7 Control and signalling Pushbuttons and selector switches



- 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.

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• Mushroom-head

· Mechanical reset

• Illuminated.

Page 7-4 to 7 and 11 7-28 to 30 and 33 **BUTTON ACTUATORS Ø22mm**

DOUBLE AND TRIPLE TOUCH ACTUATORS Ø22mm

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



Page 7-9 and 12 7-32 and 35

SELECTOR SWITCHES Ø22mm

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

Page 7-13 to 15

· Spring return flush, extended and shrouded

· Push-push flush and extended

PILOT LIGHTS Ø22mm

· Monoblock LED.

MONOBLOCK BUZZERS Ø22mm

• Continuous or pulse tone.

COMMUNICATION INTERFACES Ø22mm

- USBRJ45.



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ADD-ON ELEMENTS, **ACCESSORIES AND SPARE PARTS FOR PUSHBUTTONS AND SELECTOR SWITCHES**

- · Mounting adapter
- · Contact elements
- LED integrated elements
- Lamp holders
- Labelling and label holders
- Bulbs.



Page 7-25

CONTROL STATIONS

- 1 to 6 holes option without actuators
- Complete units with 1 button.



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POTENTIOMETERS Ø22mm

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



Page 7-37

METAL JOYSTICKS Ø22mm

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



METAL CONTROL STATIONS

- Without actuators (from 1 to 16 holes)
- · Version without holes.





QUALITY TOUCH!



LOW ACTUATOR PROFILE

The external actuator bezel has a low profile and reduced front thickness.



CUSTOMISING CAPABILITY

To simplify stock management, the series includes actuators without cap or lens and separate caps and lenses for quick installation or replacement on spring return and push-push types; all these are sold as accessories.

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 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 minimum 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
- USAGE AT EXTREME TEMPERATURE CONDITIONS

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

cULus, EAC, RINA and CCC CERTIFICATIONS.

QUICK AND EASY ACTUATOR INSTALLATION



Actuator fixing on the mounting surface, through a Ø22mm/0.87 drilled hole, is obtained using its threaded ring, easily rotated by hand or by socket spanner/wrench.



- There is an anti-rotation fastener, duly sized to avoid actuator rotation on the mounting surface and to give an orientation reference point for users during panel installation and during contact fitting on the actuator.
- This anti-rotation fastener collapses inside the gasket to allow fitting also when drilled holes are round without reference index.
- The sealing gasket for the actuator mounting surface has a gripping action (suction effect) offering additional adhesion properties.

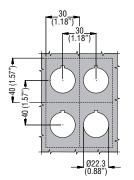


The mounting adapter and the actuators each have clearly visible reference indications making the snap-on fitting between the two easy and intuitive.



- Electrical contact and LED elements are snapped onto the mounting adapter.
- The activation of the middle contacts is standard supplied on all non-illuminated spring return and push-push button or selector switch actuators

REDUCED DIMENSIONS AND INTERAXIS



- Minimum pitch:
 30x40mm/1.18x1.57" between drillings for two actuators on a mounting surface
- 30x55mm/1.18x2.16" between drillings for two double and triple-touch actuators or when spring clamp contacts are used.



Total depth, from the external mounting surface to the end of the first contact element is just 43mm/1 69"

CONTACT ELEMENTS



- Miniaturised size
- High electric conductivity 5V 1mA
- Up to 9 contact elements can be installed
- Available versions: Front and base mount with screw terminals while front-mount only with faston and spring-clamp terminals
- Contact operation: double breaking action, direct (positive) action operation and wiping effect.

HIGH-LUMINOSITY LED ELEMENTS



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

DOUBLE AND TRIPLE TOUCH



- IEC IP66, IP67, IP69K and UL Type 4X degree of protection
- Double touch button actuators, with 2 flush or 1 flush and 1 extended
- 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 mounted

ADAPTER FOR DIN RAIL MOUNTING



Permits the fitting of the Platinum and 8 LM2T series buttons on DIN rail, in panels and modular boxes. Only 35mm/1.38" wide (2 modules).

EMERGENCY STOP ACTUATORS



- Actuator structure suitable to warrant direct opening operation with mechanical latching for emergency stopping per ISO 13850 and IEC/EN
- 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



- There is a green line around the actuator body to spot when the emergency stop is at rest or
- Use of Ronis keys
- Various accessories available (e.g. yellow E-stop disks, padlockable protection and rubber actuator boots).

SHROUD



Suitable for all Platinum and 8 LM2T mushroom-head latch buttons, guarantees protection against accidental on-board machinery contact.

SELECTOR SWITCH ACTUATORS



Lever design assures excellent grip



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



Use of Ronis keys



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

MONOBLOCK POTENTIOMETERS



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

METAL CONTROL STATIONS



- IP66 and IP67 protection degree.
- From 1 to 16 holes version.
- 1 hole version with actuator protection.
- Version without holes.

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.

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).

PLASTIC CONTROL STATIONS



- IP66, IP67, IP69K and UL Type 4X
- protection degrees.
 Empty pushbutton stations with 1 to 6 way option and complete control stations with various mushroomhead stop buttons
- Quick installation and wiring ease with the relative base-mount contact and LED elements, snap in place on the base
- Installation of screw and springclamp terminal contact and LED elements also on the internal cover surface.



Pushbutton actuators, spring return







Push-push button actuators



LPC Q10...



Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without	mounting adapter).	Spring return.	
LPC B102	Black	10	0.025
LPC B103	Green	10	0.025
LPC B104	Red	10	0.025
LPC B105	Yellow	10	0.025
LPC B106	Blue	10	0.025
LPC B108	White	10	0.025
Extended (with	out mounting adapte	er). Spring retur	n.
LPC B202	Black	10	0.027
LPC B203	Green	10	0.027
LPC B204	Red	10	0.027
LPC B205	Yellow	1	0.027
LPC B206	Blue	1	0.027
LPC B208	White	1	0.027
Shrouded (with	nout mounting adapt	er). Spring retur	n.
LPC B302	Black	10	0.027
LPC B303	Green	10	0.027
LPC B304	Red	10	0.027
LPC B305	Yellow	1	0.027
LPC B306	Blue	1	0.027
LPC B308	White	1	0.027

		n°	[kg]
Flush (without mounting adapter). Push on-push off.			
LPC Q1020	Black	10	0.025
LPC Q1030	Green	10	0.025
LPC Q1040	Red	10	0.025
LPC Q105€	Yellow	1	0.025
LPC Q1060	Blue	1	0.025
LPC Q1080	White	1	0.025
Extended (without mounting adapter). Push on-push off.			

Qty

per pkg

Wt

Colour

Order code

LPC Q202 ⊙	Black	10	0.027
LPC Q203 ⊙	Green	10	0.027
LPC Q2040	Red	10	0.027
LPC Q205 ⊙	Yellow	1	0.027
LPC Q206 ⊙	Blue	1	0.027
LPC Q208 ⊕	White	1	0.027

Use contact elements LPX C10A (EM) and LPXC01 (NC) only. Contact elements LPX C10 (NO) and LPX C01D (LB) cannot be fitted on

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/CSA: 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 7-20. Type: LPX AU120.

Actuators are installed through a $\emptyset 22mm/\emptyset 0.87"$ drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) 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 7-20, 7-23 or 7-24.

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.

They can also be fitted internally on the cover surface of LPZ control stations, up to 3 elements per actuator.

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPXCS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw
D 1 t -	: I D7	and all all the Control of the control

Base mount types snap into LPZ control station base. See example on page 7-27.

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

1NO	LPX CB10	Screw
1NC	LPX CB01	Screw

Contact elements for push-push button actuators

See page 7-20. Type: LPX C10A (1EM) LPX C01 (1NC)

Contacts snap onto the adapter and 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

Mechanical reset buttons, complete unit, spring return

PLatinum Ø22mm series



Order code	Colour	Qty per pkg	Wt
		n°	[kg]
	" stroke). Adjustable length ift (without mounting adap		
LPC R1002	Black	10	0.038
LPC R1003	Green	10	0.038
LPC R1004	Red	10	0.038
LPC R1006	Blue	10	0.038

Extended (5.2mm/0.2" stroke). Adjustable length 0-150mm/5.9". Complete with shaft (without mounting adapter). Spring return. LPC R2004 0.040

Blue (RESET)

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

LPC R11960

Pushbutton actuators, spring return, with symbol





Red 10 0.1	025 025 025 025 025			
LPC B1102 0 Black Red 10 0.4 LPC B1104 Red 10 0.4 LPC B1113 I Green 10 0.4 LPC B1118 White 10 0.4 LPC B1123 II Green 1 0.4 LPC B1128 White 1 0.4 LPC B1132 STOP Black 1 0.4 LPC B1134 Red 10 0.4 LPC B1142 White 10 0.4 LPC B1148 White 10 0.4 LPC B1152 Black 10 0.4 LPC B1158 START Green 10 0.4 LPC B1163 START Green 10 0.4 LPC B1168 White 1 0.4 LPC B1176 R Blue 1 0.4	025			
Red 10 0.1	025			
LPC B1113	025			
LPC B1118				
LPC B1123 II Green 1 0.1 LPC B1128 White 1 0.1 LPC B1132 STOP Black 1 0.1 LPC B1134 Red 10 0.1 LPC B1142 Black 10 0.1 LPC B1148 White 10 0.1 LPC B1152 Black 10 0.1 LPC B1158 White 10 0.1 LPC B1163 START Green 10 0.1 LPC B1168 White 1 0.1 LPC B1176 R Blue 1 0.1)25			
LPC B1128 White 1 0.4 LPC B1132 STOP Black 1 0.4 LPC B1134 Red 10 0.4 LPC B1142 Black 10 0.4 LPC B1148 White 10 0.4 LPC B1152 Black 10 0.4 LPC B1158 White 10 0.4 LPC B1163 START Green 10 0.4 LPC B1168 White 1 0.4 LPC B1176 R Blue 1 0.4				
LPC B1132 STOP Black 1 0.1 LPC B1134 Red 10 0.1 LPC B1142 Black 10 0.1 LPC B1152 White 10 0.1 LPC B1158 Black 10 0.1 LPC B1163 START Green 10 0.1 LPC B1168 White 1 0.1 LPC B1176 R Blue 1 0.1)25			
Red 10 0.1)25			
Black 10 0.1	025			
LPC B1148 White 10 0.1 LPC B1152 Black 10 0.1 LPC B1158 White 10 0.1 LPC B1163 START Green 10 0.1 LPC B1168 White 1 0.1 LPC B1176 R Blue 1 0.1	025			
LPC B1148 White 10 0.0 LPC B1152 ▶ Black 10 0.0 LPC B1158 White 10 0.0 LPC B1163 START Green 10 0.0 LPC B1168 White 1 0.0 LPC B1176 R Blue 1 0.0	025			
LPC B1158 White 10 0.1 LPC B1163 START Green 10 0.1 LPC B1168 White 1 0.1 LPC B1176 R Blue 1 0.1)25			
LPC B1158 I White 10 0.0 LPC B1163 START Green 10 0.0 LPC B1168 White 1 0.0 LPC B1176 R Blue 1 0.0)25			
LPC B1168 White 1 0.1 LPC B1176 R Blue 1 0.1	025			
LPC B1176 R Blue 1 0.0	025			
5.45)25			
LPC B1178 White 1 0.0)25			
)25			
LPC B1196 RESET Blue 10 0.4)25			
LPC B1502)25			
LPC B1512 →)25			
Extended (without mounting adapter). Spring return.				
LPC B2102 O Black 10 0.1)27			
LPC B2104 Red 10 0.4)27			
LPC B2132 STOP Black 1 0.				
LPC B2134 Red 10 0.)27			

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

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.

