Control and signalling **Pushbuttons and selector switches**



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

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PLatinum series

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BUTTON ACTUATORS

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



DOUBLE AND TRIPLE-TOUCH ACTUATORS

- · Double-touch with or without indicator
- Triple-touch.



SELECTOR SWITCHES

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



PILOT LIGHTS Ø22mm

· Monoblock LED.

MONOBLOCK BUZZERS Ø22mm

• Continuous or pulse tone.

COMMUNICATION INTERFACES

- USB.RJ45.



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.



JOYSTICKS Ø22mm

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



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.





A COMPLETE SERIES AT YOUR FINGERTIPS!



PLatinum

 HIGH DEGREE OF PROTECTION IP66, IP67 and IP69K

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

ELEGANT STYLE AND ERGONOMIC DESIGN

All the series elements have an ergonomic design and, at the same time, particular care has been given to the finest detail aesthetics.

LONG ACTUATOR MECHANICAL LIFE

High performance characteristics assure 5,000,000 cycle mechanical life for spring return actuators, 1,000,000 for double and triple touch units and 300,000 for emergency-stop types.

MATERIALS RESISTANT TO OILS, SOLVENTS AND **HYDROCARBONS**

CUSTOMIZATION

To facilitate warehouse management, it is possible to purchase spring return or push-push button actuators without caps or lenses and at the same time caps and lenses as spare parts. This allows for custom buttons to be completed from stock.



HIGH STANDARDIZATION

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

USAGE AT EXTREME TEMPERATURE CONDITIONS

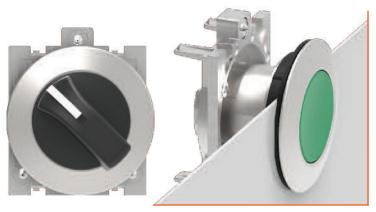
Operation temperature range between -25° and +70°C.

CERTIFICATIONS: cULus, EAC, RINA and CCC.



PLatinum series

Ø30mm flat metal LPF



- 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.

Ø22MM METAL LPS



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

PLatinum series

INDEX



QUICK AND EASY ACTUATOR INSTALLATION

Ø30mm FLAT METAL

 The operator fits into the Ø30mm panel hole with an adapter that retains it securely by two screws.



 The operator has a seal with rubber grommets which ensure stable fitting.



Ø22mm METAL

 The operator fits into the Ø22mm panel hole with an adapter that retains it securely by two screws.



 The operator has a seal with rubber grommets to ensure stable fitting.



Ø22mm CHROMED PLASTIC

 The operator mounts to the Ø22mm panel hole with a threaded ring.

The mounting base snaps onto the back of the operator itself.



- The operator has a seal with rubber grommets to ensure stable fitting.
- The anti-rotation lug on the operator collapses into the seal to enable installation even to round holes without an anti-rotation notch.
- The mounting plate and operators have clearly visible reference marks to facilitate snapping the operators onto the base.





CONTACT ELEMENTS

- Common to all PLatinum series operators.
- Miniaturised size
- High electric conductivity 5V 1mA
- Up to 9 contact elements can be installed
- Versions with screw, spring-clamp (push-in), Faston and base mount contact blocks for use with LPZP control stations
- Contact operation: double breaking action, direct (positive) action operation and wiping effect.
- Electrical contact and LED elements are snapped onto the mounting adapter.
- The activation of the middle contact is standard supplied on all non-illuminated spring return and push-push button or selector switch actuators.



CONTACT AND LED ELEMENTS WITH SPRING-CLAMP (PUSH-IN) TECHNOLOGY

PUSH-IN technology reduces the time required to connect stiff cables and cables with crimped terminals. The wire simply inserts into the clamp for a secure, sealed connection - no screwdriver needed!

The clamping force is long-lasting and unaffected by vibration and impact.

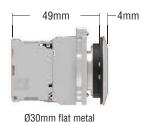
HIGH-LUMINOSITY LED ELEMENTS

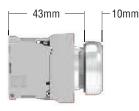
- Miniaturised size
- Long electrical life: 100,000h
- Versions with screw, spring-clamp (push-in) and for bottom of LPZP control stations
- Overvoltage protection
- Withstand vibrations
- Protection against stray currents in wiring
- Flickering phenomenon reduction
- Steady and flashing light versions
- Supply voltages: 12...30VAC/DC, 85...140VAC, 185...265VAC
- Test elements installed alongside and connected with the relative LED element allow checking if all LED elements of the installation are working properly.



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.







DOUBLE AND TRIPLE-TOUCH **ACTUATORS**



- IEC IP66, IP67, IP69K and UL Type 4X degree of protection
- Double-touch button actuators, with 2 flush or 1 flush and 1 extended buttons
- Triple-touch button actuators with 2 flush and middle extended butons
- Versions with or without indicator.

MECHANICAL RESET BUTTONS



Rod adjustment directly on acutator front (1...4mm/0.04...0.16")



- Up to 6 contact elements can be

EMERGENCY STOP ACTUATORS



- Actuator structure suitable to warrant direct opening operation with mechanical latching for emergency stopping per ISO 13850 and
- IEC/EN/BS 60947-5-5
 There is a green line around the actuator body to spot when the emergency stop is at rest or activated
- Use of Ronis key
- Various accessories available (e.g. yellow E-stop disks, padlockable protection, rubber actuator boots, label holders and labels)
- Auto-monitor contact elements are available with functions to:
 - · Constantly control the correct installation (mounting adapter and NC contact with the actuator) and proper operation of the NC contact
 - . Open the circuit in the case of malfunctions (e.g. the contact detaches from the mounting adapter due to strong vibrations or shock).



SELECTOR SWITCH ACTUATORS



Lever design assures excellent grip Option to differentiate the actuation of the central contact



High visibility on front or side and actuator inscription shows exact switch position



Use of Ronis ke



Activation of the middle contacts is standard supplied on 2 and 3 position selector switches.

PILOT LIGHTS



- Protection rating IP66, IP67, IP69K and UL Type 4X for LED monoblock pilot lights and pilot light heads
- Long life and low consumption
- Supply voltages:
- 110...120VAC, 230VAC, 380...415VAC 110...125VDC, 220VDC
- 12VAC/DC, 24VAC/DC, 48VAC/DC.

MONOBLOCK POTENTIOMETERS



- Potentiometer included in the product
- Protection rating IP66, IP67 and IP69K and UL Type 4X
- Resistance values from 1 to $500k\Omega$.

ADAPTER FOR Ø30MM HOLES



- Allows installation of Ø22mm operators in Ø30mm holes
- Two versions; one for buttons and selector switches and one for emergency buttons.

MONOBLOCK BUZZERS



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

COMMUNICATION INTERFACES



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

JOYSTICKS



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

ACCESSORIES



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

PLASTIC CONTROL STATIONS



- Protection rating IP66, IP67, IP69K and Type 4X per UL
- 1 to 6 hole empty versions Complete 1 to 3 operator versions in a variety of combinations
- Quick installation and easy cabling of the contacts and LED elements with mounting to the bottom (snap
- 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**



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.

Pushbuttons and selector switches

Order code

LPSB102

Colour

Black

Blue

White

Flush (without mounting adapter). Spring return.

PLatinum series

Ø22mm metal



Pushbutton actuators, spring return



LPSB10...

LPSB30...

actuators

Push-push button

LPSB103	Green	5	0.031
LPSB104	Red	5	0.031
LPSB105	Yellow	5	0.031
LPSB106	Blue	5	0.031
LPSB108	White	5	0.031
Extended (withou	it 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 (withou	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
	LPSB104 LPSB105 LPSB106 LPSB108 Extended (without LPSB202 LPSB203 LPSB204 LPSB205 LPSB206 LPSB208 Shrouded (without LPSB302 LPSB303 LPSB304	LPSB104 Red LPSB105 Yellow LPSB106 Blue LPSB108 White Extended (without mounting adapter). S LPSB202 Black LPSB203 Green LPSB204 Red LPSB205 Yellow LPSB206 Blue LPSB208 White Shrouded (without mounting adapter). S LPSB302 Black LPSB303 Green LPSB304 Red	LPSB104 Red 5 LPSB105 Yellow 5 LPSB106 Blue 5 LPSB108 White 5 Extended (without mounting adapter). Spring return. LPSB202 Black 5 LPSB203 Green 5 LPSB204 Red 5 LPSB204 Red 5 LPSB205 Yellow 1 LPSB205 Yellow 1 LPSB206 Blue 1 LPSB208 White 1 Spring return. LPSB302 Black 5 LPSB303 Green 5 LPSB304 Red 5

LPSB306

LPSB308

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without r Push on-push o	nounting adapter). ff.		
LPSQ1020	Black	5	0.031
LPSQ1030	Green	5	0.031
LPSQ1040	Red	5	0.031
LPSQ1050	Yellow	1	0.031
I D004000	Dive	4	0.001

new

LPSQ2050

LPSQ2060



LPSQ20...

LPSQ10...

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	

L	PSQ2080	White	1	0.033
0		ts LPXC10A (EM) and LPXC01 PXC10 (NO) and LPXC01D (LB		d on these

1

Yellow

Blue

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

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.

Qty

n°

per pkg

Wt

[kg]

0.031

0.033

0.033

0.033

0.033

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 cyclesPush-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 LPX	AU120M mounting ad

adapter (to purchase separately).

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

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

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

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

Up to 3 contacts can be fitted per control station.

-		
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.

Mechanical reset buttons, complete unit, spring return

PLatinum series

Ø22mm metal



LPSR1196



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

Flush (5.2mm/0.2" stroke). Adjustable length 0-150mm/5.9".

Complete with Shart (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/0.2" stroke). Adjustable length 0-150mm/5.9". Complete with shaft (without mounting adapter). Spring return. LPSR2004 0.046

With "RESET" caption on actuator

Order code

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

Symbol

Pushbutton actuators, spring return, with symbol



LPSB11...





LPSB21...

			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	II	Green	1	0.031	
LPSB1128		White	1	0.031	
LPSB1132	STOP	Black	1	0.031	
LPSB1134		Red	5	0.031	
LPSB1142	← 0	Black	5	0.031	
LPSB1148	- 0	White	5	0.031	
LPSB1152	1 0	Black	5	0.031	
LPSB1158	l e	White	5	0.031	
LPSB1163	START	Green	5	0.031	
LPSB1168		White	1	0.031	
LPSB1176	R	Blue	1	0.031	
LPSB1178		White	1	0.031	
LPSB1196	RESET	Blue	5	0.031	
LPSB1502	→	Black	5	0.031	
LPSB1512	→	Black	5	0.031	
Extended (withou	it mounting a	dapter). S	pring return.		
LPSB2102	0	Black	5	0.033	
LPSB2104		Red	5	0.033	

LPSB2132	STOP	Black	1		
LPSB2134		Red	5		
Arrow symbol can be used to indicate right or left					

Pushbutton actuators, spring return, with special symbols



LPSB...



Order code	Symbol	Colour	Qty per pkg	Wt
			n°	[kg]
Spring return (with	out mounting	adapter).		
LPSB0@18@	40	0	50	0.033
LPSB0@34@	MAN	8	50	0.033
LPSB0@35@	AUT0	0	50	0.033
LP\$B0@22@	1	8	50	0.033
LPSB0@23@		8	50	0.033

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.
- 6 Consult Technical support for assistance; see contact details or inside front cover.
- 3 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 A 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.

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

Wt

[ka]

0.033

0.033

Qty

per pkg

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

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

Туре	Termination
------	-------------

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

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

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 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.

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 elements can be fitted to the adapter when used with the LPZ... 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.

² Arrow symbol can be used to indicate up or down.

Pushbuttons and selector switches

PLatinum series Ø22mm metal

new

Mushroom head pushbutton actuators



LPSB614...



LPSB674...





new





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

SPRING RETURN.

Ø40mm/1.57" (without mounting adapter).

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
G00 (0.00) ()			

Ø60mm/2.36" (without mounting adapter).

20011111, 2100 (1111110 at 1110 at 111			
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 RELEASE.

Ø40mm/1.57" (without mounting adapter).

For normal stopping.				
LPSB6742	Black	5	0.102	
For emergency stopping, ISO 13850 compliant.				
LPSB6744	Red	5	0.102	
LATCH, TURN TO RELEASE. Ø30mm/1.18" (without mounting adapter).				

For emergency stopping, ISO 13850 compliant. LPSB6634 Red 5

0.048 Ø40mm/1.57" (without mounting adapter). For normal stopping

LPSB6642 0.051 Black Ø40mm/1.57" (without mounting adapter)

For emergency stopping, ISO 13850 compliant. LPSB6644 Red 0.084

LATCH, TURN KEY TO RELEASE.

Ø40mm/1.57" (without mounting adapter). Key code n° 455. For normal stopping.

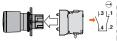
LPSB6842	Віаск	5	0.088
LPSB6842RO	Black	1	0.088
For emergency stopp	ing, ISO 13850	compliant.	
LPSB6844	Red	5	0.088
I PSR684/IRA	Red	1	0.088

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: LPSB6844R421E.

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

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

With contact type LPXC01SM (1NC)



Contact .3-.4 closes when the LPXAU12DM mounting adapter and LPX...SM contact are fitted correctly on the mushroom-head latch actuator. Contact .1-.2 in series does not change state.

