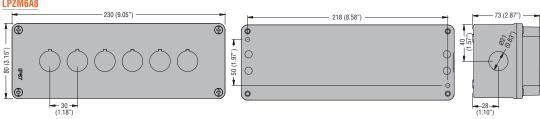


LPZM5A8



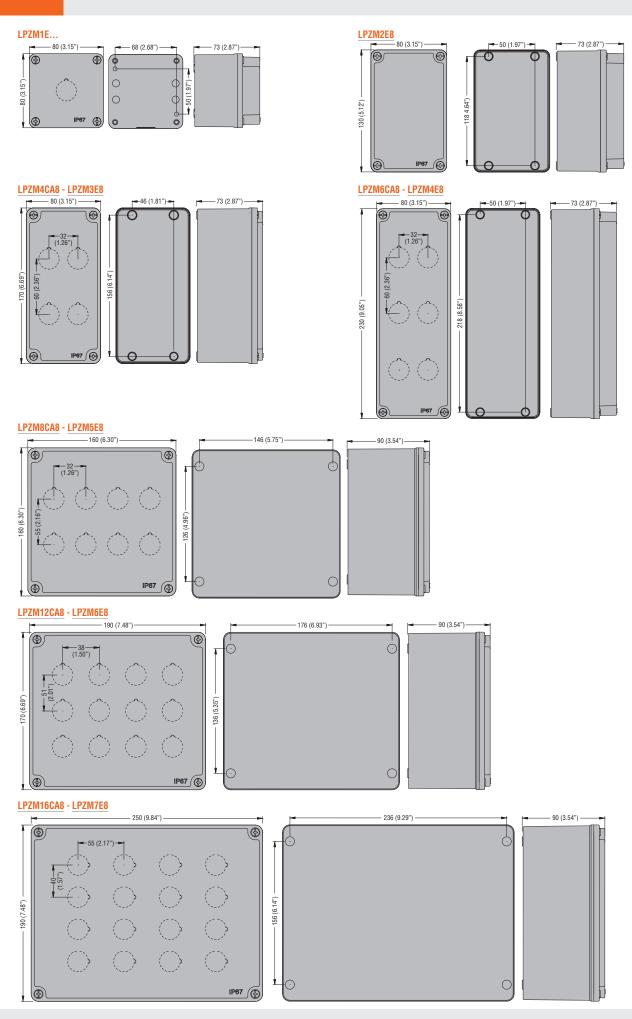


LPZM6A8



PLatinum series dimensions [mm (in)]



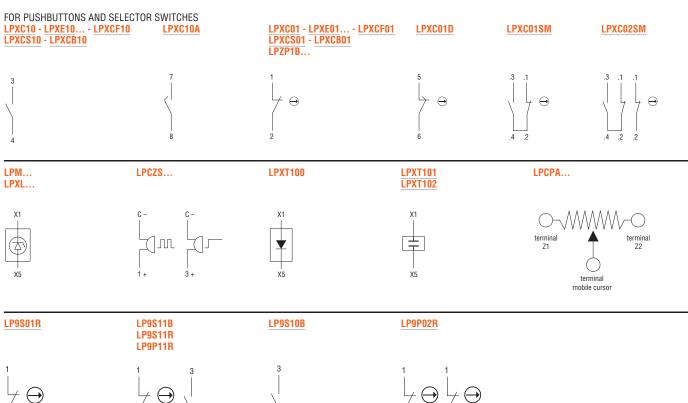


Lovato

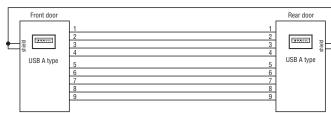
7-69



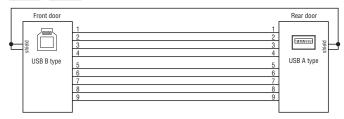




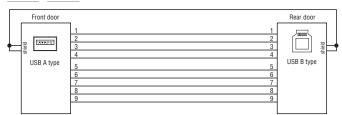
LPFD01 - LPCD01



LPFD05 - LPCD05



LPFD03 - LPCD03



LPFD06 -LPCD06