Mechanical endurance

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

Mounting adapter

0.038

10

See page 7-20.

Type: LPX AU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) also on the cover of LPZ control stations except for LPC R... types. The mounting adapter directly snaps onto the actuator.

Contact elements for mechanical reset buttons

See page 7-20 or 7-23.

Туре	Termination
Front mount types snap onto LPX	AU120 mounting adapter (to
purchase separately), if any contact	
Up to 6 contacts can be fitted: 3 e	ach on the left and right,
one behind the other.	

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPX CS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Contact elements for spring-return button actuators See pages 7-20, 7-23 or 7-24.

Type	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.

They can also be fitted internally on the cover surface of control stations LPZ, up to 3 elements per actuator.

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPX CS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Base-mount types snap into LPZ control station base. See example on page 7-27.

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

1NO	LPX CB10	Screw
1NC	LPX CB01	Screw

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

Certifications and compliance



Pushbutton actuators, spring return, with symbol



Order code	Symbol	Colour	Qty per pkg	Wt
			n°	[kg]
Spring return (with	nout mountin	g adapter)		
LPCB 0 @180	40	8	50	0.027
LPCB00200	OPEN	8	50	0.027
LPCB@@21@	CLOSED	8	50	0.027
LPCB@22@	1	0	50	0.027
LPCB@23@		0	50	0.027
LPCB@25@	+	0	50	0.027
LPCB@26@	_	0	50	0.027
LPCB@27@	<u>~</u>	0	50	0.027
LPCB@28@	-¦Ç-	8	50	0.027
LPCB@29@	<u></u>	6	50	0.027
LPCB@930@	ALTO	6	50	0.027
LPCB@@31@	BASSO	6	50	0.027
LPCB@932@	sx 📥	8	50	0.027
LPCB@933@	DX -	8	50	0.027
LPCB0@34@	MAN	8	50	0.027
LPCB0@35@	AUT0	8	50	0.027
LPCB0@38@	TRIP	8	50	0.027
LPCB0@39@	TEST	8	50	0.027
LPCB 0 @40®	\triangle	0	50	0.027
LPCB00410	ıÎr	8	50	0.027
LPCB0@420	$\overline{\oplus}$	0	50	0.027
LPCB0@43@	@	0	50	0.027
LPCB00440	1	0	50	0.027
LPCB0@45@	ww	0	50	0.027
LPCB0@46@		0	50	0.027
LPCB00470	<u></u>	0	50	0.027
LPCB 0 @48®		8	50	0.027
LPCB00490	↑↓	8	50	0.027
LPCB00520	~	8	50	0.027
LPCB00530	ı J r	8	50	0.027
LPCB0@54@	•	0	50	0.027
LPCB0@550		0	50	0.027
LPCB0@56@	START STOP	0	50	0.027
LPCB00570	III	0	50	0.027
LPCB00580	IV	8	50	0.027
LPCB0@598		0	50	0.027
LPCB@600	,Å.	0	50	0.027
LPCB@@61@		0	50	0.027
LPCB@628	~	0	50	0.027
LPCB@638	<u></u>	0	50	0.027
LPCB@64@	0	6	50	0.027
LPCB@65@	1	6	50	0.027
LPCB0@66@	0	8	50	0.027
LPCB0@67@	←→	0	50	0.027
LPCB@68@	À	0	50	0.027
LPCB0@69@	→ ▶	0	50	0.027
	1		1	

- 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.

 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:

LPC B2 25 8 – extended non-illuminated white pushbutton with + symbol LPC BL1 68 5 – flush illuminated yellow pushbutton actuator with \triangle 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/CSA: 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 7-20.

Type: LPX AU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-20, 7-23 or 7-24

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

(to purchase separately). Up to 9 contacts can be fitted: 3 each on the left, middle and

right, one behind the other. They can also be fitted internally on the cover surface of LPZ control stations, up to 3 elements per actuator.

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPX CS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Base-mount types snap into LPZ control station base. See example on page 7-27.

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

- p - c - c - c - c - c - c - c - c - c		
1NO	LPX CB10	Screw
1NC	LPX CB01	Screw

All these actuators are standard supplied with action plug for

Certifications and compliance

Mushroom head pushbutton actuators

PLatinum Ø22mm series



LPC B614...



LPC B674...



LPC B6344



LPC B6634



LPC B6644



LPC B684...

			1 01
		n°	[kg]
Order code	Colour	Qty per pkg	VVI
Order code	Colour	Oto	Wt

SPRING RETURN

Ø40mm/1.6" (without mounting adapter).

LPC B6142	Black	10	0.033
LPC B6143	Green	10	0.033
LPC B6144	Red	10	0.033
LPC B6145	Yellow	10	0.033
LPC B6146	Blue	10	0.033
OCO			

Ø60mm/2.4"	(without	mounting	adapter).
------------	----------	----------	-----------

Ø60mm/2.4" (without mounting adapter).			
LPC B6162	Black	10	0.038
LPC B6163	Green	10	0.038
LPC B6164	Red	10	0.038
LPC B6165	Yellow	10	0.038
LPC B6166	Blue	10	0.038

LATCH, PULL TO RELEASE

Ø40mm/1.6" (without mounting adapter).

For normal stopping

LPC B6742	Black	10	0.097	
For emergency stopping, ISO 13850 compliant.				
LPC B6744	Red	10	0.097	

LATCH, TURN TO RELEASE

Ø40mm/1.6" (without mounting adapter).

For normal stopping.

LPC B6342	Black	10	0.046
LPC B6344	Red	10	0.046
Ø30mm/1 2" (without mounting adapter)			

For emergency stopping, ISO 13850 compliant.

LPC B6634 0.079 Red 10

Ø40mm/1.6" (without mounting adapter) For emergency stopping, ISO 13850 compliant.

LPC B6644 Red 0.079

LATCH, TURN KEY TO RELEASE

Ø40mm/1.6" (without mounting adapter). Key code n° 455. For normal stopping.

LPC B6842	Black	10	0.083
LPC B6842R0	Black	1	0.083
For emergency stopping, ISO 13850 compliant.			
LPC B6844	Red	10	0.083

LPC B6844R0 Red 1 0.083 1 Versions with different key codes.

Versions with unterlinkey codes.
Complete with the numeric code of the key.
The following versions are available: 421E, 458A, 520E, 3131A, 3433E.
Example of complete code: LPC B6844R 421E.

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

With contact type LPX C01SM



Contact .3-.4 closes when the

| 3 | 1 | LPX AU120 mounting adapter and
| LPX ... SM contact are fitted
| 2 | LPX ... SM contact are fitted
| actuator.
| Contact .1-.2 in series does not change state.



.3-.4 in series does not

If the contact LPX CO1SM detaches from the actuato If the contact LFA CO15M 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.







With contact type LPX C02SM



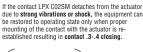
Contact .3-.4 closes when the LPX AU120 mounting adapter and LPX...SM contact are fitted correctly on the mushroom-head latch actuator.

Both contacts .1-.2 in series do not change state.

When the button is fully pressed.

change state.

both contacts .1-.2 open and remain in this state until the button is released. Contact .3-.4 in series does not







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

Polvamide.

Mechanical endurance

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

- Mushroom head spring return buttons: 5,000,000 cycles
- Mushroom head latch buttons: 300,000 cycles.

Mounting adapter

See page 7-20.

Type: LPX AU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-20, 7-23 or 7-24.

Type	Terminatio
------	------------

Front-mount types snap onto LPX AU120 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

For LATCH types, up to 4 contacts can be fitted.

They can also be fitted internally on the cover surface of LPZ control stations, up to 3 elements per actuator.

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPXCS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Base-mount types snap into LPZ control station base. See example on page 7-27.

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

op to o conta	oto outi bo titte	a por control clation detactor.
1NO	LPX CB10	Screw
1NC	LPX CB01	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	LPX C01SM	Screw (2 stacked in the middle - LPX AU120 pos.1/3-4/6)
1NO	LPX C10	Screw (2 stacked on the right)
	LPX CF10	Faston (2 stacked on the right)
1NC	LPX C01	Screw (2 stacked on the right)
	LPX CF01	Faston (2 stacked on the right)

AUTO-MONITOR CONTACT with MUSHROOM-HEAD LATCH TYPES only: 2 elements max of this type can be mounted. Only one of this type per actuator can be fixed internally on the cover surface of LPZ control stations. No LED element can be installed

Auto-monitor	LPX C02SM	Screw (2 stacked)
2NC		, ,

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

Certifications and compliance

Pushbuttons and selector switches

PLatinum Ø22mm series



Double-touch actuators, spring return





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

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

LPC B7112	Black/Red	_	5	0.030
LPC B7113	Green/Red		5	0.030
LPC B7114	White/Black		5	0.030
LPC B7122	Black/Red	I-0	5	0.030
LPC B7123	Green/Red	I-0	5	0.030
LPC B7124	White/Black	I-0	5	0.030
LPC B7133	Green/Red	Start/Stop	5	0.030
LPC B7191	Black/Black	↑	5	0.030
		↓		

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

adapter). Dotti spring return.			
Black/Red	_	1	0.030
Green/Red		5	0.030
White/Black		1	0.030
Black/Red	I-0	5	0.030
Green/Red	I-0	5	0.030
White/Black	I-0	1	0.030
Green/Red	Start/Stop	5	0.030
	Black/Red Green/Red White/Black Black/Red Green/Red White/Black	Black/Red — Green/Red — White/Black — Black/Red I-O Green/Red I-O White/Black I-O	Black/Red — 1 Green/Red — 5 White/Black — 1 Black/Red I-O 5 Green/Red I-O 5 White/Black I-O 1

Triple-touch actuators, spring return



LPC B73..

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

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

LPC B7345		5	0.030
	STOP		
	H		
LPC B7355	↑	5	0.030
	STOP		
	↓ ↓		
LPC B7365	→	5	0.030
	STOP		
	←		
LPC B7375	7	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.

Polyamide.

Mechanical endurance

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

Mounting adapter

See page 7-20. Type: LPX AU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-20, 7-23 or 7-24.

Туре	Termination
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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. They can also be fitted internally on the cover surface of LPZ control stations: 2 for double-touch and 3 elements for triple-

LPX C10 LPX CF10 LPXCS10	Screw Faston
	Faston
L DVCC10	
LLY0910	Spring clamp
LPX C10A	Screw
LPX C01	Screw
LPX CF01	Faston
LPX CS01	Spring clamp
LPX C01D	Screw
	LPX C10A LPX C01 LPX CF01 LPX CS01

Base-mount types snap into LPZ control station base.