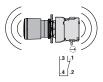




When the button is fully pressed, contact .1-.2 opens and remains in this state until the button is released.
Contact .3-.4 in series does not change state.

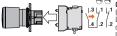
If the contact LPXC01SM detaches from the actuator due to **strong vibrations or shock**, the equipment can be restored to operating state only when proper mounting of the contact with the actuator is reestablished resulting in **contact .3-.4 closing.**

If the contact LPX CO2SM detaches from the actuator





With contact type LPXC02SM (2NC)



Contact .3-.4 closes when the LPXAU120M mounting adapter and LPX...SM contact are fitted correctly on the mushroom-head Both contacts .1-.2 in series do not change state. latch actuator









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.

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.

Туре	Termination
------	-------------

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.

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 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.

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.

PLatinum series

Ø22mm metal

Double-touch actuators, spring return



INDEX



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

Two flush pushbuttons (without mounting adapter). Both spring return

both spring rotal	Both Spring rotarn.			
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

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

Triple-touch actuators, spring return



LPSB73..

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

One middle extended buttons (without mounting adapter). Spring return.

LPSB7345	 STOP 	5	0.035
LPSB7355	STOP	5	0.035
LPSB7365	STOP	5	0.035
LPSB7375	STOP	5	0.035

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

See page 7-37 and 7-38.

Туре	Termination
For all account to account and	- LDVALI400M

Front-mount types snap onto <u>LPXAU1</u>20M 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

The $\underline{\text{LPXAU120M}}$ 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

LPXC10	Screw
LPXCF10	Faston
LPXCS10	Spring clamp
LPXC10A	Screw
LPXC01	Screw
LPXCF01	Faston
LPXCS01	Spring clamp
LPXC01D	Screw
	LPXCF10 LPXCS10 LPXC10A LPXC01 LPXCF01 LPXCS01

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

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.



Pushbuttons and selector switches

Order code

LPSS221

LPSS230

LPSS231

LPSS232

LPSS233

LPSS330

new

PLatinum series Ø22mm metal



Selector switch actuators





Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (withou	it mounting adapter).		
LPSS120	<u></u>	5	0.042
LPSS121	∇	5	0.042
3 positions (withou	it mounting adapter).		
LPSS130	\downarrow	5	0.042
LPSS131	4	5	0.042
LPSS132	<√	5	0.042
LPSS133	1	5	0.042

Type of

2 positions (without mounting adapter).

3 positions (without mounting adapter).

positions

Selector switch actuators long lever





LPSS2...

Selector switch actuators key (Ronis)



LPSS3...

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (withou	t mounting adapter).		
LPSS320	• ,	5	0.065
LPSS320RO		1	0.065
LPSS321	• • •	5	0.065
LPSS321RO		1	0.065
LPSS340	• • • • • • • • • • • • • • • • • • • •	5	0.065
LPSS340R@		1	0.065
3 positions (without mounting adapter).			

LPSS330RO		1	0.065
LPSS331	• • •	5	0.065
LPSS331RO		1	0.065
LPSS332@	•	5	0.065
LPSS332R ⊕ @		1	0.065
LPSS333@	\1.°	5	0.065
LPSS333R ⊕ @		1	0.065
LPSS350	<u> </u>	5	0.065
LPSS350RO	`\\\	1	0.065
LPSS360	12	5	0.065
LPSS360RO	\\frac{\psi}{2}	1	0.065
LPSS370@	(1)	5	0.065
LPSS370R⊕@	Ψ.	1	0.065
LPSS380@	√.	5	0.065
LPSS380R ⊕ @] \\frac{\frac{1}{2}}{2}	1	0.065
LPSS390@	\$10	5	0.065
LPSS390R ⊙ ⊘	\ \frac{\psi}{\psi}	1	0.065

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

Available only on specific request.

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.

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.

Wt

[kg]

0.045

0.045

0.045

0.045

0.045

0.045

0.065

per pkg

5

5

5

5

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

Contact elements

See page 7-37 and 7-38.

Туре	Termination
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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.

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

1NO	LPXCB10	Screw
1NC	LPXCB01	Screw

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



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

Type of position

Maintained position.

Spring return position.

· Key extraction position.

Rotation angles

2 positions

3 positions





Certifications and compliance

Certifications: cULus.

PLatinum series Ø22mm metal

Selector switch actuators



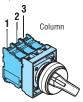


Pushbuttons and selector switches

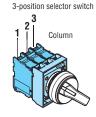
Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (withou	t mounting adapter).		
LPSS420	\	5	0.042
LPSS421	\Diamond	5	0.042
3 positions (without mounting adapter).			
LPSS430	\checkmark	5	0.042
LPSS431	4	5	0.042
LPSS432	$\langle \rangle$	5	0.042
LPSS433	1	5	0.042

Contact activation

2-position selector switch

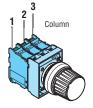


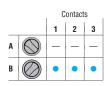
	Contacts		
	1	2	3
A	_	_	_
В	•	•	•



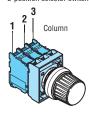
	C	ontact	S
	1	2	3
A	•	•	_
В	_	_	_
С	_	•	•

2-position selector switch





3-position selector switch



	С	ontact	S
	1	2	3
A	•	•	_
В	_	_	_
C	_	•	•

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.

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.

Type Termin

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.

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

1NO	LPXCB10	Screw
1NC	LPXCB01	Screw

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



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

Type of position

Maintained position.

Spring return position.

Rotation angles

2 positions





Certifications and compliance

Certifications: cULus.

Pushbuttons and selector switches

PLatinum series Ø22mm metal

Illuminated button actuators, spring return



LPSBL10...

LPSBL20...



	LPS
	LPSI
	LPS
	LPS
N	LPSI
	Exte
	LPSI

LPSBL207

Order code

Colour	Qty per pkg	Wt
	n°	[kg]
ounting adapter). Sprin	g return.	
Green	5	0.030
Red	5	0.030
Yellow	5	0.030
Blue	5	0.030
Transparent	5	0.030
t mounting adapter). S	pring return	
Green	5	0.032
Red	5	0.032
Yellow	5	0.032
Blue	5	0.032
	ounting adapter). Sprin Green Red Yellow Blue Transparent t mounting adapter). S Green Red Yellow	per pkg n° pounting adapter). Spring return. Green 5 Red 5 Yellow 5 Blue 5 Transparent 5 t mounting adapter). Spring return Green 5 Red 5 Yellow 5 Transparent 5 Transparent 5 Transparent 5

5

Qty

n°

per pkg

0.032

Wt

[kg]

Wt

Qty per pkg

Transparent

Colour

Flush (without mounting adapter).

Illuminated	push-push
button actu	ators



LPSQL10...

LPSQL20...



Push on-push off.				
LPSQL1030	Green	5	0.030	
LPSQL1040	Red	5	0.030	
LPSQL1050	Yellow	5	0.030	
LPSQL1060	Blue	5	0.030	
LPSQL1070	Transparent	5	0.030	
Extended (without mounting adapter).				

Push on-push off.

Order code

Green	5	0.032
Red	5	0.032
Yellow	5	0.032
Blue	5	0.032
Transparent	5	0.032
	Red Yellow Blue	Red 5 Yellow 5 Blue 5

Use contact elements LPXC10A (EM) and LPXC01 (NC) only.

Contact elements LPXC10 (NO) and LPXC01D (LB) cannot be fitted on these

Colour

Illuminated mushroom head button actuators



LPSBI 614...





		n°	[kg]
SPRING RETURN. Ø40mm/1.57" (without mounting adapter).			
LPSBL6143	Green	5	0.040
LPSBL6144	Red	5	0.040
LPSBL6145	Yellow	5	0.040
LPSBL6146	Blue	5	0.040
LPSBL6148	White	1	0.040
LATCH, TURN TO RELEASE.			

Ø40mm/1.57" (without mounting adapter).

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

Operational characteristics

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

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

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

See page 7-37 and 7-38.

middle position.

туре	Termination
Front-mount types snap onto LP	XAU120M mounting adapter
(to nurchase senarately)	

For types LPSBL1/BL2/BL61... up to 6 contacts can be fitted:

Tarmination

3 each on the left and right, one behind the other. For types LPSBL66... up to 4 contacts can be fitted:

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

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.

LPXC10A (1EM) Type:

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.

Double-touch actuators, spring return, white indicator



LPSBL71...



LPSBL72...

Order code	Colour	Symbol	Qty per pkg	Wt
			n°	[kg]
T 0 1 1				

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	↑	5	0.035

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

adaptor). Both opining rotarn.				
LPSBL7212	Black/Red		1	0.035
LPSBL7213	Green/Red		5	0.035
LPSBL7214	White/Black		1	0.035
LPSBL7222	Black/Red	I-0	1	0.035
LPSBL7223	Green/Red	I-0	5	0.035
LPSBL7224	White/Black	I-0	5	0.035
LPSBL7233	Green/Red	Start/Stop	5	0.035

Illuminated selector switch actuators



LPSSL1...



Order code

LPSSL1215

LPSSL1216

LPSSL1218

			111	[ry]
2 positions (without mounting adapter).				
LPSSL1203	Green		5	0.030
LPSSL1204	Red		5	0.030
LPSSL1205	Yellow		5	0.030
LPSSL1206	Blue		5	0.030
LPSSL1208	White		5	0.030
LPSSL1213	Green		5	0.030
LPSSL1214	Red	1	1	0.030

Type of

Qtv

1

5

positions per pkg

Wt

[kn]

0.030

0.030

0.030

White 3 positions (without mounting adapter)

Yellow

Blue

Colour

LPSSL1303	Green	. 1 .	5	0.030
LPSSL1304	Red	\forall	5	0.030
LPSSL1305	Yellow		5	0.030
LPSSL1306	Blue		5	0.030
LPSSL1308	White		5	0.030
LPSSL1313	Green	. CID.	5	0.030
LPSSL1314	Red	4	1	0.030
LPSSL1315	Yellow		1	0.030
LPSSL1316	Blue		1	0.030
LPSSL1318	White		5	0.030
LPSSL1323	Green	<u></u>	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	. 15.	5	0.030
LPSSL1334	Red	1	1	0.030
LPSSL1335	Yellow		1	0.030
LPSSL1336	Blue		1	0.030
LPSSL1338	White		5	0.030

Operational characteristics

- Any mounting position allowed Ambient conditions:

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

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.

Туре	Termination
Front-mount types enan onto I D	ALI120M mounting

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.

Spring return position.

Selector switch rotation angles 2 positions 3 positions





LED light elements

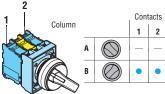
See pages 7-39 to 42.

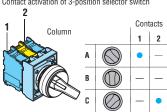
Certifications and compliance

Certifications: cULus.

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

Contact activation of 2-position selector switch





Contact activation of 3-pc	sitic	n selector	switch	
4 Ī			Cont	tacts
Column			1	2
	Α		•	_
	В		_	_
	C		_	•

7 Pushbuttons and selector switches

PLatinum series Ø22mm metal



Pilot light heads





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

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

Operational characteristics

- Any mounting position allowed
 Ambient conditions:

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

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 elementsSee 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.

Order code

LPSJ200

LPSJ201

LPSJ400

LPSJ401

LPSJ210

LPSJ211

LPSJ410

LPSJ411

Type of

nositions

With mechanical interlock in centre position. Complete with auxiliary contact. Label holder excluded

INDEX

PLatinum series Ø22mm metal

Joysticks



LPS.I4.. (without mechanical interlock)

new

		ne) (

LPSJ2... (with mechanical interlock)

Accessories



LPXAU101

Order code	Description	Qty per pkg	Wt
		n°	[kg]
LPXAU101	2-4 directional holder for adhesive legends •	1	0.004

1 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.

N° auxiliary Qty

per pkg

n°

elements

NO

2

2

4

4

2

4

Without mechanical interlock. Complete with auxiliary contact. Label holder excluded.

Wt

[kg]

0.082

0.082

0 104

0.104

0.082

0.082

0.104

0 104

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	
IEC/E	EN 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: $\leq 20 \text{m}\Omega$.

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).

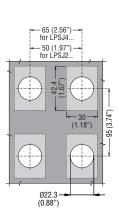
The joystick latches onto the mounting adapter by simple rotation.

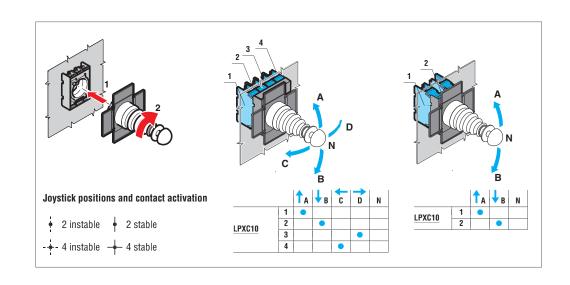
Contact elements snap onto the mounting adapter. 2 LPXC... contacts are mounted on joystick LPSJ2... type and 4 LPXC... contacts on LPSJ4... type. The mounting adapter and contact elements of LPSJ2...

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

Certifications and compliance

Certifications: cULus.