See example on page 7-27.
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	LPX CB10	Screw
1NC	LPX CB01	Screw

Certifications and compliance

Order code

LPC S220

LPC S221

LPC S230

LPC S231

LPC S232

LPC S233

PLatinum Ø22mm series

Selector switch actuators



Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 position (without	mounting adapter).		
LPC \$120		10	0.037
LPC \$121	∇	10	0.037
3 position (without	mounting adapter).		
LPC \$130	\downarrow	10	0.037
LPC S131	\oplus	10	0.037
LPC \$132	\bigcirc	10	0.037
LPC S133	T)	10	0.037

Type of

2 position (without mounting adapter).

3 position (without mounting adapter).

positions

Selector switch actuators long lever



Selector switch actuators kev



Order code	Type of positions	Qty per pkg	Wt
		n°	[kg]
2 position (without	mounting adapter).		
LPC S320	• ,	10	0.060
LPC S320R€		1	0.060
LPC \$321	• •	10	0.060
LPC S321RO		1	0.060
LPC \$340	•	10	0.060
LPC S340RO	· ·	1	0.060
3 position (without	mounting adapter).		
LPC S330	•	10	0.060
LPC S330R€		1	0.060
LPC S331	• • •	10	0.060
LPC S331R€	<u> </u>	1	0.060
LPC S332@	• 17	10	0.060
LPC \$332R@@		1	0.060
LPC S333@	•	10	0.060
LPC S333R 0 ❷		1	0.060
LPC S350	CÎ.	10	0.060
LPC S350R€	<u>`</u> ₩	1	0.060
LPC S360	•	10	0.060
LPC S360R€	1,	1	0.060
LPC S370@	<₽	10	0.060
LPC S370R⊕@	\\frac{\psi}{2} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	0.060
LPC S380@	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	10	0.060
LPC S380R⊕@	<u> </u>	1	0.060
LPC S390@	<u> </u>	10	0.060
LPC S390R⊕@		1	0.060

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

Contact activiation of 3-position selector switch

Contact activation of 2-position selector switch Contacts

2 0			Unitadi	.0
1 Column		1	2	3
	A	•	•	_
	В	_	_	_
	C	-	•	•

Operational characteristics

- Any mounting position allowed
- Standard key types supplied with 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

Wt

[kg]

0.040

0.040

0.040

0.040

0.040

0.040

per pkg

10

10

10

10

10

10

Polyamide.

Mechanical endurance

Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-20. Type: LPX AU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-20, 7-23 or 7-24.

Termination

Front-mount types snap onto LPX AU120 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.

They can also be fitted internally on the cover surface of LPZ control stations, up to 3 elements per actuator.

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPXCS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Base-mount types snap into LPZ control station base. See example on page 7-27.

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

1	NO	LPX CB10	Screw
1	NC	LPX CB01	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 position

3 position



Special versions

Versions with coloured keys are available upon request. Consult Technical support; see contact details on inside front

Certifications and compliance

Pushbuttons and selector switches

PLatinum Ø22mm series

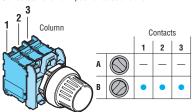


Selector switch actuators

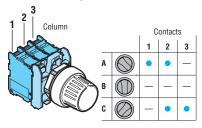


Order code	Type of positions	Qty per pkg	Wt	
		n°	[kg]	
2 position (without	mounting adapter)			
LPC \$420	<u> </u>	10	0.037	
LPC \$421	♡	10	0.037	
3 position (without	3 position (without mounting adapter).			
LPC S430	\vee	10	0.037	
LPC S431	₩	10	0.037	
LPC S432	<₩	10	0.037	
LPC S433	A)	10	0.037	

Contact activation of 2-position selector switch



Contact activation of 3-position selector switch



- Operational characteristics

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

Polyamide.

Mechanical endurance

Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-20. Type: LPX AU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-20, 7-23 or 7-24.

Type	Termination
Front-mount types snap onto LPX	AU120 mounting adapter
(to purchase separately). Up to 6	contacts can be fitted:
2 each on the left, middle and righ	nt or 3 each on the left and
right, one behind the other.	

They can also be fitted internally on the cover surface of LPZ control stations, up to 3 elements per actuator.

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPXCS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Base-mount types snap into LPZ control station base. See example on page 7-27.

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

1NO	LPX CB10	Screw
1NC	LPX CB01	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 position

3 position





Certifications and compliance

Order code

Illuminated button actuators, spring return

PLatinum Ø22mm series





LPC BL20...

Illuminated push-push button actuators



LPC QL10...



LPC QL20...

Illuminated mushroom head button actuators



LPC BL614...



LPC BL664...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without m	ounting adapter). Sprin	g return.	
LPC BL103	Green	10	0.025
LPC BL104	Red	10	0.025
LPC BL105	Yellow	10	0.025
LPC BL106	Blue	10	0.025
LPC BL107	Transparent	10	0.025
Extended (withou	Extended (without mounting adapter). Spring return.		
LPC BL203	Green	10	0.027
LPC BL204	Red	10	0.027
LPC BL205	Yellow	10	0.027
LPC BL206	Blue	10	0.027
LPC BL207	Transparent	10	0.027

		per pkg			
		n°	[kg]		
	Flush (without mounting adapter). Push on-push off.				
LPC QL1030	Green	10	0.025		
LPC QL1040	Red	10	0.025		
LPC QL1050	Yellow	10	0.025		
LPC QL1060	Blue	10	0.025		
LPC QL107€	Transparent	10	0.025		
Extended (without Push on-push off	t mounting adapter).				
LPC QL203€	Green	10	0.027		
LPC QL204€	Red	10	0.027		
LPC QL205€	Yellow	10	0.027		
LPC QL206€	Blue	10	0.027		
LPC QL207€	Transparent	10	0.027		

Colour

Use contact elements LPX C10A (EM) and LPXC01 (NC) only. Contact elements LPX C10 (NO) and LPX C01D (LB) cannot be fitted on

Order code	Colour	Qty per pkg	Wt		
		n°	[kg]		
SPRING RETURN Ø40mm/1.6" (with	thout mounting adapter).			
LPC BL6143	Green	10	0.035		
LPC BL6144	Red	10	0.035		
LPC BL6145	Yellow	10	0.035		
LPC BL6146	Blue	10	0.035		
LPC BL6148	White	1	0.035		
LATCH, TURN TO RELEASE. Ø40mm/1.6" (without mounting adapter). For normal stopping.					
I DC DI 6643	Groon	4	0.040		

LI U DLUU-U	diccii	'	0.040		
LPC BL6645	Yellow	1	0.040		
LPC BL6646	Blue	1	0.040		
For emergency stopping, ISO 13850 compliant.					
LPC BL6644	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 actuator: 5,000,000 cycles
- Latch mushroom-head actuators: 300,000 cycles.

Mounting adapter

See page 7-20. Type: LPX AU120.

Wt

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) 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 7-20, 7-23 or 7-24.

Type	Termination
------	-------------

Front-mount types snap onto LPX AU120 mounting adapter

(to purchase separately).
For TYPES LPC BL1/BL2/BL61...up to 6 contacts can be fitted: 3 each on the left and right, one behind the other. For TYPES LPC BL66...up to 4 contacts can be fitted: 2 each on the left and right, one behind the other.

They can also be fitted internally on the cover surface of LPZ control stations, up to 2 elements per actuator in addition to the LED element in the middle position.

1NO	LPX C10	Screw
	LPX CF10	Faston
	LPX CS10	Spring clamp
1EM	LPX C10A	Screw
1NC	LPX C01	Screw
	LPX CF01	Faston
	LPX CS01	Spring clamp
1LB	LPX C01D	Screw

Base-mount types snap into LPZ control station base. See example on page 7-27.

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

addition to the 222 diement in the initial profition			
	1NO	LPX CB10	Screw
	1NC	LPX CB01	Screw

Contact elements for illuminated push-push button actuators

See page 7-20.

LPX C10A (1EM) Type:

LPX C01 (1NC)

Contacts snap onto LPX AU120 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 7-22 to 24.

Certifications and compliance

Pushbuttons and selector switches

PLatinum Ø22mm series



Double-touch actuators, spring return, white indicator





LPC BL72...

Order code	Colour	Symbol	Qty per pkg	Wt	
			n°	[kg]	
Two flush pushbuttons (without mounting adapter). Both spring return.					
1 DO DI 7440	DI I - /D I		_	0.000	

Both spring return.				
LPC BL7112	Black/Red	_	5	0.030
LPC BL7113	Green/Red	_	5	0.030
LPC BL7114	White/Black	_	1	0.030
LPC BL7122	Black/Red	I-0	5	0.030
LPC BL7123	Green/Red	I-0	5	0.030
LPC BL7124	White/Black	I-0	5	0.030
LPC BL7133	Green/Red	Start/Stop	5	0.030
LPC BL7191	Black/Black		5	0.030

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

adaptor). Dotti opring rotarni.				
Black/Red	_	1	0.030	
Green/Red	_	5	0.030	
White/Black		1	0.030	
Black/Red	I-0	1	0.030	
Green/Red	I-0	5	0.030	
White/Black	I-0	5	0.030	
Green/Red	Start/Stop	5	0.030	
	Black/Red Green/Red White/Black Black/Red Green/Red White/Black	Black/Red	Black/Red — 1 Green/Red — 5 White/Black — 1 Black/Red I-O 1 Green/Red I-O 5 White/Black I-O 5	

Illuminated selector switch actuators



LPC SL1...

Order code	Colour	Type of positions	Qty per pkg.	Wt
			n°	[kg]
2 position (without mounting adapter).				
LPC SL1203	Green		10	0.025
LPC SL1204	Red		10	0.025
LPC SL1205	Yellow		10	0.025
LPC SL1206	Blue		10	0.025

LFU SL 1204	neu		10	0.023
LPC SL1205	Yellow		10	0.025
LPC SL1206	Blue		10	0.025
LPC SL1208	White		10	0.025
LPC SL1213	Green	\(\frac{1}{2} \)	10	0.025
LPC SL1214	Red		1	0.025
LPC SL1215	Yellow		1	0.025
LPC SL1216	Blue		1	0.025
LPC SL1218	White		10	0.025

3 position	(without	mounting	adapter)	١.
------------	----------	----------	----------	----

LPC SL1303	Green		10	0.025
LPC SL1304	Red		10	0.025
LPC SL1305	Yellow		10	0.025
LPC SL1306	Blue		10	0.025
LPC SL1308	White		10	0.025
LPC SL1313	Green	.CID.	10	0.025
LPC SL1314	Red		1	0.025
LPC SL1315	Yellow		1	0.025
LPC SL1316	Blue		1	0.025
LPC SL1318	White		10	0.025
LPC SL1323	Green	<u>را .</u>	10	0.025
LPC SL1324	Red		1	0.025
LPC SL1325	Yellow		1	0.025
LPC SL1326	Blue		1	0.025
LPC SL1328	White		10	0.025
LPC SL1333	Green	. 15.	10	0.025
LPC SL1334	Red	1	1	0.025
LPC SL1335	Yellow		1	0.025
LPC SL1336	Blue		1	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.

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 7-20.

Type: LPX AU120.

Actuators are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) also on the cover of LPZ control stations.

The mounting adapter directly snaps onto the actuator.

Contact elements

See page 7-20, 7-23 or 7-24.

Туре		Termination	

Front-mount types snap onto LPX AU120 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.

They can also be fitted internally on the cover surface of LPZ control stations, up to 2 elements per actuator in addition to the LED element in the middle position.

1NO	LPX C10	Screw	
	LPX CF10	Faston	
	LPX CS10	Spring clamp	
1EM	LPX C10A	Screw	
1NC	LPX C01	Screw	
	LPX CF01	Faston	
	LPX CS01	Spring clamp	
1LB	LPX C01D	Screw	

Base-mount types snap into LPZ control station base. See example on page 7-27.

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

1NO	LPX CB10	Screw
1NC	LPX CB01	Screw

Selector switch type of positions

Maintained position.

17 Spring return position.

Selector switch rotation angles

2 position





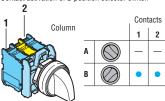
LED light elements

See pages 7-22 to 7-24.

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 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.





Contact activation of 3-position selector switch

Column		Cont	acts
		1	2
A		•	_
В		_	_
С		_	•
	В	B (1)	B

White

10

0.025

LPC SL1338

Pilot light heads



Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Without mount	ing adapter.		
LPL 3	Green	10	0.024
LPL 4	Red	10	0.024
LPL 5	Yellow	10	0.024
LPL 6	Blue	10	0.024
LPL 7	Transparent	10	0.024
LPL 1187	Transparent 4 0	10	0.024

• 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.

Polyamide.

Mounting adapter

See page 7-20. Type: LPX AU120.

Pilot light heads are installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/ 1.69lbft) 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 7-22 to 7-24.

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 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.

LED integrated monoblock pilot lights steady light



LPM...

LPM LA7 Transparent 10 LPM LB1 24VAC/DC 10 Orange LPM LB3 10 Green LPM LB4 Red 10 LPM LB5 Yellow 10 LPM LB6 Blue 10 LPM LB7 Transparent 10 LPM LD1 48VAC/DC Orange LPM LD3 Green 10 LPM LD4 Red 10 LPM LD5 Yellow 10 LPM LD6 Blue LPM LD7 Transparent 10 LPM LE1 110...120VAC Orange LPM LE3 Green LPM LE4 Red LPM LE5 Yellow 10

230VAC

Rated auxi-

liary supply voltage

12VAC/DC

LED

colour

Orange

Green

Yellow

Blue

Blue

Orange

Green Red

Yellow

Transparent 10

Blue

Transparent

Red

Qty

n°

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

10

per pkg

Wt

[kg]

0.021

0.021

0.021

0.021

0.021

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0.024

Order code

LPM LA1

LPM LA3

LPM LA4

LPM LA5

LPM LA6

LPM LE6

LPM LE7

LPM LM1

LPM LM3

LPM LM4

LPM LM5

LPM LM6 LPM LM7

Operational characteristics

- Nominal frequency: 50-60Hz
- Supply voltage: 12VAC/DC, 24VAC/DC, 48VAC/DC, 110VAC, 230VAC (-15%...+10% Ue)
- Consumption: ≤20mA
- Installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) also on cover of LPZ control stations
- Electrical life: >30,000 hours
- Screw termination
- Side cable entry
- Maximum tightening torque: 0.8Nm
- Ambient conditions:
- Operating temperature: -25...+70°C
- Degree of protection:
- per IEC/EN: IP66, IP67 and IP69K on front; IP20 at rear
- per UL: Type 1, 2, 3R, 4, 4X, 12, 12K on front.

Materials

Polyamide.

Maximum conductor cross section

1 or 21.5mm2 or AWG16 cables.

Wiring diagram



Certifications and compliance

Certifications obtained: cULus, EAC, CCC (pending). Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.





Monoblock potentiometers



Order code	Resistance value	Qty per pkg.	Wt
		n°	[kg]
LPC PA001	1kΩ	10	0.040
LPC PA002	2.5kΩ	10	0.040
LPC PA005	5kΩ	10	0.040
LPC PA010	10kΩ	10	0.040
LPC PA050	50kΩ	10	0.040
LPC PA100	100kΩ	10	0.040
LPC PA500	500kΩ	10	0.040

General characteristics

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

- 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/1.69lbft) also on the cover of LPZ control stations
- Resistive material: cermet
- Operation: linear
- Resistance tolerance: ±10%
- Max. power: 1W (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.

Materials

Polyamide.

Maximum conductor cross section

Screw terminal connections with three separate connections:

- Min. cable 0.5mm² / AWG24Max. cable 2.5mm² / AWG14
- Maximum tightening torque: 0.5Nm/0.37lbft
- Flat-head screwdriver: 0.6x3.5mm/0.02x0.14".

Certifications and compliance

Certifications obtained: cULus, EAC, CCC (pending). Compliant with standards: IEC/EN 60947-1 IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.

Monoblock buzzers



LPC 7S...

LPC ZS...IP

		intensity at 2800Hz	per pkg.	
	[V]	[dB/10cm]	n°	[kg]
Continuous or	oulse tone, IP40 ver	rsion.		
LPC ZSA	915VAC/DC	90	1	0.020
LPC ZSB	1830VAC/DC	90	1	0.020
LPC ZSE	85140VAC/DC	90	1	0.020
LPC ZSM	185265VAC/DC	90	1	0.020

Sound

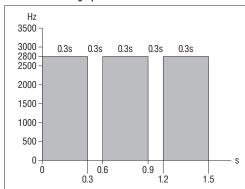
Voltage

Continuous or pulse tone,	IP66, IP67, IP69K,	UL Type 4X
version.		

LPC ZSAIP	915VAC/DC	80	1	0.020
LPC ZSBIP	1830VAC/DC	80	1	0.020
LPC ZSEIP	85140VAC/DC	80	1	0.020
LPC ZSMIP	185265VAC/DC	80	1	0.020

Pulse-tone sound graph

Order code



General characteristics

Qty Wt

Monoblock buzzers are used as sound indicators in automation systems and on-board machinery in the production processes.

Long life, low consumption values, compact size and the use of materials, in accordance with the North American market, are the main features of this product.

Operational characteristics

- Supply voltage: 9.15VAC/DC, 18.30VAC/DC, 85..140VAC/DC, 185..265VAC/DC Maximum absorption: 20mA-0.30W (type 9.15VAC/DC), 15mA-0.40W (type 18.30VAC/DC), 5.5mA-0.80W (type 9.15VAC/DC), 15mA-0.80W (type 9.15VAC/DC)
- 85..140VAC/DC), 3.5mA-0.95W (type 185..265VAC/DC) Minimum activation voltage: >4V (type 9..15VAC/DC), >8V (type 18..30VAC/DC), >15V (type 85..140VAC/DC), >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/1.69lbft) 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 LPC ZS...IP):
- per IEC/EN: IP66, IP67, IP69K on front and IP20 at rear
 per UL: Type 1, 2, 3R, 4, 4X, 12, 12K on front.

Materials

Polyamide.

Maximum conductor cross section

Screw terminal connections with three separate connections:

- Min. cable 0.5mm² / AWG24 Max. cable 2.5mm² / AWG14
- Maximum tightening torque: 0.5Nm/0.37lbft
- Flat-head screwdriver: 0.6x3.5mm/0.02x0.14".

Certifications and compliance

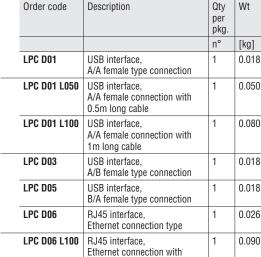
Certifications obtained: cULus, EAC, CCC (pending), RINA (pending)

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

USB and RJ45 communication interfaces







1m long cable





LPC D05

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 Interface mechanical endurance: >750 insertions Installed through a Ø22mm/Ø0.87" drilling with a threaded fixing ring (Tmax = 2.3Nm/1.69lbft) also on the cover of LPZ control stations
- Transmission characteristics for LPCD01, D03, D05: 5Gbps (625MB/sec)
- Transmission characteristics for LPCD06: 10 Gigabit Ethernet IEEE 802.3an-2006
 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 mounted)

Materials

Certifications and compliance

Certifications obtained: cULus, EAC, CCC (pending), RINA

7 Pushbuttons and selector switches

PLatinum Ø22mm series



Accessories and spare parts









LPX AU01







LPX B104



LPX B203





LPX BL204

LPX BL205

LPX BL206

LPX BL207

Order code	Description	Qty per pkg.	Wt
		n°	[kg]
LPX A127	Transparent diffuser for double-touch buttons	10	0.001
LPX A130	Threaded plug for unused drilled holes (grey)	10	0.007
LPX A140	Action plug for centre contact	50	0.001
LPX A150	Rod for mechanical reset button (I=150mm)	10	0.006
LPX A170	Spare standard key set for selector switches or mushroom-head buttons, key code n° 455	10	0.008
LPX A170R®	Spare key set for selector switches or mushroom head buttons, LPCR type	1	0.008
LPX AU00	Plastic threaded ring for actuator fixing	20	0.002
LPX AU01	Metallic threaded ring for actuator fixing	20	0.015
LPX P01	M20 cable gland with threaded ring for LPZ control stations	50	0.012
LPX BO	Flush-extended spring return actuator with no cap	10	0.013
LPX B3	Shrouded spring return actuator with no cap	10	0.014
LPX Q0	Flush-extended push-push actuator with no cap	10	0.013
LPX QL0	Illuminated flush-extended push-push actuator with no lens	10	0.013
Flush cap for spring	j-return actuators.		
LPX B102	Black	10	0.002
LPX B103	Green	10	0.002
LPX B104	Red	10	0.002
LPX B105	Yellow	10	0.002
LPX B106	Blue	10	0.002
LPX B108	White	10	0.002
Extended cap for sp	ring-return actuators.		
LPX B202	Black	10	0.003
LPX B203	Green	10	0.003
LPX B204	Red	10	0.003
LPX B205	Yellow	10	0.003
LPX B206	Blue	10	0.003
LPX B208	White	10	0.003
Flush lens for illumi actuators.	. •		
LPX BL103	Green	10	0.002
LPX BL104	Red	10	0.002
LPX BL105	Yellow	10	0.002
LPX BL106	Blue	10	0.002
LPX BL107	Transparent	10	0.002
actuators.	uminated spring-return		
LPX BL203	Green	10	0.003
LDV DLOC4	D. J	40	0.000

Red

Blue

Yellow

Transparent

10

10

10

10

0.003

0.003

0.003

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: LPX A170R421E.