Pushbuttons and selector switches

PLatinum series Ø30mm flat metal



Pushbutton actuators, spring return





Push-push button

LPFB20...

actuators

new

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without m	ounting adapter). Sprin	g return.	
LPFB102	Black	5	0.060
LPFB103	Green	5	0.060
LPFB104	Red	5	0.060
LPFB105	Yellow	5	0.060
LPFB106	Blue	5	0.060
LPFB108	White	5	0.060
Extended (withou	t mounting adapter). S	pring 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

0.40. 0040	00.00.	per pkg		
		n°	[kg]	
Flush (without mounting adapter). Push on-push off.				
LPFQ1020	Black	5	0.060	
LPFQ103€	Green	5	0.060	
LPFQ1040	Red	5	0.060	
LPFQ105€	Yellow	1	0.060	
LPFQ106€	Blue	1	0.060	
LPFQ108€	White	1	0.060	
Extended (without mounting adapter). Push on-push off.				

Order code Colour

Qtv Wt



1		98			
		Ĺ,	_		
/				h	
	1			h	ŀ
ı					
L	4			y	

LPFQ20...

r don on publican.				
LPFQ202€	Black	5	0.062	
LPFQ203€	Green	5	0.062	
LPFQ204€	Red	5	0.062	
LPFQ205€	Yellow	1	0.062	
LPFQ206€	Blue	1	0.062	
LPFQ208€	White	1	0.062	
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

Operational characteristics

- Any mounting position allowedAmbient 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.

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 cyclesPush-push actuators: 500,000 cycles.

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

The actuators fit into a Ø30mm/Ø1.18" hole. The fixing of the base to the mounting surface is made using the adapter supplied with the actuator and the screws incorporated in the base (Tmax = 0.8Nm/7lb.in).

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

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:

LPXC01 (1NC)
Up to 6 contacts can be fitted: 2 each on the left, middle and right, one behind the other.

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

Certifications and compliance

Certifications: cULus.

PLatinum series

Ø30mm flat metal

Pushbutton actuators, spring return, with symbol



INDEX



LPFB21...



Order code	Symbol	Colour	Qty per pkg	Wt
			n°	[kg]
Flush (without m	ounting adapt	ter). Sprin	g return.	
LPFB1102	0	Black	5	0.060
LPFB1104		Red	5	0.060
LPFB1113	1	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		Black	5	0.060
LPFB1148	← 0	White	5	0.060
LPFB1152	10	Black	5	0.060
LPFB1158		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 (withou	t mounting a	dapter). S	pring return.	
LPFB2102	0	Black	5	0.062
LPFB2104		Red	5	0.062
LPFB2132	STOP	Black	1	0.062
LPFB2134		Red	5	0.062

- 1 Arrow symbol can be used to indicate right or left.
- 2 Arrow symbol can be used to indicate up or down.

Symbol

Pushbutton actuators, spring return, with special symbols



LPFB...

96			per pkg		
			n°	[kg]	
Spring return (without mounting adapter).					
LPFB0@18® / 6					
LPFB@@34@	MAN	8	50	0.062	

6

0

❸

Colour Qty

50

50

50

Wt

0.062

0.062

0.062

Order code

LPFB0@35@

LPFB@22@

LPFB@23@

new

AUTO

- 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.
- **3** 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 🛝 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.

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

Mechanical endurance

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

Mounting adapter

See page 7-36. Type: LPXAU120M.

The actuators fit into a Ø30mm/Ø1.18" hole. The fixing of the base to the mounting surface is made using the adapter supplied with the actuator and the screws incorporated in the base (Tmax = 0.8Nm/7lb.in).

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

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	

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

Certifications and compliance

Certifications: cULus.

LPFS1...

long lever

LPFS2...

Pushbuttons and selector switches

PLatinum series

Ø30mm flat metal



Selector switch actuators





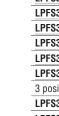
Selector switch actuators





Selector switch actuators key (Ronis)





Order code

	ш
	LP
	LP
new	LP
HEW	ΙP

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (withou	t mounting adapter).		
LPFS120	<u></u>	5	0.062
LPFS121	∇	5	0.062
3 positions (withou	t mounting adapter).		
LPFS130	\vee	5	0.062
LPFS131	47	5	0.062
LPFS132	⟨√	5	0.062
LPFS133	1	5	0.062

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (withou	t mounting adapter).		
LPF\$220	<u> </u>	5	0.065
LPF\$221	♥	5	0.065
3 positions (withou	t mounting adapter).		
LPFS230	\vee	5	0.065
LPF\$231	4	5	0.065
LPF\$232	<√/	5	0.065
LPF\$233	1	5	0.065

Type of

Qty

Wt

	positions	per pkg	
		n°	[kg]
2 positions (without	out mounting adapter).		
LPFS320	• ,	5	0.095
LPFS320R€		1	0.095
LPFS321	• •	5	0.095
LPFS321R€		1	0.095
LPFS340	•,-,	5	0.095
LPFS340R€		1	0.095
3 positions (without	out mounting adapter).		
LPFS330	•	5	0.095
LPFS330R€		1	0.095
LPFS331	• • •	5	0.095
LPFS331R€		1	0.095
LPFS332@	• 17	5	0.095
LPFS332R ⊙ ❷		1	0.095
LPFS333@	\•	5	0.095
LPFS333R❶❷		1	0.095
LPFS350	4	5	0.095
LPFS350R€	<u>`</u> V	1	0.095
LPFS360	•	5	0.095
LPFS360R€		1	0.095
LPFS370@	-	5	0.095
LPFS370R❶❷	\parallel	1	0.095
LPFS380@	(1.2°	5	0.095
LPFS380R ⊙	7	1	0.095
LPFS390@	•	5	0.095
LPFS390R@	7	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.
- 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.

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
Type	IGIIIIIIalioii

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.

Spring return position.

· Key extraction position.

Rotation angles

2 positions





Certifications and compliance

Certifications: cUL us

Pushbuttons and selector switches

PLatinum series Ø30mm flat metal

Selector switch actuators



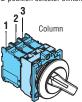


LPFS4..

Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (withou	ut mounting adapter).		
LPFS420	V	5	0.072
LPFS421	∇	5	0.072
3 positions (withou	ut mounting adapter).		
LPFS430	₩	5	0.072
LPFS431	AD	5	0.072
LPFS432	\checkmark \checkmark	5	0.072
LPFS433	1	5	0.072

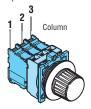
Contact activation

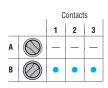
2-position selector switch



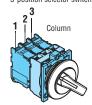
1 2 3 A		Contacts			
		1	2	3	
B	A	_	_	_	
	В	•	•	•	

2-position knob selector switch



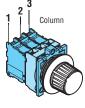


3-position selector switch



	Contacts				
	1	2	3		
A	•	•	_		
В	_	_	_		
C	_	•	•		

3-position knob selector switch



	С	ontact	S
	1	2	3
Α	•	•	_
В	_	_	_
C	_	•	•

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.

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.

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.

Spring return position.

Rotation angles

2 positions



Certifications and compliance

Certifications: cULus.

Pushbuttons and selector switches

PLatinum series Ø30mm flat metal



Illuminated button actuators, spring return



LPFBL10...



new

014	
ew	

Order code

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 (without mounting adapter		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

LIIDI			
	 _	 	

Illuminated push-push **button actuators**



LPFQL10...



LPFQL20...

		per pkg			
		n°	[kg]		
Flush (without mounting adapter). Push on-push off.					
LPFQL103€	Green	5	0.070		
LPFQL104€	Red	5	0.070		
LPFQL105€	Yellow	5	0.070		
LPFQL106€	Blue	5	0.070		
LPFQL107€	Transparent	5	0.070		
Extended (without mounting adapter). Push on-push off.					

Colour

LPFQL203€	Green	5	0.072
LPFQL2040	Red	5	0.072
LPFQL205€	Yellow	5	0.072
LPFQL206€	Blue	5	0.072
LPFQL207 ⊙	Transparent	5	0.072

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

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.

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

Mechanical endurance

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

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

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

The actuators fit into a Ø30mm/Ø1.18" hole. The fixing of the base to the mounting surface is made using the adapter supplied with the actuator and the screws incorporated in the base (Tmax = 0.8Nm/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 e one behind the other.	ach on the left and right,

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.

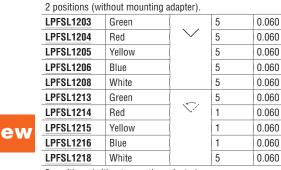
Order code

PLatinum series Ø30mm flat metal

Illuminated selector switch actuators



LPFSL1...



Colour

Type of

positions

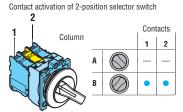
Qty

n°

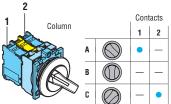
per pkg

Wt

[kg]



Contact activation of 3-position selector switch



LPFSL1216	Blue		1	0.060	
LPFSL1218	White		5	0.060	
3 positions (without mounting adapter).					
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	(D)	5	0.060	
LPFSL1314	Red	W	1	0.060	
LPFSL1315	Yellow		1	0.060	
LPFSL1316	Blue		1	0.060	
LPFSL1318	White		5	0.060	
LPFSL1323	Green	(I)	5	0.060	
LPFSL1324	Red	\ \V	1	0.060	
LPFSL1325	Yellow		1	0.060	
LPFSL1326	Blue		1	0.060	
LPFSL1328	White		5	0.060	
LPFSL1333	Green	. 15	5	0.060	
LPFSL1334	Red	1	1	0.060	
LPFSL1335	Yellow		1	0.060	
LPFSL1336	Blue		1	0.060	
LPFSL1338	White		5	0.060	

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.

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.

Type	Termination
Front-mount types snap onto LPX	(AU120M mounting adapte
(to nurchace congrately)	

Up to 4 contacts can be fitted: 2 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

Selector switch type of positions

LPXC01D

Maintained position.

Spring return position.

Selector switch rotation angles 3 positions

2 positions



1LB



Screw

See pages 7-39 to 42.

LED light elements

Certifications and compliance

Certifications: cULus.

7 Pushbuttons and selector switches

PLatinum series Ø30mm flat metal



Pilot light heads





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 0	5	0.054

• 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.

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 elementsSee 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.

PLatinum series Ø30mm flat metal

USB and RJ45 communication interfaces





LPFD01



LPFD01L...



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 LPFD06: 0.6A
 Rated current for LPFD06: 0.6A

- Insulation resistance: ≥100M0hm
- Contact resistance for LPFD01, LPFD03, LPFD05:
- 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 n° 14.

Pushbuttons and selector switches

Order code

PLatinum series Ø22mm chromed plastic



Pushbutton actuators, spring return







Push-push button actuators



LPCQ10...



LPCQ20...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without	mounting adapter)	. Spring return.	
LPCB102	Black	10	0.025
LPCB103	Green	10	0.025
LPCB104	Red	10	0.025
LPCB105	Yellow	10	0.025
LPCB106	Blue	10	0.025
LPCB108	White	10	0.025
Extended (with	out mounting adap	ter). Spring return	١.
LPCB202	Black	10	0.027
LPCB203	Green	10	0.027
LPCB204	Red	10	0.027
LPCB205	Yellow	1	0.027
LPCB206	Blue	1	0.027
LPCB208	White	1	0.027
Shrouded (with	nout mounting ada	pter). Spring retur	n.
LPCB302	Black	10	0.027
LPCB303	Green	10	0.027
LPCB304	Red	10	0.027
LPCB305	Yellow	1	0.027
LPCB306	Blue	1	0.027
LPCB308	White	1	0.027

		per pkg		
		n°	[kg]	
Flush (without m Push on-push of				
LPCQ1020	Black	10	0.025	
LPCQ1030	Green	10	0.025	
LPCQ1040	Red	10	0.025	
LPCQ105€	Yellow	1	0.025	
LPCQ106€	Blue	1	0.025	
LPCQ108€	White	1	0.025	
Extended (without mounting adapter).				

Qtv

Wt

Colour

Push on-push off.			
LPCQ2020	Black	10	0.027
LPCQ203€	Green	10	0.027
LPCQ2040	Red	10	0.027
LPCQ2050	Yellow	1	0.027
LPCQ206€	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

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

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.

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 $\emptyset22mm/\emptyset0.87$ " 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.

Гуре	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.

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

Contact elements for push-push button actuators

See page 7-37.

LPXC10A (1EM) 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

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 n° 14.

PLatinum series Ø22mm chromed plastic

INDEX

Mechanical rest buttons, complete unit, spring return



Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (5.2mm/0.2" stroke). Adjustable length 0-150mm/5.9".			

Complete with shaft (without mounting adapter). Spring return.

LPCR1002	Black	10	0.038
LPCR1003	Green	10	0.038
LPCR1004	Red	10	0.038
LPCR1006	Blue	10	0.038
LPCR1196€	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

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

Symbol

Order code

Pushbutton actuators, spring return, with symbol





LPCB21...

			П	[KG]	
Flush (without mounting adapter). Spring 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	— U	White	10	0.025	
LPCB1152	10	Black	10	0.025	
LPCB1158		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 (withou	Extended (without mounting adapter). Spring return.				
LPCB2102	0	Black	10	0.027	
LPCB2104		Red	10	0.027	
LPCB2132	STOP	Black	1	0.027	

1 Arrow symbol can be used to indicate right or left.

LPCB2134

Arrow symbol can be used to indicate up or down.

Pushbutton actuators, spring return, with special symbols



LPCB..

Order code	Symbol	Colour	Qty per pkg	Wt	
			n°	[kg]	
Spring return (with	Spring return (without mounting adapter).				
LPCB@@18@	40	8	50	0.027	
LPCB@@34@	MAN	8	50	0.027	
LPCB 0 @35®	AUT0	8	50	0.027	
LPCB@22@	1	8	50	0.027	
LPCB ⊕ @23@		8	50	0.027	

Red

10

0.027

Note: for other symbols see page 7- 35.

- Add letter "L" if illuminated type is required.
 For the type of actuator, add: 1 for flush or 2 for extended.
- Add the actuator colour: 2 black only for non-illuminated type; 3 green, 4 red, 5 yellow, 6 blue, 8 white or 7 transparent for illuminated
- 4 Products available on specific request for a minimum multiple quantity
- of 50 pieces per type.

 Gonsult Technical support for assistance; see contact details or inside front cover.
- **6** 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 A 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.

Wt

[kal

Qty

per pkg

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.

Туре	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.

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 spring return button actuators

See page 7-37 and 7-38.

Type Terminat

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.

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

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



LPCB614...



LPCB674...



LPCB6344



LPCB6634





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

SPRING RETURN

Ø40mm/1.57" (without mounting adapter)

LPCB6142	Black	10	0.033
LPCB6143	Green	10	0.033
LPCB6144	Red	10	0.033
LPCB6145	Yellow	10	0.033
LPCB6146	Blue	10	0.033
G00 (0.00) ()			

Ø60mm/2.36" (without mounting adapter)

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 RELEASE.

Ø40mm/1.57" (without mounting adapter).

Tot Horria Stopping.			
LPCB6742	Black	10	0.097
For emergency stopping, ISO 13850 compliant.			
LPCB6744 Red 10 0.097			
LATCH, TURN TO RELEASE.			

Ø40mm/1.57" (without mounting adapter). For normal stopping.

LPCB6342	Black	10	0.046
LPCB6344	Red	10	0.046

Ø30mm/1.18" (without mounting adapter). For emergency stopping, ISO 13850 compliant.

LPCB6634	Red	10	0.079
Ø40mm/1.57" (witho For emergency stopp			

Red LATCH, TURN KEY TO RELEASE.

LPCB6644

Ø40mm/1.57" (without mounting adapter). Key code n° 455. For normal stopping.

10

0.079

LPCB6842	Black	10	0.083	
LPCB6842R€	Black	1	0.083	
For emergency stopping, ISO 13850 compliant.				

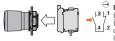
LPCB6844	Red	10	0.083
LPCB6844RO	Red	1	0.083

 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.

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

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

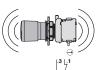
With contact type LPXC01SM (1NC)



Contact .3-.4 closes when the LPXAU120 mounting adapter and LPX...SM contact are fitted correctly on the mushroom-head latch actuator. Contact .1-.2 in series does not change state.

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.

If the contact LPXC01SM detaches from the actuato If the contact EFACUTSM detacles 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 reestablished resulting in **contact**. **3-.4 closing**.



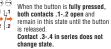




With contact type LPXC02SM (2NC)



Contact .3-.4 closes when the LPXAU120 mounting adapter and LPX...SM contact are fitted correctly on the mushroom-head latch actuator. Both contacts .1-.2 in series do not change state.









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.

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.

Туре	Termination

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

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

Certifications and compliance

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

page 7-36 to 42

PLatinum series Ø22mm chromed plastic

Pushbuttons and selector switches

Double-touch actuators, spring return





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

Two flush pushbuttons (without mounting adapter).

Both spring return.					
	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	I-0	5	0.030
	LPCB7124	White/Black	I-0	5	0.030
	LPCB7133	Green/Red	Start/Stop	5	0.030
	LPCB7191	Black/Black	↑	5	0.030

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

adaptor). Both opining rotarn.					
	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

Triple-touch actuators, spring return



LPCB73...

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

One middle extended buttons (without mounting adapter). Spring return.

LPCB7345		5	0.030
	ST0P		
	Ш		
LPCB7355	↑	5	0.030
	STOP 		
I DODZOCE	*		0.000
LPCB7365	→	5	0.030
	STOP		
	←		
LPCB7375	×	5	0.030
	STOP		
	K		

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+70°C
 Storage temperature: -40...+85°C

- Degree of protection:
 Per IEC/EN: IP66, IP67 and IP69K
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K.

Materials

Polyamide.

Mechanical endurance

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

Mounting adapter

See page 7-36.

Type: LPXAU120.

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

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-37 and 7-38.

Туре	Termination
Front-mount types snap onto LPX	AU120 mounting adapter

(to purchase separately).

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

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

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

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

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

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

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

Order code

PLatinum series Ø22mm chromed plastic



Selector switch actuators



Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 positions (withou	it mounting adapter).		
LPCS120		10	0.037
LPCS121	∇	10	0.037
3 positions (withou	it mounting adapter).		
LPCS130	\vee	10	0.037
LPCS131	4	10	0.037
LPCS132	\bigcirc	10	0.037
LPCS133	V	10	0.037

Selector switch actuators long lever



LPCS2...

Selector switch actuators key (Ronis)



		n°	[kg]
2 positions (withou	t mounting adapter).		
LPCS220	<u></u>	10	0.040
LPCS221	∇	10	0.040
3 positions (withou	t mounting adapter).		
LPCS230	\vee	10	0.040
LPCS231	<₽>	10	0.040
LPCS232	\checkmark	10	0.040
LPCS233	1	10	0.040
Order code	Type of	Qty per pkg	Wt

Type of

positions

	positions	per pkg		
		n°	[kg]	
2 positions (with	out mounting adapter).			
LPCS320	• ,	10	0.060	
LPCS320R€		1	0.060	
LPCS321	• •	10	0.060	
LPCS321R€		1	0.060	
LPCS340	•,-,	10	0.060	
LPCS340R€		1	0.060	
3 positions (with	out mounting adapter).			
LPCS330	•	10	0.060	
LPCS330R@		1	0.060	
LPCS331	• • •	10	0.060	
LPCS331R€		1	0.060	
LPCS332@	•	10	0.060	
LPCS332R ⊕ @		1	0.060	
LPCS333@	•	10	0.060	
LPCS333R ⊙ ❷		1	0.060	
LPCS350	4	10	0.060	
LPCS350R€		1	0.060	
LPCS360	1 •	10	0.060	
LPCS360R0	4,	1	0.060	
LPCS370@		10	0.060	
LPCS370R⊕@	Ψ.	1	0.060	
LPCS380@	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10	0.060	
LPCS380R⊕@	<u>√</u>	1	0.060	
LPCS390@	• 5	10	0.060	
LPCS390R ⊙ ❷	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	0.060	
Versions with different key 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: LPC S320 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.

Wt

per pkg

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.

Гуре	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

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

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.

Spring return position.

. Key extraction position.

Rotation angles

2 positions

3 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

Pushbuttons and selector switches

PLatinum series Ø22mm chromed plastic

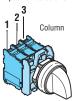
Selector switch actuators



Order code	positions	per pkg	VVT	
		n°	[kg]	
2 positions (withou	t mounting adapter).			
LPCS420	<u></u>	10	0.037	
LPCS421	∇	10	0.037	
3 positions (without mounting adapter).				
LPCS430	\vee	10	0.037	
LPCS431	\oplus	10	0.037	
LPCS432	\Box	10	0.037	
LPCS433	V	10	0.037	

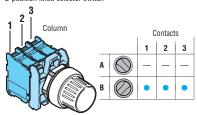
Contact activation

2-position selector switch



1 2 3 A 0 B 0 • • •		Contacts		
		1	2	3
B 🔘 • •	A	_	_	_
	В	•	•	•

2-position knob selector switch

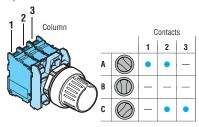


3-position selector switch



	, ,	Contacts		
	1	2	3	
A	•	•	_	
В	_	_	_	
С	_	•	•	

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.

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.

Type	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.

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

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.

Spring return position.

Rotation angles

2 positions

3 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.

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



LPCBI 614...



LPCBL664...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without m	ounting 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 (without mounting adapter). Spring 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	Coloui	per pkg	VVL
		n°	[kg]
Flush (without mounting adapter). Push on-push off.			
LPCQL103€	Green	10	0.025
LPCQL104€	Red	10	0.025
LPCQL105€	Yellow	10	0.025
LPCQL106€	Blue	10	0.025
LPCQL107€	Transparent	10	0.025
Extended (without mounting adapter). Push on-push off.			
LPCQL203€	Green	10	0.027

Order code Colour

LPCQL2040

LPCQL2050

actuators.

Otv Wt

10

10

0.027

0.027

LPCQL206€	Blue	10	0.027
LPCQL207€	Transparent	10	0.027
	its LPXC10A (EM) and LPXC0		ed on thes

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

SPRING RETURN.
740mm/1 6" (without mounting adapter)

Red

Yellow

94011111/1:0 (Without mounting adapter).			
LPCBL6143	Green	10	0.035
LPCBL6144	Red	10	0.035
LPCBL6145	Yellow	10	0.035
LPCBL6146	Blue	10	0.035
LPCBL6148	White	1	0.035

LATCH, TURN TO RELEASE.

Ø40mm/1.6" (without mounting adapter).

For normal stopping.

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

Operational characteristics

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

Materials

Polyamide.

Mechanical endurance

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

Mechanical life:

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

Mounting adapter

See page 7-36

Type: LPXAU120.

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

The mounting adapter directly snaps onto the actuator.

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

See page 7-37 and 7-38.

Тур	е		Termination	
_			 	1

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

For TYPES LPCBL1/BL2/BL61... up to 6 contacts can be fitted: 3 each on 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

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

1NO	LPXCB10	Screw	
	L DVCD01		
1NC	LPXCB01	Screw	

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

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 n° 14.

Double-touch actuators, spring return, white indicator



LPCBL71...



LPCBL72...

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

Both spring return.

LPCBL7112 Black/Red — 5 0.030 LPCBL7113 Green/Red — 5 0.030 LPCBL7114 White/Black — 1 0.030 LPCBL7122 Black/Red I-O 5 0.030 LPCBL7123 Green/Red I-O 5 0.030 LPCBL7124 White/Black I-O 5 0.030 LPCBL7133 Green/Red Start/Stop 5 0.030 LPCBL7191 Black/Black ↑ 5 0.030					
LPCBL7114 White/Black — 1 0.030 LPCBL7122 Black/Red I-O 5 0.030 LPCBL7123 Green/Red I-O 5 0.030 LPCBL7124 White/Black I-O 5 0.030 LPCBL7133 Green/Red Start/Stop 5 0.030	LPCBL7112	Black/Red	_	5	0.030
LPCBL7122 Black/Red I-O 5 0.030 LPCBL7123 Green/Red I-O 5 0.030 LPCBL7124 White/Black I-O 5 0.030 LPCBL7133 Green/Red Start/Stop 5 0.030	LPCBL7113	Green/Red	_	5	0.030
LPCBL7123 Green/Red I-O 5 0.030 LPCBL7124 White/Black I-O 5 0.030 LPCBL7133 Green/Red Start/Stop 5 0.030	LPCBL7114	White/Black		1	0.030
LPCBL7124 White/Black I-O 5 0.030 LPCBL7133 Green/Red Start/Stop 5 0.030	LPCBL7122	Black/Red	I-0	5	0.030
LPCBL7133 Green/Red Start/Stop 5 0.030	LPCBL7123	Green/Red	I-0	5	0.030
=:	LPCBL7124	White/Black	I-0	5	0.030
LPCBL7191 Black/Black 5 0.030	LPCBL7133	Green/Red	Start/Stop	5	0.030
	LPCBL7191	Black/Black	↑	5	0.030

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

adaptor). Both opining rotarn.				
LPCBL7212	Black/Red		1	0.030
LPCBL7213	Green/Red		5	0.030
LPCBL7214	White/Black		1	0.030
LPCBL7222	Black/Red	I-0	1	0.030
LPCBL7223	Green/Red	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...

Order code	Colour	Type of positions	Qty per pkg	Wt
			n°	[kg]
2 positions (wit	hout mounting a	dapter).		
LPCSL1203	Green		10	0.025

LPCSL1203	Green	10	0.025
LPCSL1204	Red	10	0.025
LPCSL1205	Yellow	10	0.025
LPCSL1206	Blue	10	0.025
LPCSL1208	White	10	0.025
LPCSL1213	Green	 10	0.025
LPCSL1214	Red	1	0.025
LPCSL1215	Yellow	1	0.025
LPCSL1216	Blue	1	0.025
LPCSL1218	White	10	0.025

3 positions (wit	hout mounting	adapter).
I DCCI 1202	Croon	

-				
LPCSL1303	Green		10	0.025
LPCSL1304	Red		10	0.025
LPCSL1305	Yellow		10	0.025
LPCSL1306	Blue		10	0.025
LPCSL1308	White		10	0.025
LPCSL1313	Green	.cn	10	0.025
LPCSL1314	Red		1	0.025
LPCSL1315	Yellow		1	0.025
LPCSL1316	Blue		1	0.025
LPCSL1318	White		10	0.025
LPCSL1323	Green	<u></u>	10	0.025
LPCSL1324	Red	`V	1	0.025
LPCSL1325	Yellow		1	0.025
LPCSL1326	Blue		1	0.025
LPCSL1328	White		10	0.025
LPCSL1333	Green	. 15	10	0.025
LPCSL1334	Red	1	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.