Accessories and spare parts





LPX AU105





LPX AU158



8 LM2T A185



LPX AU159



	1	-	
Order code	Description	Qty per pkg.	Wt
		n°	[kg]
LPX AU100	Label holder for engraved plastic LPX AU109 label	50	0.001
LPX AU109	Engravable silver plastic label to use with LPX AU100 holder	50	0.002
LPX AU105	Label holder for engraved plastic LPX AU108 label	50	0.003
LPX AU108	Engravable silver plastic label to use with LPX AU105 holder	50	0.002
LPX AU13 0 ❷	Rubber boot for flush button LPC B1/BL1/R1	10	0.006
LPX AU1400	Rubber boot for buttons LPC B2/3, LPC BL2 and LPC R2	10	0.009
LPX AU157	Rubber boot for double and triple-touch buttons, transparent	10	0.007
LPX AU167@®	Rubber boot for mushroom head buttons LPC B63/B66/B67/ BL66 transparent	10	0.012
LPX AU158@@	Padlockable protection, Ø5-8mm locks or buttons LPC B66/B67/ B68/BL664; for LPC B634 Ø5-6mm/0.2-0.24" locks only.	10	0.005
LPX AU159@@	Shroud for buttons LPC B63, LPC B66/67/68/BL666	10	0.010
LPX DIN	Adapter for mounting LPC buttons on DIN rail 35mm/1.38" wide (2 modules)	10	0.008
Other accessories			
8 LM2T A161	Ø30mm/1.2" hole size adapter set for 22mm/ 0.87" (use 2 per hole)	10	0.002
8 LM2T A185	Yellow selector protection shroud for knob type only		0.004
8 LM2T A200	Socket spanner/wrench for fixing ring fitting, metal	1	0.184

- 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).

 Gannot be used when LPX AU100 or LPX AU105 is fitted.

 Cannot be used when LPX AU158 is fitted.

7 Pushbuttons and selector switches

PLatinum Ø22mm series



Labels with text for LPX AU100 legend holder

STOP

8 LM2T AGB230

Order code	Text	Qty per pkg	Wt
		n°	[kg]
General use.			
8 LM2T AU206	Blank for writing	50	0.001
8 LM2T AU207	Sheet with 108 labels for laser printing	10	0.005
8 LM2T AU208 	Sheet with 108 customized text ●	10	0.005
8 LM2T AGB210	LATCH	50	0.001
8 LM2T AGB211	OPEN	50	0.001
8 LM2T AGB212	STOP	50	0.001
8 LM2T AGB213	GENERAL STOP	50	0.001
8 LM2T AGB214	STOP RESET	50	0.001
8 LM2T AGB215	FORWARD	50	0.001
8 LM2T AGB216	CLOSE	50	0.001
8 LM2T AGB217	RIGHT	50	0.001
8 LM2T AGB218	LOWER	50	0.001
8 LM2T AGB219	DEACTIVATED	50	0.001
8 LM2T AGB220	EMERGENCY	50	0.001
8 LM2T AGB221	OFF	50	0.001
8 LM2T AGB222	REVERSE	50	0.001
8 LM2T AGB223	ON	50	0.001
8 LM2T AGB237	TRIP	50	0.001
8 LM2T AGB224	SLOW	50	0.001
8 LM2T AGB225	START	50	0.001
8 LM2T AGB226	RESET	50	0.001
8 LM2T AGB226	RESET	50	0.001
8 LM2T AGB227	RAISE	50	0.001
8 LM2T AGB228	LEFT	50	0.001
8 LM2T AGB229	POWER ON	50	0.001
8 LM2T AGB225	START	50	0.001
8 LM2T AGB230	STOP	50	0.001
8 LM2T AGB214	STOP-RESET	50	0.001
8 LM2T AGB231 For selector switc	FAST hes.	50	0.001
8 LM2T AI232	ARR-MAR	50	0.001
8 LM2T AI233	AUTO-MAN	50	0.001
8 LM2T AI234	AUTO-O-MAN	50	0.001
8 LM2T Al242	MAN-O-AUTO	50	0.001
8 LM2T AI235	FWD-0-REV	50	0.001
8 LM2T AI236	ON - OFF.	50	0.001
8 LM2T Al241	MAN-AUTO	50	0.001
8 LM2T AGB232	STOP-START	50	0.001
8 LM2T AGB236	OFF-ON	50	0.001
International labels	for push-buttons.		
8 LM2T AU200	0	50	0.001
8 LM2T AU201	I	50	0.001
8 LM2T AU202	II	50	0.001
International labels	for selector switches.		
8 LM2T AU203	0-1	50	0.001
8 LM2T AU204	I-II	50	0.001
8 LM2T AU205	1-0-11	50	0.001
	l .	1	

<sup>Recommended use with LPX AU109 label.
Sheet with 108 adhesive labels.
Complete code with required label text.</sup>

General characteristicsThe labels have indelible scratch-proof black lettering on metalised grey polycarbonate background (adhesive).

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

new

Plastic disk for mushroom head pushbuttons



LPX AU113



LPX AU124

Order code	Text	Qty per pkg.	Wt
		n°	[kg]
LPX AU112	EMERGENZA ARRESTO Ø90mm/3.5"	10	0.005
LPX AU114	EMERGENZA ARRESTO Ø60mm/2.4"	10	0.003
LPX AU113	EMERGENCY STOP Ø90mm/3.5"	10	0.005
LPX AU115	EMERGENCY STOP Ø60mm/2.4"	10	0.003
LPX AU124	IEC60417-5630 symbol according to ISO 13850 Ø90mm/3.5"	10	0.005
LPX AU123	IEC60417-5630 symbol according to ISO 13850 Ø60mm/2.4"	10	0.005
LPX AU118	ARRET D'URGENCE / NOT-AUS/ PARO EMERGENCIA Ø60mm/2.4"	10	0.003
LPX AU110	Adhesive label EMERGENCY STOP (34.5x65mm/1.36x2.56") for LPC B63/663/664/ 67/68/BL66buttons	12	0.001

General characteristicsThe disks are made of non-adhesive plastic.
Plastic disks cannot be used with LPX AU158 and LPX AU159 protection.





Pushbuttons and selector switches

PLatinum Ø22mm series



Mounting adapter

Contact elements

LPX CO2SM



LPX AU120

LPX C..

LPX C01SM

LPX E...

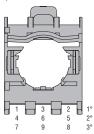
LPX CF01

LPX CF10

Order code	Description	Qty per pkg	Wt
		n°	[kg]
LPX AU120	Mounting adapter	10	0.019

Rear view

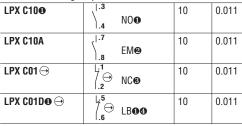
(reference for element installation)



7	9	8	3° row		
Order	code		Function	Qty per pkg	Wt
				n°	[ka]

Screw termination.

Without mounting adapter



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

maom com noda paomodicono.				
LPX C01SM⊕	(1.3 .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	0.022	
LPX C02SM⊕	→ → 1.3 1 1 2NC O	1	0.033	

Screw termination. With mounting adapter.

LPX E100 10 0.029 NO LPX E01 → 10 0.029 → NC❸

Fas	ton termir	iation.
\	hout mou	ntina adant

Without mounting adapter.

LPX CF100	\.4 NO ⊕	10	0.012
LPX CF01 →	.1 → NC®	10	0.012

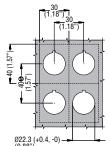
• Use LPX C10A (EM) or LPX C01 (NC) type only with push-push

- Not suitable for push-push actuators.

 Not suitable for push-push actuators.

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

Drillings - Minimum recommended distances



When using Faston, pitch is 85mm/3.35" minimum.

Operational characteristics

- Any mounting position allowed.
 All LPX C... types snap onto LPX AU120 mounting adapter:
- · See the combinations given under "Contact elements" in the right-hand column for each type of pushbutton and selector switch
- · A maximum of 3 contacts or 2 contacts and 1 LED element (LPX L... mounted in the middle position) can be fixed internally on the cover surface of LPZ control stations.
- A maximum of 2 LPX C...SM contacts can be installed on LPX AU120 adapter exclusively on non-illuminated mushroom-head latch actuators:
 - In pos. 1-3 (on the left side only of LPX AU120; refer to REAR VIEW drawing), one only LPX C01SM or LPX C02SM element can be fitted.
 - One extra LPX...SM can be installed in pos. 4-6 (stacked behind the LPX...SM on the LPX AU120)
 - · With LPX C01SM, a maximum of two contacts LPX CO... or LPX C1... can be fitted on the right side in LPX AU120 pos. 2 and 5, one behind the other.
- On the internal surface of LPZ control station covers, one only LPX C01SM or LPX C02SM contact can be mounted on LPX AU120 pos. 1 (on the left). With LPX C01SM, one extra element LPX Co ... LPX C1... can be fitted on the right (LPX AU120 pos. 2).
- · No LED element can be used with LPX C...SM types.
- Maximum tightening torque for screw terminals: 1Nm/0.74lbft
- Ambient conditions:
 - Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection:
- IP20 for screw termination
- · IP00 for Faston termination.

General characteristics of contact elements

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

Conductivity: 5V 1mA

UL/CSA and IEC/EN 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	peratio	onal	charac	teristi	cs in E)C13 ca	ategory	r:	
[V]	12	24	1	48	125	250	440	500	600	
[A]	3	3		1.5	0.55	0.27	0.15	0.13	0.1	

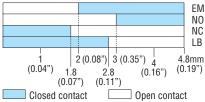
Short-circuit protection fuse: max calibre: 10A gG/SC.

Contact resistance: ≤20mΩ.

Clamp screw with washer.

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

Stroke of contact elements



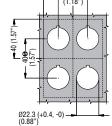
Maximum conductor cross section for screw terminals 1 or 2 2.5mm² or AWG14 cables.

Mechanical and electrical endurance

Operating force: ≤0.5kg/1.1lb (auxiliary contacts) Electrical life: 1,000,000 cycles for LPXC10/01/E10/01, LPX C01SM/02SM, LPXCF10/01; 600,000 cycles for I PXC10A/01D

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, CCC,



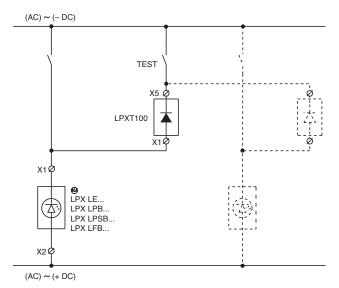
Test elements for steady-light LED elements



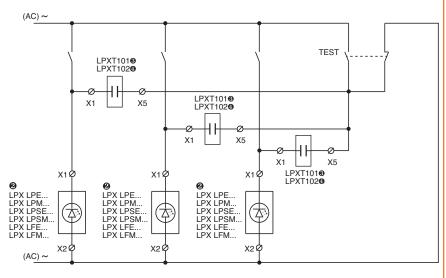
Order code	Description	Qty per pkg	Wt
		n°	[kg]
LPX T100 0 0	Use with LED elements in AC/DC, types LPX LE (all), LPX LFB, LPX LPB and LPX LPSB	10	0.011
LPX T101@	Use with LED elements at 85-140VAC for types LPX LFE LPX LPE and LPX LPSE	10	0.011
LPX T102@	Use with LED elements at 185-265VAC for types LPX LFM, LPX LPM and LPX LPSM	10	0.011

- Whenever test circuits include illuminated actuators connected with paralleled load, use two LPX T100 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 LPX T100 type, the LED element works at full voltage and brightness while with AC supply for all LPX T... types, the LED element works at half voltage with reduced brightness level.

For LPX T100 test element



For LPX T101 and LPX T102 test elements



- 3 Use with LPX LFE..., LPX LPE... or LPX LPSE... type.
- 4 Use with LPX LFM..., LPX LPM... or LPX LPSM... type.

Operational characteristics

- Supply voltage:
 LPX T100 test element:
 - LPX 1100 test element.

 12...30VAC/DC for LPX LEB/LFB/LPB/LPSB...

 85...140VAC/DC for LPX LEM...

 185...265VAC/DC for LPX LEM...
- LPX T101 test element: 85-140VAC
- LPX T102 test element: 185-265VAC
 For use with LED elements LPX LPBB/LPBE/LPBM. types, consult Technical support; see contact details on inside front cover
- Electrical life: 100,000 hours
- Any mounting position allowed
- Snap onto LPX AU120 mounting adapter beside the LED element or stacked behind contact elements; also internally on the LPZ control station cover
- Maximum tightening torque for screw terminals: 1Nm/0.74lbft
- Ambient conditions:
 - Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection: IP20.

Mounting adapter Type: LPX AU120. See page 7-20.

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

Maximum conductor cross section

1 or 2 2.5mm² or AWG 12 cables.

Wiring Diargram

For LPX T100

For LPX T101 - LPX T102

Certifications and compliance



LED elements steady light



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, screw termination. Supplied without mounting adapter.					
LPX LP B3	1230V	Green	10	0.016	
LPX LP B4	AC/DC	Red	10	0.016	
LPX LP B5		Yellow	10	0.016	
LPX LP B6		Blue	10	0.016	
I DV I D DO		\//hito	10	0.016	

LLY IL DO	12307	Green	10	0.010
LPX LP B4	AC/DC	Red	10	0.016
LPX LP B5		Yellow	10	0.016
LPX LP B6		Blue	10	0.016
LPX LP B8		White	10	0.016
LPX LP E3	85140V	Green	10	0.016
LPX LP E4	AC	Red	10	0.016
LPX LP E5	-	Yellow	10	0.016
LPX LP E6		Blue	10	0.016
LPX LP E8		White	10	0.016
LPX LP M3	185265V	Green	10	0.016
LPX LP M4	AC	Red	10	0.016
LPX LP M5		Yellow	10	0.016
LPX LP M6		Blue	10	0.016
LPX LP M8		White	10	0.016

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

Steady light, screw termination. Supplied without mounting adapter.

	0 1			
LPX LE B3	1230V AC/DC	Green	10	0.016
LPX LE B4		Red	10	0.016
LPX LE B5		Yellow	10	0.016
LPX LE B6		Blue	10	0.016
LPX LE B8		White	10	0.016
LPX LE E3	85140V AC/DC	Green	10	0.016
LPX LE E4		Red	10	0.016
LPX LE E5		Yellow	10	0.016
LPX LE E6		Blue	10	0.016
LPX LE E8		White	10	0.016
LPX LE M3	185265V	Green	10	0.016
LPX LE M4	AC/DC	Red	10	0.016
LPX LE M5		Yellow	10	0.016
LPX LE M6		Blue	10	0.016
LPX LE M8		White	10	0.016



Simple protection against overvoltages and to withstand vibrations.

LED elements flashing light



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.

Supplied without mounting adapter.							
LPX LF B3	1830V	Green	10	0.016			
LPX LF B4	AC/DC	Red	10	0.016			
LPX LF B5		Yellow	10	0.016			
LPX LF B6		Blue	10	0.016			
LPX LF B8		White	10	0.016			
LPX LF E3	85140V	Green	10	0.016			
LPX LF E4	AC	Red	10	0.016			
LPX LF E5		Yellow	10	0.016			
LPX LF E6		Blue	10	0.016			
LPX LF E8		White	10	0.016			
LPX LF M3	185265V	Green	10	0.016			
LPX LF M4	AC	Red	10	0.016			
LPX LF M5		Yellow	10	0.016			
LPX LF M6		Blue	10	0.016			
LPX LF M8		White	10	0.016			

Operational characteristics

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

 LPX LP... with steady light: 12...30VAC/DC;
 85...140VAC/DC; 185...265VAC

 LPX LE... with steady light: 12...30VAC/DC;
 85...140VAC/DC; 185...265VAC/DC
- LPX LF... flashing light: 18...30VAC/DC; 85...140VAC, 185...265VAC
- Maximum consumption for:
- LPX LP... steady light and LPX LF... flashing light: 17mA-0.50W (12...30VAC/DC); 20mA-0.40W (85...140VAC); 18mA-0.55W (185...265VAC)
- LPX LE... steady light: 11mA-0.33W (12...30VAC/DC); 5mA-0.72W (85...140VAC/DC); 3mA-0.67W (185...265VAC/DC)
- Total protection for LPX LP... and LPX LF... types:
 - Against overvoltages
 - · Against stray currents in wiring
 - · To reduce flickering phenomenon
- To withstand vibrations
- Minimum activation voltage:
- LPX LP... steady light: 4V-1mA (12...30VAC/DC); 30V-4mA (85...140VAC); 55V-4mA (185...265VAC)
- LPX LE... steady light: 4V-0.5mA (12...30VAC/DC); 15V-0.4mA (85...140VAC/DC); 35V-0.3mA (185...265VAC/DC)
- LPXLF.. flashing light: 5V-1.5mA (18...30VAC/DC);
 13V-1.5mA (85...140VAC); 25V-1.5mA (185...265VAC)
 Simple protection for LPX LE... types
- Against overvoltages
- To withstand vibrations
- Electrical life: 100.000 hours
- Snap onto LPX AU120 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/0.74lbft
- 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 7-20. Type: LPX AU120.

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

Contact elements with spring-clamp terminals



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

Spring-clamp termination. Without mounting adapter.

LPX CS100	\.4 NO ①	10	0.010
LPX CS01 →	7.2 → NC ❷	10	0.010

Not suitable for push-push actuators.

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

LED elements steady light with spring-clamp terminals



LPX LPS...

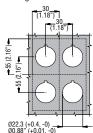
Total protection against overvoltages and stray currents in wiring, to reduce flickering phenomenon and withstand

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

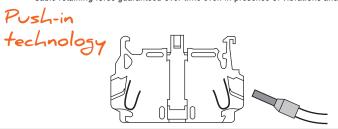
Steady light, with spring-clamp termination. Without mounting adapter.

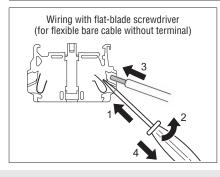
1230VAC/DC	Green	10	0.015
	Red	10	0.015
	Yellow	10	0.015
	Blue	10	0.015
	White	10	0.015
85140VAC	Green	10	0,015
	Red	10	0.015
	Yellow	10	0.015
	Blue	10	0.015
	White	10	0.015
185265VAC	Green	10	0.015
	Red	10	0.015
	Yellow	10	0.015
	Blue	10	0.015
	White	10	0.015
	85140VAC	Red Yellow Blue White S5140VAC Green Red Yellow Blue White 185265VAC Green Red Yellow Blue White S6265VAC Green Red Yellow Blue S6265VAC S	Red 10 Yellow 10 Blue 10 White 10 Red 10 Yellow 10 Blue 10 White 10 Blue 10 White 10 Tellow 10 Red 10 Yellow 10 Red 10 Yellow 10 Blue 10 Tellow 10 Blue 10 Blue 10 Tellow 10 Blue 10 Tellow 10 Blue 10 Tellow 10 Tellow 10 Blue 10 Tellow 10 Tello

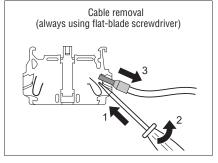
Drillings - Minimum recommended distances



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 LPX AU120 adapter, also internally on LPZ control station cover with maximum of 3 LPX CS... contact or 2 LPX CS... contact and 1 LPX LPS... 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 7-20
- 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 7-20.

Type: LPX AU120

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

General characteristics

CONTACT ELEMENTS

Wiping action and dual scraping-oscillating effect

IEC rated insulation voltage: 690V

IEC rated thermal current Ith: 10A

Conductivity: 1mA 5V

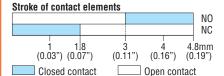
UL/CSA and IEC/EN 60947-5-1 designation: A600 Q600.

IEC/EN operational characteristics in AC15 category:

12	24	48	120	240	400	480	500	600	
6	6	6	6	3	1.9	1.5	1.4	1.2	
IEC/EN operational characteristics in DC13 category:							_		
12	24	4	48	125	250	440	500	600	_
3	3		1.5	0.55	0.27	0.15	0.13	0.1	_
	6 EN o _l	6 6 EN operation	6 6 6 EN operational of 12 24	6 6 6 6 EN operational charact 12 24 48	6 6 6 6 3 EN operational characteristi 12 24 48 125	6 6 6 6 3 1.9 EN operational characteristics in D 12 24 48 125 250	6 6 6 6 3 1.9 1.5 EN operational characteristics in DC13 ca 12 24 48 125 250 440	6 6 6 6 6 3 1.9 1.5 1.4 EN operational characteristics in DC13 category 12 24 48 125 250 440 500	6 6 6 6 3 1.9 1.5 1.4 1.2 EN operational characteristics in DC13 category: 12 24 48 125 250 440 500 600

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

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



Mechanical and electrical endurance of contact elements Opening force: ≤0,5kg/1.1lb

Electrical life: 1.000.000 cycles for LPX CS10 and LPX CS01.

LED ELEMENTS

- Rated frequency: 50-60Hz
- 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: 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 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14.

Accessories page 7-20

Contact elements, base mount on LPZ control stations



LPX CB...

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

Screw termination.

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

Enour chap on mounting on E. E control chatter bacc.						
LPX CB10€	.4	NO	10	0.012		
LPX CB01 →	.1 	NC@	10	0.012		

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

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

Screw termination.

Steady light.

Direct snap-on mounting on LP7 control station base

Direct Shap-off mounting off LFZ Control Station base.							
LPX LPB B3	1230V AC/DC	Green	10	0.016			
LPX LPB B4		Red	10	0.016			
LPX LPB B5		Yellow	10	0.016			
LPX LPB B6		Blue	10	0.016			
LPX LPB B8		White	10	0.016			
LPX LPB E3	85140V AC	Green	10	0.016			
LPX LPB E4		Red	10	0.016			
LPX LPB E5		Yellow	10	0.016			
LPX LPB E6		Blue	10	0.016			
LPX LPB E8		White	10	0.016			
LPX LPB M3	185265V	Green	10	0.016			
LPX LPB M4	AC	Red	10	0.016			
LPX LPB M5		Yellow	10	0.016			
LPX LPB M6		Blue	10	0.016			
LPX LPB M8		White	10	0.016			

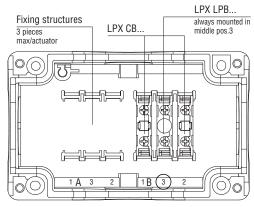
LED elements, steady light base mount on LPZ control **stations**



LPX LPB...