Type	Termination
Front-mount types snap onto LPX	AU120 mounting adapte

(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 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.

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

2 positions





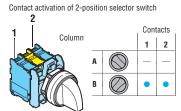
LED light elements

See pages 7-39 to 42.

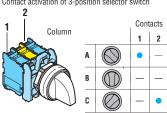
Certifications and compliance

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.





Contact activation of 3-position selector switch



PLatinum series Ø22mm chromed plastic



Pilot light heads



Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Without mou	nting 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.

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

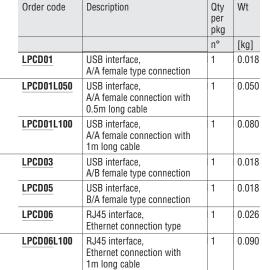
Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC, RINA. Compliant with standards: IEC/EN/BS 60947-1, IEC/EN/BS 60947-5-1, UL508, CSA C22.2 n° 14.

USB and RJ45 communication interfaces









General characteristics

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

Operational characteristics

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

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 n° 14.



INDEX

PLatinum series Ø22mm chromed plastic

LED integrated monoblock pilot lights steady light



	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		Yellow	10	0.021
	LPMLB6		Blue	10	0.021
	LPMLB7		Transparent	10	0.021
	LPMLD1	48VAC/DC	Orange	10	0.021
	LPMLD3		Green	10	0.021
•	LPMLD4		Red	10	0.021
	LPMLD5		Yellow	10	0.021
	LPMLD6		Blue	10	0.021
	LPMLD7		Transparent	10	0.021
	LPMLE1	110120VAC	Orange	10	0.024
•	LPMLE3		Green	10	0.024
•	LPMLE4		Red	10	0.024
•	LPMLE5		Yellow	10	0.024
•	LPMLE6		Blue	10	0.024
•	LPMLE7		Transparent	10	0.024
	LPMLM1	230VAC	Orange	10	0.024
•	LPMLM3		Green	10	0.024
•	LPMLM4		Red	10	0.024
•	LPMLM5		Yellow	10	0.024
	LPMLM6		Blue	10	0.024
	LPMLM7		Transparent	10	0.024
	LPMLP1	380415VAC	Orange	10	0.024
•	LPMLP3		Green	10	0.024
	LPMLP4		Red	10	0.024
•	LPMLP5		Yellow	10	0.024
•	LPMLP6		Blue	10	0.024
•	LPMLP7		Transparent	10	0.024
	LPMLF1	110125VDC	Orange	10	0.024
	LPMLF3		Green	10	0.024
٠	LPMLF4		Red	10	0.024
٠	LPMLF5		Yellow	10	0.024
	LPMLF6		Blue	10	0.024
	LPMLF7		Transparent	10	0.024
	LPMLN1	220VDC	Orange	10	0.024
	LPMLN3		Green	10	0.024
٠	LPMLN4		Red	10	0.024
	LPMLN5		Yellow	10	0.024
		1			J.JL7

Operational characteristics

- PETATURIA CRIARACTERISTICS

 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.

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.





PLatinum series Ø22mm chromed plastic



Monoblock potentiometers



LP	CF	A.	

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

Monoblock buzzers



LPCZS...



LPCZS...IP

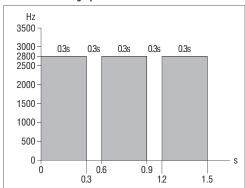
Order code	Voltage	Sound intensity at 2800Hz	Qty per pkg.	Wt
	[V]	[dB/10cm]	n°	[kg]
Continuous or nules tons IP40 version				

outside of pales tone, if to toroidin				
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

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



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

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

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)
- 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

Polvamide.

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.

Pushbutton actuators, spring return, with special symbols

PLatinum series



LPSB1253



LPFB1253



Order code	Symbol	Colour	Qty per pkg	Wt	
			n°	[kg]	
Spring return (without mounting adapter)					

Spring return	(without	mounting	adapter	١
---------------	----------	----------	---------	---

Spring return (with	iout inounting	auapter).		
LP@B@@25@	+	4	50	0.027
LP@B@@26@	_	4	50	0.027
LP@B@@27@	~	4	50	0.027
LP@B@@28@	-¦Ç-	4	50	0.027
LP@B@@29@	<u></u>	4	50	0.027
LP@B@@30@	ALTO	4	50	0.027
LP@B@@31@	BASSO	4	50	0.027
LP@B@@32@	sx -	4	50	0.027
LP@B@@33@	DX	4	50	0.027
LP@B@@34@	MAN	4	50	0.027
LP@B@@35@	AUT0	4	50	0.027
LP@B@@38@	TRIP	4	50	0.027
LP@B@@39@	TEST	4	50	0.027
LP@B@@40@	\triangle	4	50	0.027
LP@B@@41@	ů.	4	50	0.027
LP@B@@42@	\oplus	4	50	0.027
LP@B@@43@	@	4	50	0.027
LPOB@0440	1 2	4	50	0.027
LP@B@@45@	w	4	50	0.027
LP@B@@46@	•	4	50	0.027
LP 0 B 06 47 0	\Diamond	4	50	0.027
LP 0 B 06 48 0		4	50	0.027
LPOB@6490	†↓	4	50	0.027
LPOB@6520	\sim	4	50	0.027
LP 0 B 00 53 0	1	4	50	0.027
LPOB@6540	•	4	50	0.027
LP 0 B 00 55 0		4	50	0.027
LP 0 B 00 56 0	START STOP	4	50	0.027
LP 0 B 06 57 0	III	4	50	0.027
LP 0 B 00 58 0	IV	4	50	0.027
LPOB@6590	⇄	4	50	0.027
LP@B@60@	" Å _κ	4	50	0.027
LP@B@61@	€	4	50	0.027
LP 0 B 06 2 0	\sim	4	50	0.027
LP@B@63@		4	50	0.027
LP@B@64@	①	4	50	0.027
LP@B@65@	\bigcirc	4	50	0.027
LP@B@66@	P	4	50	0.027
LP@B@67@	↔	4	50	0.027
LP 0 B 06 8 0	<u> </u>	4	50	0.027
LP 0 B 06 9 0	*	4	50	0.027
Add letter "S" if Ø22r	nm metal tyne is			

- Add letter "S" if Ø22mm metal type is required; "F" if Ø30mm flat metal type is required; "O" 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.

 3 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
The mounting adapter directly sna	ans onto the actuator (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.

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 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

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 n° 14.

Pushbuttons and selector switches

PLatinum series



Mounting adapters





new

Mounting adapters with

contact elements

LPXAU120M

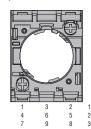


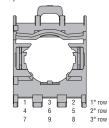
LPXAU120

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

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.

LPXE10M ⊙	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5	0.030
<u>LPXE01M</u> ⊖	.1 	5	0.030

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

LPXE100	NO ①	10	0.015
<u>LPXE01</u> ⊖	.1 → NC ②	10	0.015

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

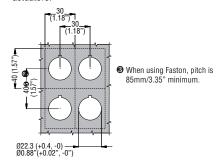
 ② Direct (positive) opening action → in accordance with IEC/EN/BS 60947-5-1.



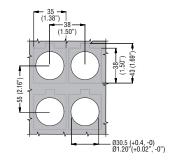
LPXE...M

Drillings

Minimum recommended distances for Ø22mm/0.87" actuators



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 =

- 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:

0,	120, 211 operational enalaction of the total operation.									
[V]	12	24	48	120	240	400	480	500	600	
[A]	6	6	6	6	6	3	1.5	1.4	1.2	
IEC/	IEC/EN operational characteristics in DC13 category:									
[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	

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

Contact resistance: $\leq 20 \text{m}\Omega$.

Terminals: Clamp screw with washer.

Stroke of contact elements



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

Mechanical and electrical endurance

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

Certifications and compliance

Contact elements with screw terminals

PLatinum series



Order code	Function	n	Qty per pkg	Wt
			n°	[kg]
Screw termination.	Without r	nounting adap	ter.	
LPXC100	.4	NOO	10	0.011
LPXC10A	\ \ \ \ \ \ \ \ \ \ \ \ \ \	EM @	10	0.011
LPXC01 →	;1 ⊖ .2	NC ®	10	0.011
LPXC01D⊕ →	.5 .6	LB 000	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.
- ⑤ Direct (positive) opening action → in accordance with IEC/EN/BS 60947-5-1.
 ⑥ Normally closed contact with late break operation.

Contact elements with spring-clamp terminals



LPXCS01	LPXCS10
1	1

Order code **Function** Qty Wt per nka n° [kg]

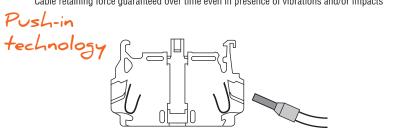
Spring-clamp termination. Without mounting adapter.

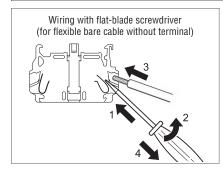
LPXCS100	\.4 NO ①	10	0.010
LPXCS01 ⊖	.1 	10	0.010

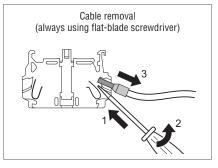
Not suitable for push-push actuators.

② Direct (positive) opening action → in accordance with IEC/EN/BS 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







Operational characteristics for screw termination

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

Operational characteristics for spring-clamp termination

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

General characteristics of contact elements

Wiping action and dual scraping-oscillating effect IEC rated insulation voltage: 690V IEC rated thermal current Ith: 10A

Conductivity: 1mA 5V

UL/CSA and IEC/EN/BS 60947-5-1 designation: A600 Q600.

IEC/EN operational characteristics in AC15 category:

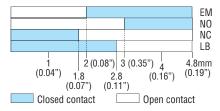
120, 211 operational enalactoriotics in 710 to category.										
[V]	12	24	48	120	240	400	480	500	600	
[A]	6	6	6	6	6	3	1.5	1.4	1.2	
IEC/EN operational characteristics in DC13 category:										
[V]	12	2	4	48	125	250	440	500	600	
[A]	3	3	}	1.5	0.55	0.27	0.15	0.13	0.1	

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

Clamp screw with washer.

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

Certifications and compliance

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

Order code



Contact elements with Faston terminals



0.40. 0040	T direction	pkg	
		n°	[kg]
Faston termination.	Without mounting adap	ter.	
LPXCF10 ⊙	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10	0.012
<u>LPXCF01</u> ⊖	l.1 description l.2 NC@	10	0.012

Qtv per | Wt

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

② Direct opening operation
in accordance with IEC/EN/BS 60947-5-1.

Function

Auto-monitoring contact elements with screw terminals





LPXC01SM

LPXC02SM

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

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

LPXC01SM →	.3 .1 1NC ⊕2	1	0.022
<u>LPXC02SM</u>	O	1	0.033

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

② Direct opening operation → in accordance with IEC/EN/BS 60947-5-1.

Contact elements, base mount on LPZP... control stations with screw terminals



LPXCB...

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

Screw termination.

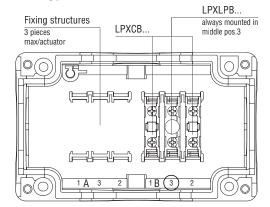
Direct snap-on mounting on LPZP... control station base.

LPXCB10 ⊙	\.4 NO•	10	0.012
<u>LPXCB01</u> ⊖	.1 .2 NC❷	10	0.012

Not suitable for push-push actuators.

② Direct opening operation → in accordance with IEC/EN/BS 60947-5-1.

Mounting position on the LPZ... control station base



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 $\underline{\text{LPXAU120M}}$ or $\underline{\text{LPXAU120 m}}\text{ounting adapters:}$
- 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:

[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 o	perati	onal	charac	teristi	cs in A	\C15 ca	ategory	:	
[V]	12	2	4	48	125	250	440	500	600	
[A]	3	3	}	1.5	0.55	0.27	0.15	0.13	0.1	

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

Terminals: Clamp screw with washer.

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

Stroke of contact elements



Mechanical and electrical endurance of contact elements Opening force: $\leq 0.5 \text{kg}/1.1 \text{lb}$

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 n° 14.

Test elements for steady light LED elements with screw terminals

PLatinum series



LPXT...