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

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
- Maximum of 3 LPX CB... contact or 2 LPX CB... contact and 1 LPX LPB... LED elements (in middle pos. 3) for each actuator of LPZ control stations
- See the combinations given under "Contact elements" in the right-hand column $\bar{\mbox{for}}$ 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
- Ambient conditions:
- Operating temperature: -25...+70°C
- Storage temperature: -40...+85°C
- Degree of protection: IP20.

General characteristics

CONTACT ELEMENTS

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 60947-5-1 designation: A600 Q600.

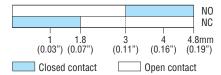
IEC/EN operational characteristics in AC15 category:

[V]	12	24	48	120	240	400	480	500	600
[A]	6	6	6	6	3	1.9	1.5	1.4	1.2
IEC/	EN o	perati	onal	charac	teristi	cs in E	C13 ca	ategory	·:
[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: ≤20mΩ

Terminals: Clamp screw and washer.

Stroke of contact elements



Mechanical and electrical endurance of contact elements

Opening force: ≤0,5kg/1.1lb Electrical life: 1,000,000 cycles for LPX CB10 and LPX CB01.

LED ELEMENTS

- Rated frequency: 50...60Hz
- 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 LPX LPB.....: 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

PLatinum series plastic control stations

Without actuators



LPZ P1 A5



LPZ P2 A5

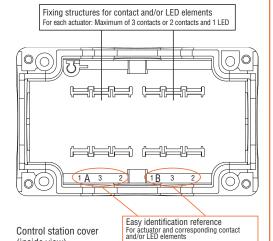


LPZ P3 A8

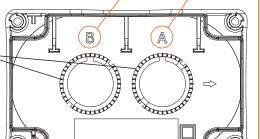
Anti-loosening action Anti-rotation indents to extend fixing ring gripping over time

Order code Description Wt Cover colour Qty pkg n° [kg] LPZ P1 A5 For 1 actuator Yellow 0.107 LPZ P1 A8 For 1 actuator 0.107 Grey LPZ P2 A5 For 2 actuators Yellow 0.152 LPZ P2 A8 0.152 For 2 actuators Grey LPZ P3 A8 0.187 For 3 actuators Grey 0.200 LPZ P4 A8 For 4 actuators LPZ P5 A8 For 5 actuators 0.240 0.290 LPZ P6 A8 For 6 actuators

Control station base



Control station cover (inside view)



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 LPX AU120 mounting adapter
- Numerous cable entries.

CONTROL STATIONS WITH ACTUATOR

Standard supplied with actuator, label holder and STOP legend label excluding types with yellow cover, and one basemount NC contact.

Operational characteristics

- Cable entry:
 - LPZ P1... knockouts:
 - M16/PG11 (1 at rear and 1 on left side)
 - M20/M25/PG13.5/PG16 (1 each on top and bottom)
 - · LPZ P2... knockouts:
 - M16/PG11 (2 at rear)
 - M20/PG13.5 (1 on each side)
 - M20/M25/PG13.5/PG16 (1 each on top and bottom)
 - LPZ P3/P4/P5/P6 A8 knockouts:

 - M16/PG11 (2 at rea)
 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/16lbin
- Ambient conditions:
 - . Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C

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

Materials

Polycarbonate.

Certifications and compliance

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

With one actuator



LPZ P1 B8 02



LPZ P1 B5 03

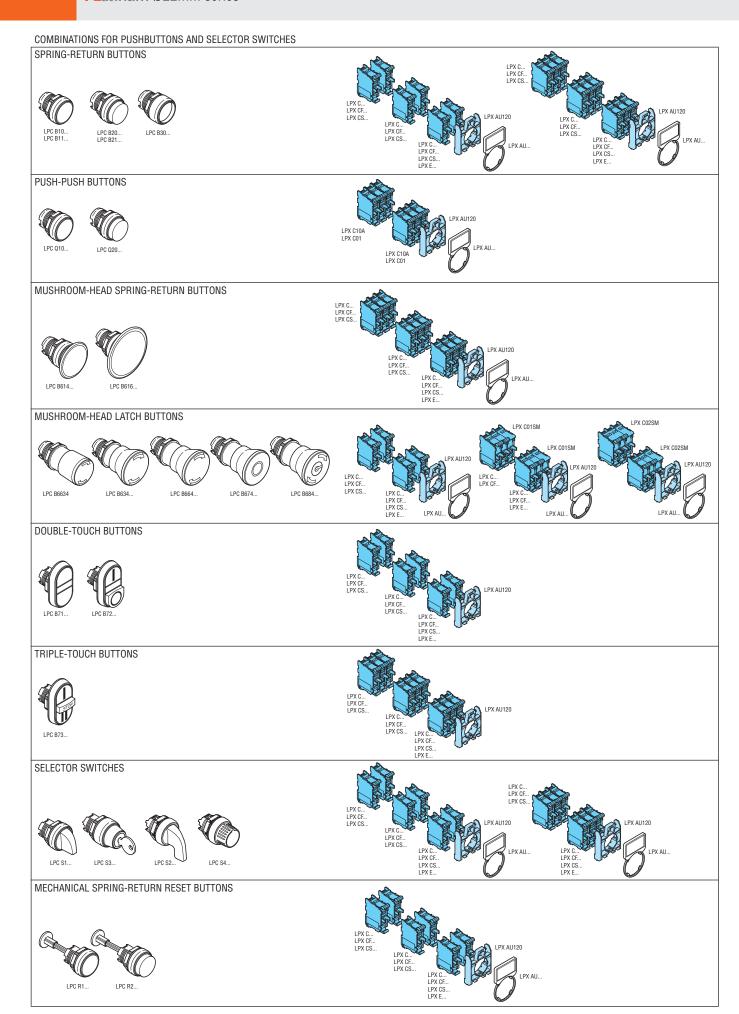
Order code	Control station description	Actuator description	Qty per pkg	Wt
			n°	[kg]
LPZ P1 B8 01	Grey, 1 way LPZ P1 A8	Mushroom-head button LPC B6744 with STOP legend	1	0.150
LPZ P1 B8 02	Grey, 1 way LPZ P1 A8	Mushroom-head button LPC B6344 with STOP legend	1	0.135
LPZ P1 B5 02	Yellow, 1 way LPZ P1 A5	Mushroom-head button LPC B6344	1	0.135
LPZ P1 B5 030	Yellow, 1 way LPZ P1 A5	Mushroom-head button LPC B6644	1	0.150

1 Version with red emergency stop, turn to release and yellow cover compliant with ISO 13850.

Pushbuttons and selector switches

PLatinum Ø22mm series





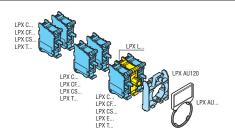
Pushbuttons and selector switches PLatinum Ø22mm series

COMBINATIONS FOR ILLUMINATED PUSHBUTTONS AND SELECTOR SWITCHES

SPRING-RETURN BUTTONS



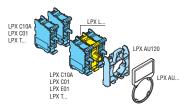




PUSH-PUSH BUTTONS



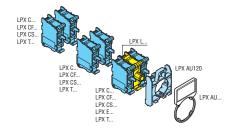




MUSHROOM-HEAD SPRING-RETURN BUTTON



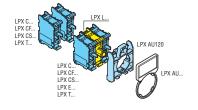
LPC BL614...



MUSHROOM-HEAD LATCH BUTTON



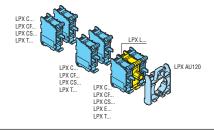
LPC BL664..



DOUBLE-TOUCH BUTTONS







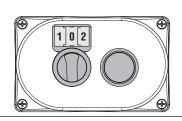
2 AND 3 POSITION SELECTOR SWITCHES

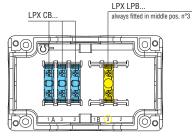




CONTROL STATIONS

Example of 2 way control station equipped with selector switch, label holder and label along with pilot light







Pushbutton actuators, spring return



8 LM2T B20...



Push-push button actuators



8 LM2T Q10...



8 I M2T 020

		per pkg	Wt	
		n°	[kg]	
Flush (without mounting adapter). Spring return.				
8 LM2T B102	Black	10	0.033	
8 LM2T B103	Green	10	0.033	
8 LM2T B104	Red	10	0.033	
8 LM2T B105	Yellow	10	0.033	
8 LM2T B106	Blue	10	0.033	
8 LM2T B108	White	10	0.033	
Extended (without mounting adapter). Spring return.				
8 LM2T B202	Black	10	0.035	
8 LM2T B203	Green	10	0.035	
8 LM2T B204	Red	10	0.035	
8 LM2T B205	Yellow	10	0.035	
8 LM2T B206	Blue	10	0.035	
8 LM2T B208	White	10	0.035	
Shrouded (witho	ut mounting adapter). Sp	oring return		
8 LM2T B302	Black	10	0.035	
8 LM2T B303	Green	10	0.035	
8 LM2T B304	Red	10	0.035	
8 LM2T B305	Yellow	10	0.035	
8 LM2T B306	Blue	10	0.035	
8 LM2T B308	White	10	0.035	

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without mo	unting adapter). Push on	-push off.	
8 LM2T Q102 ⊙	Black	10	0.033
8 LM2T Q1030	Green	10	0.033
8 LM2T Q1040	Red	10	0.033
8 LM2T Q105 ⊙	Yellow	10	0.033
8 LM2T Q106 ⊙	Blue	10	0.033
8 LM2T Q108 ⊕	White	10	0.033
Extended (without Push on-push off.	t mounting adapter).		
8 LM2T Q202 ⊕	Black	10	0.035
8 LM2T Q203 ⊕	Green	10	0.035
8 LM2T Q204 ⊙	Red	10	0.035
8 LM2T Q205 ⊕	Yellow	10	0.035
8 LM2T Q206 ⊕	Blue	10	0.035
8 LM2T Q2080	White	10	0.035

Use contact elements EM (8 LM2T C10A) and NC (8LM2T C01) only. Contact elements NO (8LM2T C10) and LB (8LM2T C01D) cannot be fitted on these actuators. For the number of contact elements, refer to indications in the right-hand column.

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Degree of protection:
- Per IEC/EN: IP65
- Per UL/CSA: 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 and polycarbonate.

Mechanical endurance

Operating force: 0.8kg/1.7lb (actuator).

Mechanical life:

- Spring-return actuators: 1,000,000 cycles
- Push-push actuators: 500,000 cycles.

Mounting adapter

See page 7-41

Type: LM2T AU120.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft).

Actuators latch onto the mounting adapter by simple rotation through a Ø22mm/Ø0.87" drilling also on the cover of LPZ control stations.

Contact elements for spring-return actuators

See page 7-41.