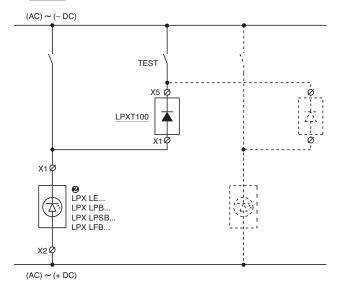
Order code	Description	Qty per pkg	Wt
		n°	[kg]

tarmination Without man

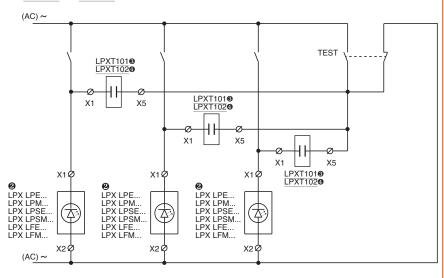
Screw termination. Without mounting adapter.					
LPX T100@@	Use with LED elements in AC/DC, types LPXLE (all), LPXLFB, LPXLPB and LPXLPSB	10	0.011		
LPX T101@	Use with LED elements at 85-140VAC for types LPXLFE LPXLPE and LPXLPSE	10	0.011		
LPX T102@	Use with LED elements at 185-265VAC for types LPXLFM, LPXLPM and LPXLPSM	10	0.011		

- Whenever test circuits include illuminated actuators connected with paralleled load, use two LPXT100 for each LED element. Refer to the wiring diagram below or online in the Downloads section at www.LovatoElectric.com
- With DC supply only for 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



For LPXT101 and LPXT102 test elements



- 3 Use with LPXLFE..., LPXLPE... or LPXLPSE... type.
- 4 Use with LPXLFM..., LPXLPM... or LPXLPSM... type

Operational characteristics

- Auxiliary supply voltage:
 LPXT100 test element:

 - 12...30VAC/DC for LPXLEB/LFB/LPB/LPSB... 85...140VAC/DC for LPXLEE... 185...265VAC/DC for LPXLEE...
- LPXT101 test element: 85...140VAC
- LPXT102 test element: 185...265VAC For use with LED elements LPXLPBB/LPBE/LPBM... types, consult Technical support; see contact details on
- inside front cover Electrical life: 100,000 hours
- Any mounting position allowed
- Snap onto mounting adapter beside the LED element or stacked behind contact elements; also internally on the LPZ... control station cover
- Maximum tightening torque: 1Nm/8.8lb.in
- Ambient conditions:
 - Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C
- Degree of protection: IP20.

Mounting adapter

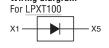
See page 7-36.

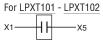
The mounting adapter directly snaps onto the actuator fixed to the mounting surface.

Maximum conductor cross section

1 or 2 2.5mm² or AWG 12 cables.

Wiring diargram





Certifications and compliance

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

Rated supply voltage	LED colour	Qty per pkg.	Wt
[V]		n°	[kg]
	voltage	voltage colour	voltage colour per pkg.

Steady light, screw termination,

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.

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



LPXLE...

Simple protection against overvoltages

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:
- 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:

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

Mounting adapter See page 7-36.

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

Maximum conductor cross section

1 or 2 2.5mm² or AWG12 cables.

Wiring diagram



Certifications and compliance

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



LED elements flashing light with screw terminals



LPXLF...

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]

Flashing light, screw termination

Without mounting ad				
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	Green	10	0.016
LPXLFE4	AC	Red	10	0.016
LPXLFE5		Yellow	10	0.016
LPXLFE6		Blue	10	0.016
LPXLFE8		White	10	0.016
LPXLFM3	185265V	Green	10	0.016
LPXLFM4	AC	Red	10	0.016
LPXLFM5		Yellow	10	0.016
LPXLFM6		Blue	10	0.016
LPXLFM8		White	10	0.016

Operational characteristics

- 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.

Pushbuttons and selector switches

PLatinum series



LED elements steady light with spring-clamp terminals



LPXLPS...

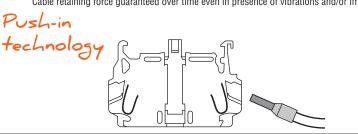
Total protection against overvoltages and stray currents in wiring, to reduce flickering phenomenon and withstand vibrations.

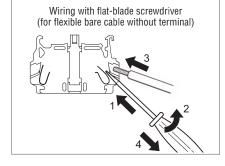
Order code	Rated supply voltage	LED colour	Qty per pkg	Wt
	[V]		n°	[kg]

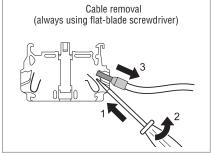
Steady light, with spring-clamp termination.

Without mounting adapter.						
1230VAC/DC	Green	10	0.015			
	Red	10	0.015			
	Yellow	10	0.015			
	Blue	10	0.015			
	White	10	0.015			
85140VAC	Green	10	0.015			
	Red	10	0.015			
	Yellow	10	0.015			
	Blue	10	0.015			
	White	10	0.015			
185265VAC	Green	10	0.015			
	Red	10	0.015			
	Yellow	10	0.015			
	Blue	10	0.015			
	White	10	0.015			
	1230VAC/DC 85140VAC	1230VAC/DC Green Red Yellow Blue White S5140VAC Green Red Yellow Blue White 185265VAC Green Red Yellow Blue White Silve Silve	1230VAC/DC Green 10 Red 10 Yellow 10 Blue 10 White 10 Red 10 Yellow 10 Blue 10 White 10 Blue 10 White 10 Red 10 Yellow 10 Red 10 Yellow 10 Red 10 Yellow 10 Blue 10 Tellow 10 Tel			

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







Operational characteristics

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

Mounting adapter

See page 7-36.

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

General characteristics

- Rated frequency: 50-60Hz
- Auxiliary supply voltage: 12...30VAC/DC; 85...140VAC; 185...265VAC
- Maximum consumption: 17mA-0.50W (12...30VAC/DC); 20mA-0.40W (85...140VAC); 18mA-0.55W (185...265VAC)
- Total protection:
 - Against overvoltages
 - Against overvoltages
 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 n° 14.



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

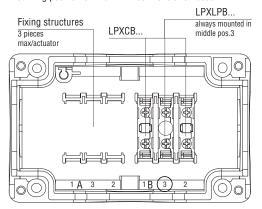
Order code	Rated supply voltage	LED color	Qty per pkg.	Wt
	[V]		n°	[kg]

Screw termination. Steady light.

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

Direct Shap on me	unting on Er Z	OUTILI OF SIG	LIOII DU	
LPXLPBB3	1230V	Green	10	0.016
LPXLPBB4	AC/DC	Red	10	0.016
LPXLPBB5		Yellow	10	0.016
LPXLPBB6		Blue	10	0.016
LPXLPBB8		White	10	0.016
LPXLPBE3	85140V	Green	10	0.016
LPXLPBE4	AC	Red	10	0.016
LPXLPBE5		Yellow	10	0.016
LPXLPBE6		Blue	10	0.016
LPXLPBE8		White	10	0.016
LPXLPBM3	185265V	Green	10	0.016
LPXLPBM4	AC	Red	10	0.016
LPXLPBM5		Yellow	10	0.016
LPXLPBM6		Blue	10	0.016
LPXLPBM8		White	10	0.016

Mounting position on the LPZ... control station base



Operational characteristics

- 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



Maximum conductor cross section

1 or 2 2.5mm² or AWG14 cables.

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



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

















LPXAU138 LPXAU158

LPXAU159







LPXAU201

Order code	Description	Qty pkg	Wt
		n°	[kg]
LPSXB00	Flush or extended spring return actuator with no cap	5	0.013
LPSXB3 ⊙	Shrouded spring return actuator with no cap	5	0.014
LPSXQ0 ⊙	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.	T		1.
LPXAU13®®	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 0 ®	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 I LPXAU100	abels. • 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
I DVALION4	Diank plactic label for	EO	0.000

General characteristics

LABEL DIMENSIONS

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

- For actuators caps and lenses see page 7-47.
 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:

 (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.
 Cannot be used when LPXAU167 is fitted.

50

0.002

Blank plastic label for

engraving for LPXAU102

Order code

LPFXB00

LPFXQ00

LPFXQL00

LPFXAU00

LPFXA130

LPFXAU100

LPFXAU100G

LPXAU203

LPFXAU105

LPFXAU105G

LPXAU109

LPXAU108

Label holders and labels. @

Description

Flush or extended spring

actuator with no cap

Plastic threaded ring for

actuator fixing

(black)

(grey)

Threaded plug for

return actuator with no cap

Flush or extended push-push

Illuminated flush or extended

push-push actuator with no cap

unused drilled holes (black)

Label holder for LPXAU109

Label holder for LPXAU109

Label holder for LPXAU108

Label holder for LPXAU108

Engravable silver plastic label

to use with LPXAU105 holder

and LPXAU203 labels

and LPXAU203 labels

Blank label for writing

plastic labels (black)

plastic labels (grey) Engravable silver plastic label to use with LPXAU100 holder

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

PLatinum series







LPXAU00



LPFXAU100



LPFXAU105





General characteristics

Qty

pkg

n°

5

5

Wt

[kg]

0.013

0.013

0.013

0.002

0.007

0.004

0.004

0.001

0.005

0.005

0.002

0.002

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.

For	labels	with	text	see	page	7-48.	

Pushbuttons and selector switches

PLatinum series



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



1















LPXAU159











LPXAU171

C	Order code	Description	Qty pkg	Wt
			n°	[kg]
Ī	PXB00	Flush or extended spring return actuator with no cap	10	0.013
L	PXB30	Shrouded spring return actuator with no cap	10	0.014
L	PXQ00	Flush or extended push-push actuator with no cap	10	0.013
L	PXQL0 ⊙	Illuminated flush or extended push-push actuator with no lens	10	0.013
L	PXA161	Adapter for Ø30mm/1.18" holes to Ø22mm/0.87" for mushroom operators	5	0.018
L	PXA162	Adapter for Ø30mm/1.18" holes to Ø22mm/0.87" for push- buttons and selector switches	5	0.018
L	PXA200	Socket spanner/wrench for fixing ring fitting	1	0.003
L	PXA127	Transparent diffuser for double-touch buttons	10	0.001
L	.PXAU00	Plastic threaded ring for actuator fixing	20	0.002
_	.PXAU01	Metallic threaded ring for actuator fixing	20	0.015
_	.PXA130	Threaded plug for unused drilled holes (grey)	10	0.007
L	.PXA130B	Threaded plug for unused drilled holes (black)	10	0.007
	<u>PXDIN</u>	Adapter for mounting buttons on DIN rail 35mm/ 1.38" wide (2 modules)	10	0.008
_	PXA150	Rod for mechanical reset button (I=150mm/5.90")	10	0.006
P	rotections.		,	
L	PXAU13 ⊕	Rubber boot for flush buttons	10	0.006
L	PXAU1400	Rubber boot for extended buttons	10	0.009
_	PXAU157	Rubber boot for double and triple-touch buttons (transpar.)	10	0.007
_	PXAU167⊕⊕	Rubber boot for mushroom head buttons, LPCB63/B66/ B67/BL66 (transparent)	10	0.012
_	PXAU158@6	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
L	PXAU159@@	Shroud for buttons LPCB63/66/67/68/BL666	10	0.010
L	PXA185	Yellow shroud for selectors	10	0.004
L	PXAU170	Protection cover for Ø22mm/ 0.87" plastic buttons	5	0.015
	PXAU171	Protection cover for Ø22mm/ 0.87"communication interfaces	5	0.018
L	abel holders and	d labels. 🛮		

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 <u>LPXAU108</u> 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	50	0.002

engraving for LPXAU102

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).
- 4 Cannot be used when LPXAU100, LPXAU105 or LPXAU102 is fitted.
- 6 Cannot be used when LPXAU158 is fitted.
- 6 Cannot be used when LPXAU167 is fitted
- 7 For labels with text see page 7-48.

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

PLatinum series





LPXA170...



LPXB104



LPXBL105



LPXB203



Order code	Description	Qty per pkg	Wt	
		n°	[kg]	
LPXA140	Action plug for centre contact	50	0.001	
LPXA170	Spare standard key set for selector switches or mushroom-head buttons, key code n° 455	10	0.008	
LPX A170RO	Spare key set for selector switches or mushroom head buttons	1	0.008	
Flush cap for spr	ing return and push-push actu	iators.		
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	actuators.		
LPXB202	Black	10	0.003	
LPXB203	Green	10	0.003	
LPXB204	Red	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 illuminated spring return and push-push				

I DVDI 402	0	_				10
actuators.						
Flush lens for	illuminated	spring	return	and	pust	1-pus

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 illuminated spring return and push-push actuators.

LPXBL203	Green	10	0.003
LPXBL204	Red	10	0.003
LPXBL205	Yellow	10	0.003
LPXBL206	Blue	10	0.003
LPXBL207	Transparent	10	0.003

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



Pushbuttons and selector switches

PLatinum series



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

START

LPXAGB220

STOP

LPXAGB221

AUTO - MAN

LPXAGB212

STOP-START

LPXAGB211

1-11

LPXAGB204

Order code	Text	Qty per pkg	Wt
		n°	[kg]
International labels	for pushbuttons and select	or switche	S.
LPXAGB200	0	50	0.001
LPXAGB201	1	50	0.001
LPXAGB202	II	50	0.001
LPXAGB203	0-1	50	0.001
LPXAGB204	1-11	50	0.001
LPXAGB205	I-O-II	50	0.001
Labels for selector	switches.		
LPXAGB210	OFF-ON	50	0.001
LPXAGB211	STOP-START	50	0.001
LPXAE211	PAR-MAR	50	0.001
LPXAGB212	AUTO-MAN	50	0.001
LPXAGB213	MAN-AUTO	50	0.001
LPXAGB214	AUTO-O-MAN	50	0.001
LPXAGB215	MAN-O-AUTO	50	0.001
LPXAGB216	FWD-0-REV	50	0.001
LPXAI216	AVO-IND.	50	0.001
Labels for general	use.		
LPXAGB220	START	50	0.001
LPXAI220	MARCIA	50	0.001
LPXAE220	MARCHA	50	0.001
LPXAGB221	STOP	50	0.001
LPXAI221	ARRESTO	50	0.001
LPXAE221	PARADA	50	0.001
LPXAGB222	RESET	50	0.001
LPXAE222	REARME	50	0.001
LPXAGB223	EMERGENCY	50	0.001
LPXAI223	EMERGENZA	50	0.001
LPXAE223	EMERGENCIA	50	0.001
LPXAGB224	ON	50	0.001
LPXAI224	IN SERVIZIO	50	0.001
LPXAE224	EN SERVICIO	50	0.001
LPXAGB225	POWER ON	50	0.001
LPXAI225	PRESENZA TENSIONE	50	0.001
LPXAGB226	OFF	50	0.001
LPXAGB227	FORWARD	50	0.001
LPXAI227	AVANTI	50	0.001
LPXAGB228	REVERSE	50	0.001
LPXAI228	INDIETRO	50	0.001
LPXAGB229	OPEN	50	0.001
LPXAI229	APERTURA	50	0.001
LPXAGB230	CLOSE	50	0.001
LPXAI230	CHIUSURA	50	0.001
LPXAGB231	RAISE	50	0.001
LPXAI231	SALITA	50	0.001
LPXAE231	SUBIDA	50	0.001
LPXAGB232	LOWER	50	0.001
LPXAI232	DISCESA	50	0.001
LPXAE232	BAJADA	50	0.001
LPXAI233	INTERVENTO TERMICO	50	0.001
LPXAGB234	FAULT	50	0.001
LPXAI235	DISINSERITO	50	0.001
LPXAGB236	LOCK	50	0.001
LPXAGB237	LEFT	50	0.001

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

50

0.001

LPXAGB238

MAN-AUTO

new



Plastic disk for Ø22mm mushroom head pushbuttons

PLatinum series



		pkg	
		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	10	0.001

EMERGENCY STOP (34.5x65mm/1.36x2.56") for LP...B63/663/664/

67/68/BL66... buttons

ARRET D'URGENCE /

NOT-AUS/ PARO EMERGENCIA Ø60mm/2.4"

Text

Text

Order code

LPXAU118

Order code

General characteristics

Qty per Wt

0.003

Qty Wt

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



LPXAU124



EMERGENO
7
Sec. Sec.
STOP
Charles
LPXAU110

Ø60mm illuminated plastic disk for Ø22mm mushroom head pushbuttons



LPXDAU1140...

Order dode	TOXE	per pkg	VVI
		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	1	0.100

according to ISO 13850

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

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

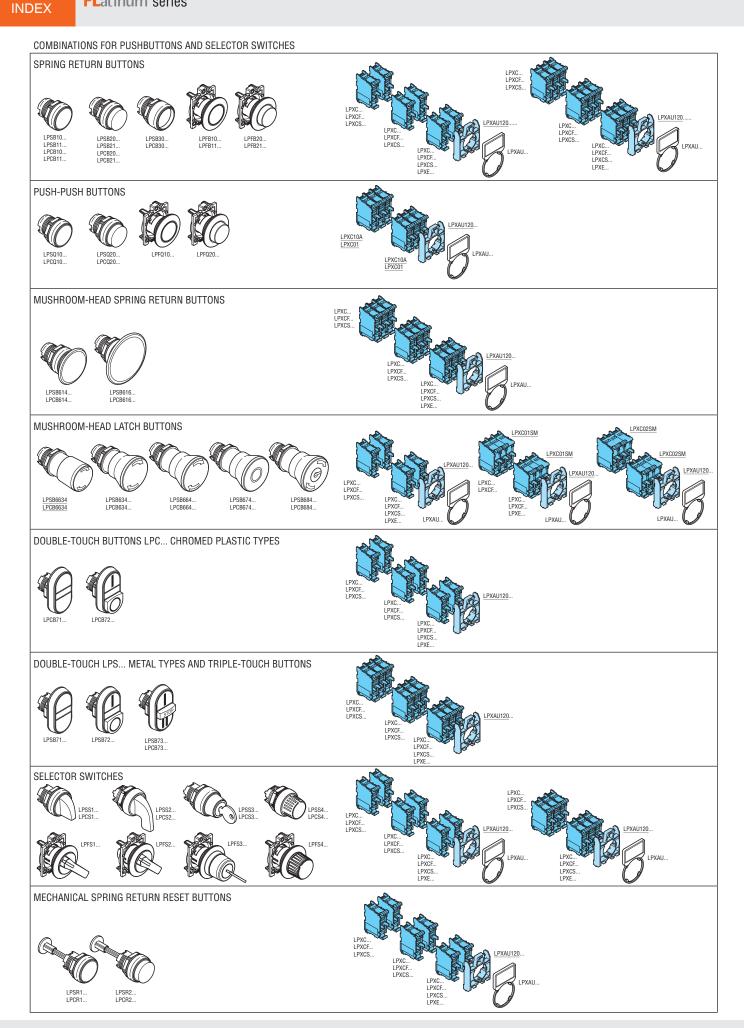
Certifications: cULus

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

Pushbuttons and selector switches







PLatinum series

COMBINATIONS FOR ILLUMINATED PUSHBUTTONS AND SELECTOR SWITCHES

Pushbuttons and selector switches

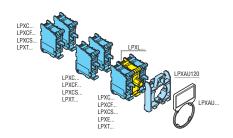
SPRING RETURN BUTTONS











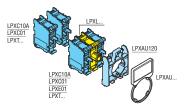
PUSH-PUSH BUTTONS





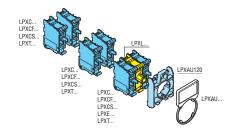






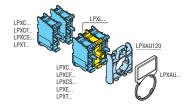
MUSHROOM-HEAD SPRING RETURN BUTTON





MUSHROOM-HEAD LATCH BUTTON

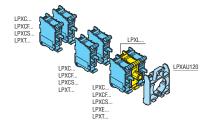




DOUBLE-TOUCH BUTTONS







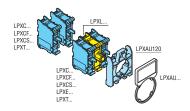
2 AND 3 POSITION SELECTOR SWITCHES











LPSSL12... LPCSL12...

LPSSL13...

Pushbuttons and selector switches

PLatinum series plastic control stations

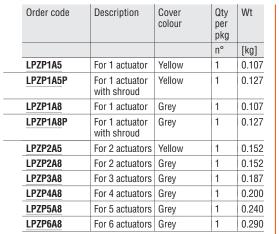


Without actuators





new



LPZP1A5P

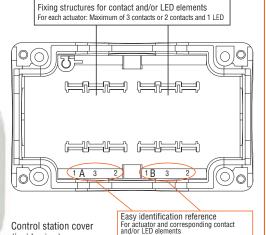




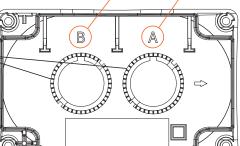
LPZP2A5 LPZP3A8

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

Control station base







Accessories









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

General characteristics

CONTROL STATIONS WITHOUT ACTUATOR

- 1 to 6 holes
- Compact dimensions
- Easy wiring for base-mount contact and LED elements: possible use of screw and spring-clamp terminal contact or LED elements on the inside surface of the cover using mounting adapter
- Numerous cable entries.

Operational characteristics

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

Materials

Polycarbonate.

Certifications and compliance

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

Plastic complete control stations PLatinum series

Order code Description









LPZP1B8101 LPZP1B8100





LPZP1B8102 LPZP1B8103





LPZP1B8104 LPZP1B8105

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

new





LP7P1B8300 LPZP1B8301





LPZP1B8302 LPZP1B8303

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 "0-1"	1NO	1	0.179
LPZP1B8302	Selector switch key, 2 position with label "0-1"	1NO+ 1NC	1	0.189
LPZP1B8303	Selector switch lever, 3 position with label "I-0-II"	2NO	1	0.160

General characteristics

- Compact dimensions Easy wiring

Contacts Qty Wt

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

Operational characteristics

- Cable entry knockouts:

 M16/PG11 (1 at rear and 1 on left side)

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

Polycarbonate.

Certifications and compliance

Pushbuttons and selector switches

Plastic complete control stations **PL**atinum series



With 1 actuator









LPZP1B5600 LPZP1B5601







LPZP1B5604





LPZP1B5606 LPZP1B5607

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	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

¹ Not included in cULus homologation.

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.

Polycarbonate.

Certifications and compliance

Plastic complete control stations PLatinum series







LPZP1B5609 LPZP1B5608





LPZP1B5610

LPZP1B5612



LPZP1B5P603





LPZP1B5611

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

• Not included in cULus homologation.

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.

Polycarbonate.

Certifications and compliance

Pushbuttons and selector switches

Plastic complete control stations **PL**atinum series



With 2 actuators







LPZP2B8900

LPZP2B8901





LPZP2B8902

LPZP2B8903





Contacts Qty Description Wt Order code config. per

Grey contr	ol stat	ion
------------	---------	-----

			pkg	
			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	1NO+ 1NC	1	0.272

key to release for emergency stopping ISO 13850 Red steady pilot light

12...30VAC/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 rorque c.
 Ambient conditions:
 ***rea tempera 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

Plastic complete control stations PLatinum series

With 3 actuators







LPZP3B8901





LPZP3B8902

LPZP3B8903





LPZP3B8904

LPZP3B8905





LPZP3B8907

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

General characteristics

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

7 Pushbuttons and selector switches

Plastic complete control stations **PL**atinum series



With 3 actuators







LPZP3B8909





LPZP3B8910

LPZP3B8911





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	1NO	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	1NO	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 of cover screws Tmax: 1.8Nm/16lb.in
- Tightening rorque 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

Palm switches

Type LP9...



LP9S...R





LP9S...B



LP9P...R

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

Momentary mushroom







Emergency mushroom pull-to-release





Accessories



Description	Qty per pkg	Wt
	n°	[kg]
1NO contact	1	0.010
1NC contact	1	0.010
	1NO contact	per pkg n° 1NO contact 1

1 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 emergency stop for escalators, gate openers, pedestrian crossing buttons for disabled users, etc... The ergonomic design and large surface for an easy actuation with the hand, elbow or foot, ensures immediate actuation of machinery and equipment even if the operator has his hands full.

This new range is split into two versions:

- Momentary mushroom (available in grey/black or grey/red);
- Emergency mushroom "pull-to-release" (available in yellow/red only).

Operational characteristics

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

CONTACT ELEMENTS

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

Minimum operational characteristics in AC15:

[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: ≤2.6N
- Mechanical life: 1,000,000 cycles.

Stroke of contact elements



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.

Pushbuttons and selector switches

Metal control stations and enclosures LPZM



Enclosures with cut-outs for Ø22mm units





LPZM1A5P







Qty Wt Order code Description Cover colour per pkg n° [kg] With holes. LPZM1A5 Yellow 0.343 For 1 actuator 1 LPZM1A5P@ For 1 actuator Yellow 1 0.382 with shroud LPZM1A8 0.349 For 1 actuator Grey LPZM2A5 0.456 For 2 actuators Yellow LPZM2A8 0.458 For 2 actuators Grey LPZM3A8 0.603 For 3 actuators Grey 0.581 LPZM4A8 For 4 actuators Grey LPZM5A8 For 5 actuators 0.680 LPZM6A8 For 6 actuators 0.671 With multiholes.

LPZM4CA8	For 4 actuators	Grey	1	0.570
LPZM6CA8	For 6 actuators	Grey	1	0.660
LPZM8CA8	For 8 actuators	Grey	1	1.060
LPZM12CA8	For 12 actuators	Grey	1	1.360
LPZM16CA8	For 16 actuators	Grey	1	1.650

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









LPZM4A8 LPZM3A8

LPZM6A8





LPZM4CA8

LPZM6CA8





LPZM8CA8

LPZM12CA8



LPZM16CA8

General characteristics

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

Possible use of contact elements on the inside surface of the cover using the relevant mounting adapter.

The thickness of the enclosure is suitable for drilling.

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

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

Operational characteristics

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

Certifications and compliance

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

Not available for multiholes LPZM...C type.

Order codes	Dimensions (X, Y, Z) [mm (in)]	n° of rows vertical	n° of rows 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

Enclosures



LPZM1E5 LPZM1E8



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





LPZM7E8

General characteristics

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

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

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

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

Operational characteristics

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

Certifications and compliance

Certifications obtained: cULus.

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

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

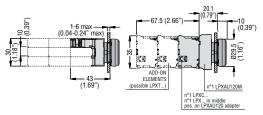
Pushbuttons and selector switches

PLatinum series dimensions [mm (in)]

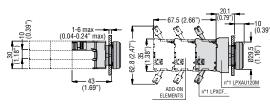


LPXAU120M WITH CONTACT ELEMENTS

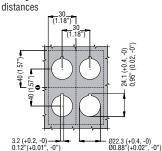
Flush pushbutton with screw terminal contact or LED or test elements



Flush pushbutton with Faston contact elements



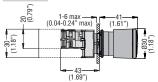
Drillings - Minimum recommended

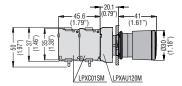


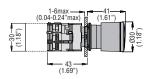
1 When Faston contacts are used, the vertical pitch must be 85mm minimum

Mushroom-head pushbutton with auto-monitor contacts

LPXC01SM

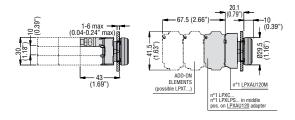






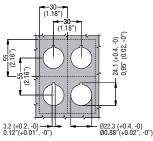
LPXC02SM

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



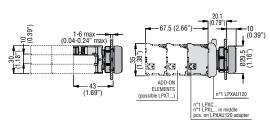
Drillings - Minimum recommended distances with spring-clamp terminal contact or LED elements

LPXC02SM

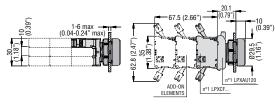


LPXAU120 WITH CONTACT ELEMENTS

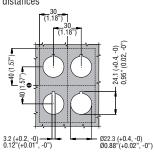
Flush pushbutton with screw terminal contact or LED or test



Flush pushbutton with Faston contact elements



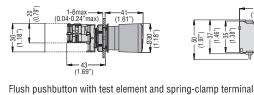
Drillings - Minimum recommended distances



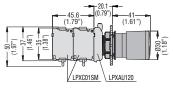
1 When Faston contacts are used, the vertical pitch must be 85mm minimum.

Mushroom-head pushbutton with auto-monitor contacts

LPXC01SM



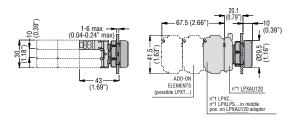
contact or LED elements LPXCS... - LPXLPS...

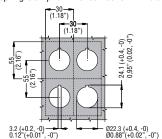


LPXC02SM (1.61")

LPXC02SM \ LPXAU120

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

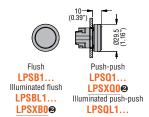




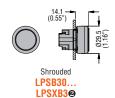
PLatinum series dimensions [mm (in)]

LPS TYPES

Spring-return and push-push buttons

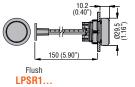


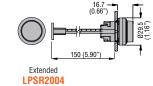


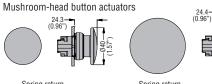


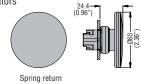
2 Complete with cap or lens.







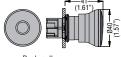




Spring return LPSB614... Illuminated spring return LPSBL614...

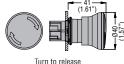
LPSB616...

Mushroom-head latch button actuators

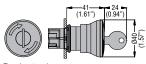


Push-pull LPSB674...

Turn to release LPSB6634



LPSB6644 Illuminated turn to release LPSBL664.

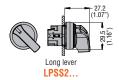


Turn key to release LPSB684...

Selector switch actuators









Flush double-touch buttons with or without light indicator

LPSSL1...



LPSB71... LPSBL71...

Double-touch buttons with an extended button with or without light indicator



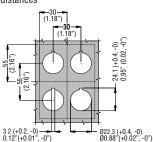
LPSB72... -LPSBL72...

Triple-touch button with middle extended button



LPSB73...

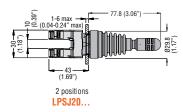
Drillings - Minimum recommended distances

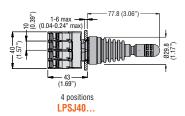


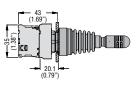
Pilot light head



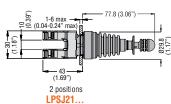
Joystick with free actuation lever

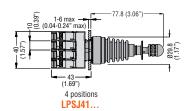


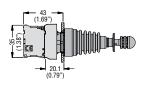




Joystick with mechanical latch lever







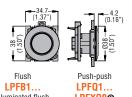
LPF TYPES

Pushbuttons and selector switches

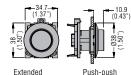
PLatinum series dimensions [mm (in)]

INDEX

Spring-return and push-push buttons



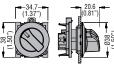
Illuminated flush LPFX00@ LPFBL1.. Illuminated push-push LPFQL1... LPFXB0@



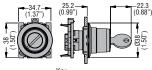
LPFB2.. LPF02. Illuminated extended Illuminated push-push LPFBL2... LPFQL2. LPFXQL0@

2 Complete with cap or lens.

Selector switch actuators

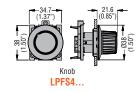


Lever LPFS1... Illuminated lever LPFSL1.



Key LPFS3...

Long lever LPFS2...



Communication interfaces LPSD...



LPFD01

-33.2 - 7.5 (1.31") (0.29")

LPFD03 - LPFD05

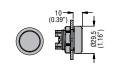
---7.5 (0.29")

Drillings - Minimum recommended distances — აგ — (1.50")

Pilot light head

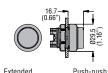
LPC TYPES

Spring-return and push-push buttons



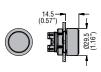
Flush LPCB1 Illuminated flush LPCBL1... LPXB0@





LPCB2... Illuminated extended Illuminated push-push LPCBL2...





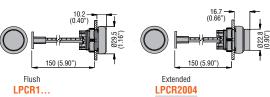
-55 (2.16")

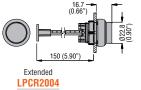
Shrouded LPCB30.. LPXB3@

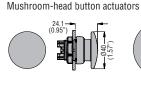
2 Complete with cap or lens.

Ø30.5 (+0.4, -0) Ø1.20"(+0.02", -0")

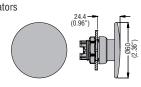
Mechanical buttons





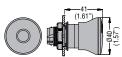




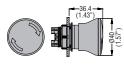


Spring return LPCB616...

Mushroom-head latch button actuators



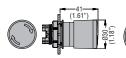




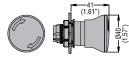
Turn to release

LPCB634...

Turn key to release LPCB684...



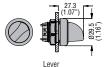
Turn to release LPCB6634



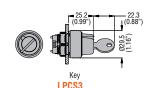
Turn to release LPCB6644 Illuminated turn to release LPCBL664...

Push-pull LPCB674... PLatinum series dimensions [mm (in)]





LPCS1 Illuminated lever LPCSL1...



LPCS2..



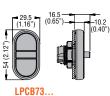
Flush double-touch buttons with or without light indicator



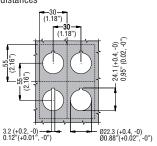
Double-touch buttons with an extended button with or without light indicator



Triple-touch button with middle extended button



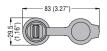
Drillings - Minimum recommended distances

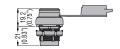


Pilot light head

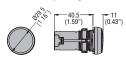


Communication interfaces LPCD...

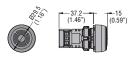




LED-integrated monoblock pilot lights







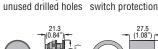
Monoblock potentiometer



LPCZS...

Label holder

PLATINUM ACCESSORIES

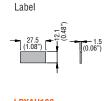


Threaded plug for

LM2TAU185

Knob selector





LPXAU109 LM2TA...2...

Label holder Label

LPXAU105

LPXAU108

Plastic disk for mushroom-head pushbuttons



LPXAU113

LPXAU114 LPXAU115 LPXAU118

Cable gland

Rubber boot for flush buttons



LPXAU13...

Rubber boot for extended buttons

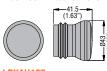


LPXAU14...

Double/triple button boot

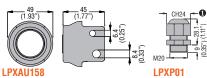
LPXAU157

Rubber boot for mushroom-head buttons



LPXAU167

Padlockable protection for mushroom-head latch buttons

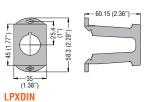


Shroud for mushroom-head latch buttons



46.8 (1.84")-

DIN rail adapter



Protection covers



LPXAU170



LPXAU171

-14.8 (0.58")

Illuminated disk for mushroom-

LPXDAU11...

LPXAU159

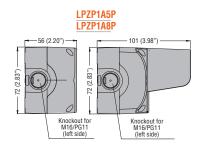
Pushbuttons and selector switches

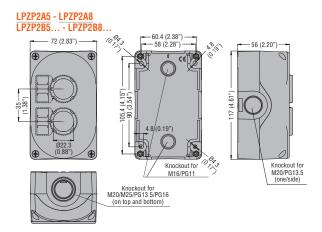
PLatinum series dimensions [mm (in)]



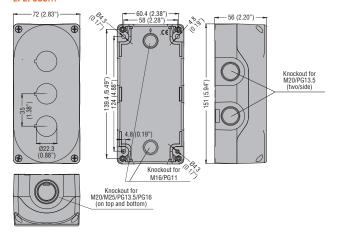


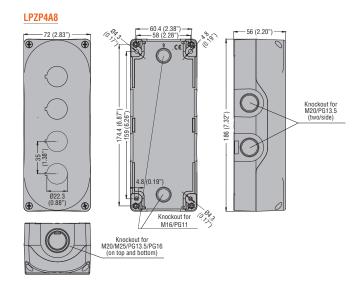
Knockout for M20/M25/PG13.5/PG16 (on top and bottom)

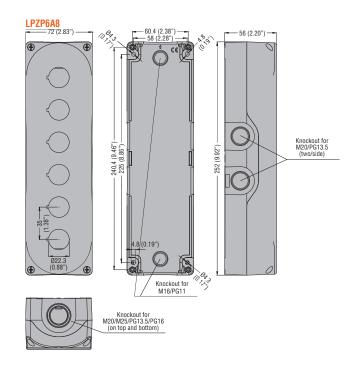




LPZP3A8 LPZP3B8...

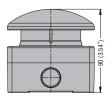


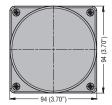




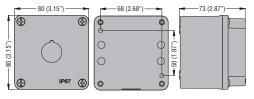
PALM SWITCHES

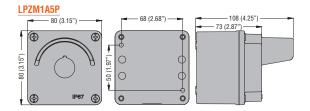
LP9...



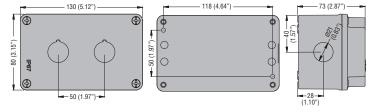


METAL CONTROL STATIONS

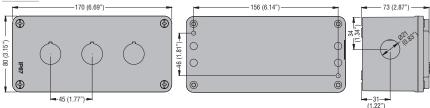




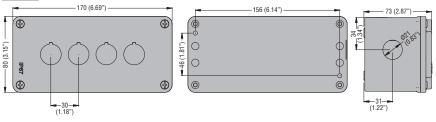
LPZM2A...



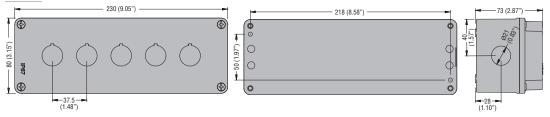
LPZM3A8



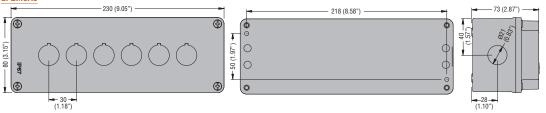
LPZM4A8



LPZM5A8







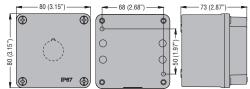
7 Pushbuttons and selector switches

PLatinum series dimensions [mm (in)]



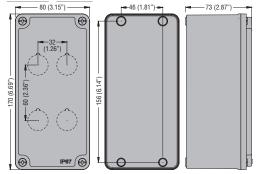


INDEX

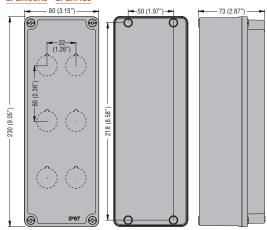


80 (3.15") -

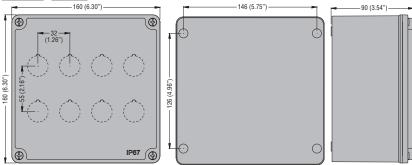
LPZM4CA8 - LPZM3E8



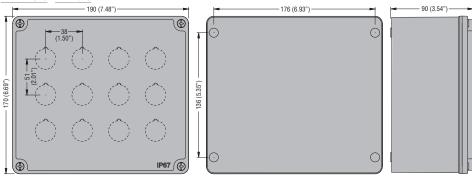
LPZM6CA8 - LPZM4E8



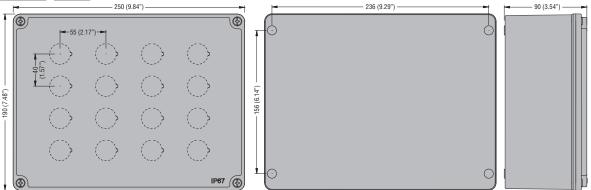
LPZM8CA8 - LPZM5E8



LPZM12CA8 - LPZM6E8



LPZM16CA8 - LPZM7E8



Wiring diagrams