LM2T C10 (1NO) Type: LM2T CF10 (1NO Faston) LM2T C10A (1EM) LM2T C01 (1NC) LM2T CF01 (1NC Faston) LM2T C01D (1LB)

Contact elements snap onto the mounting adapter.
Up to 6 contacts can be fitted: 2 each on the left, middle and right, one behind the other.

Up to 3 contacts per actuator can be internally fitted on the cover surface of LPZ control stations.

To use contact elements in the middle position, install the action plug LM2T A140 on the actuator; see page 7-38.

Contact elements for push-push button actuators

See page 7-41.

LM2T C10A (1EM) Type:

LM2T C01 (1NC)

Contact elements snap onto the mounting adapter. Up to 2 contacts can be fitted: 1 each on the right and left. Up to 2 contacts per actuator can be internally fitted on the cover surface of LPZ control stations (only one on the right and/or on the left).

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, RINA,

Mechanical reset button, complete unit, spring return



8 LM2T R1196

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

Flush (5.2mm/0.2" stroke). Adjustable length 0-140mm/5.5".

Spring return (complete with shart and mounting adapter)				
8 LM2T R1002	Black	10	0.065	
8 LM2T R1003	Green	10	0.065	
8 LM2T R1004	Red	10	0.065	
8 LM2T R1006	Blue	10	0.065	
8 LM2T R11960	Blue (RESET)	10	0.065	

Extended (5.2mm/0.2" stroke). Adjustable length 0-140mm/5.5"

Spring return (complete with shaft and mounting adapter)@ 8 LM2T R2004 Red 0.067 10

- With "RESET" caption on actuator.
- No contact elements can be fitted

Pushbutton actuators, spring return, with symbol



8 LM2T B11...



Order code	Symbol	Colour	Qty per pkg	Wt
			n°	[kg]
Flush (without m	ounting adapt	ter). Spring	ı return.	
8 LM2T B1102	0	Black	10	0.033
8 LM2T B1104		Red	10	0.033
8 LM2T B1113	I	Green	10	0.033
8 LM2T B1118		White	10	0.033
8 LM2T B1123	II	Green	10	0.033
8 LM2T B1128		White	10	0.033
8 LM2T B1132	STOP	Black	10	0.033
8 LM2T B1134		Red	10	0.033
8 LM2T B1142	← 0	Black	10	0.033
8 LM2T B1148	— u	White	10	0.033
8 LM2T B1152	10	Black	10	0.033
8 LM2T B1158	[@	White	10	0.033
8 LM2T B1163	START	Green	10	0.033
8 LM2T B1168		White	10	0.033
8 LM2T B1176	R	Blue	10	0.033
8 LM2T B1178		White	10	0.033
8 LM2T B1196	RESET	Blue	10	0.033
8 LM2T B1502	→	Black	10	0.033
8 LM2T B1512	→ ←	Black	10	0.033
Extended (withou	ıt mounting a	dapter). Sp	ring return.	
8 LM2T B2102	0	Black	10	0.035
8 LM2T B2104		Red	10	0.035
8 LM2T B2132	STOP	Black	10	0.035
8 LM2T B2134		Red	10	0.035

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

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+60°C
 Storage temperature: -40...+70°C
- Degree of protection:
- Per IEC/EN: IP65
- Per UL/CSA: 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 and polycarbonate.

Mechanical endurance

Operating force: 0.8kg/1.7lb (actuator) Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-41

Type: LM2T AU120.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft).

Actuators latch onto the mounting adapter by simple rotation through a Ø22mm/Ø0.87" drilling also on the cover of LPZ control stations.

Contact elements for spring-return actuators with symbols See page 7-41.

LM2T C10 (1NO) Type: LM2T CF10 (1NO Faston)

LM2T C10A (1EM) LM2T CF01 (1NC) LM2T CF01 (1NC Faston) LM2T C01D (1LB)

Contact elements snap onto the mounting adapter. Up to 6 contacts can be fitted: 2 each on the left, middle and

right, one behind the other.

Up to 3 contacts per actuator can be internally fitted on the cover surface of LPZ control stations.

To use contact elements in the middle position, install the action plug LM2T A140 on the actuator; see page 7-38.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, RINA, LROS, CCC.



Mushroom head pushbutton actuators



8 LM2T B614...



8 LM2T B616...



8 LM2T B624...



8 LM2T B634...



8 LM2T B6644



8 LM2T B654...

Order code	Colour	Qty per pkg	Wt		
		n°	[kg]		
SPRING RETURN. Ø40mm/1.6" (withou	SPRING RETURN. Ø40mm/1.6" (without mounting adapter).				
8 LM2T B6142	Black	10	0.037		
8 LM2T B6143	Green	10	0.037		
8 LM2T B6144	Red	10	0.037		
8 LM2T B6145	Yellow	10	0.037		
8 LM2T B6146	Blue	10	0.037		
Ø60mm/2.4" (withou	t mounting ad	apter).			
8 LM2T B6162	Black	10	0.043		
8 LM2T B6163	Green	10	0.043		
8 LM2T B6164	Red	10	0.043		
8 LM2T B6165	Yellow	10	0.043		
8 LM2T B6166	Blue	10	0.043		

LATCH, PULL TO RELEASE.

Ø40mm/1.6" (without mounting adapter)

For normal stopping

To the man etopping.					
8 LM2T B6242	Black	10	0.105		
8 LM2T B6244	Red	10	0.105		

LATCH, TURN TO RELEASE.

Ø40mm/1.6" (without mounting adapter).

For normal stopping.

8 LM2T B6342	Black	10	0.054	
8 LM2T B6344	Red	10	0.054	
0/40mm/1 6" (without mounting adapter)				

For emergency stopping, ISO 13850 compliant.

8 LM2T B6644	Red	10	0.087
	0.051.51.05		

LATCH, TURN KEY TO RELEASE.

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

8 LM2T B6542	Black	10	0.091
8 LM2T B6542G ⊙		1	0.091
8 LM2T B6544	Red	10	0.091
8 LM2T B6544G ⊙		1	0.091

• Versions with different key codes. Complete with the numeric code of the key. The following versions are available: 501, 502, 503, 504, 505, 506, 507, 508, 509, 510. Example of complete code: 8 LM2T B6542G505

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Degree of protection:
- Per IEC/EN: IP66 for mushroom buttons (IP65 for LM2T B654...)
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K except for 8 LM2T B616 which is Type 1, 2, 3R, 12, 12K.

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

Mechanical endurance

Operating force: 0.8kg/1.7lb (actuator).

Mechanical life:

- Mushroom head spring return buttons: 1,000,000 cycles
- Mushroom head latch buttons: 300,000 cycles.

Mounting adapter

See page 7-41

Type: LM2T AU120.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm).

Actuators latch onto the mounting adapter by simple rotation through a Ø22mm/Ø0.87" drilling also on the cover of LPZ control stations.

Contact elements

SPRING RETURN MUSHROOM - HEAD BUTTONS See page 7-41.

LM2T C10 (1NO) Type:

LM2T CF10 (1NO Faston) LM2T C10A (1EM)

LM2T CO1 (1NC) LM2T CF01 (1NC Faston)

LM2T C01D (1LB)

Contact elements snap onto the mounting adapter.

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

Up to 3 contacts per actuator can be internally fitted the cover surface of LPZ control stations.

To use contact elements in the middle position, install on the action plug LM2T A140 on the actuator; see page 7-38.

LATCH MUSHROOM - HEAD BUTTONS

Up to 6 contacts can be fitted: 2 each on the left, middle and right, one behind the other. (for LM2T B624... and LM2T B6644 max 4 contacts).

Up to 3 contacts per actuator can be internally fitted the cover surface of LPZ control stations.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, RINA,

Double-touch actuators, spring return



8 LM2T B71...



Triple-touch actuators, spring return



8 LM2T B73..

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

Two flush push-buttons (without mounting adapter). Both spring return.

Black/Red	none	5	0.044
Green/Red	none	5	0.044
White/Black	none	5	0:044
Black/Red	I-0	5	0.044
Green/Red	I-0	5	0.044
White/Black	I-0	5	0.044
Green/Red	Start/Stop	5	0.044
	Green/Red White/Black Black/Red Green/Red White/Black	Green/Red none White/Black none Black/Red I-O Green/Red I-O White/Black I-O	Green/Red none 5 White/Black none 5 Black/Red I-O 5 Green/Red I-O 5 White/Black I-O 5

One extended and one flush push-button (without mounting adapter). Both spring return

mounting adapter). Both opining rotarn.				
8 LM2T B7212	Black/Red	none	5	0.044
8 LM2T B7213	Green/Red	none	5	0.044
8 LM2T B7214	White/Black	none	5	0.044
8 LM2T B7222	Black/Red	I-0	5	0.044
8 LM2T B7223	Green/Red	I-0	5	0.044
8 LM2T B7224	White/Black	I-0	5	0.044
8 LM2T B7233	Green/Red	Start/Stop	5	0.044
	8 LM2T B7212 8 LM2T B7213 8 LM2T B7214 8 LM2T B7222 8 LM2T B7223 8 LM2T B7224	8 LM2T B7212 Black/Red 8 LM2T B7213 Green/Red 8 LM2T B7214 White/Black 8 LM2T B7222 Black/Red 8 LM2T B7223 Green/Red 8 LM2T B7224 White/Black 8 LM2T B7233 Green/Red	8 LM2T B7212 Black/Red none 8 LM2T B7213 Green/Red none 8 LM2T B7214 White/Black none 8 LM2T B7222 Black/Red I-O 8 LM2T B7223 Green/Red I-O 8 LM2T B7224 White/Black I-O	8 LM2T B7212 Black/Red none 5 8 LM2T B7213 Green/Red none 5 8 LM2T B7214 White/Black none 5 8 LM2T B7222 Black/Red I-O 5 8 LM2T B7223 Green/Red I-O 5 8 LM2T B7224 White/Black I-O 5

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

Triple-touch actuator (without mounting adapter). Spring return.

8 LM2T B7345	1	5	0.044
	STOP		
	П		
8 LM2T B7355	†	5	0.044
	STOP		
	↓		
8 LM2T B7365	→	5	0.044
	STOP		
	←		
8 LM2T B7375	7	5	0.044
	STOP		
	K		

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+60°C
 Storage temperature: -40...+70°C
- Degree of protection:
 Per IEC/EN: IP40.
- Per UL/CSA: Type 1.

Materials

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

Mechanical endurance

Operating force: 0.8kg/1.7lb (actuator) Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-41

Type: LM2T AU120.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft).

Actuators latch onto the mounting adapter by simple rotation through a Ø22mm/Ø0.87" drilling also on the cover of LPZ control stations.

Contact elements

See page 7-41.

LM2T C10 (1NO) Type:

LM2T CF10 (1NO Faston) LM2T C10A (EM) LM2T C01 (1NC) LM2T CF01 (1NC Faston) LM2T C01D (LB)

Contact elements snap onto the mounting adapter.

FOR DOUBLE-TOUCH BUTTONS

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

Up to 2 contacts per actuator can be internally fitted on the cover surface of LPZ control stations, 1 on the left and right.

FOR TRIPLE-TOUCH BUTTONS

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

Up to 3 contacts per actuator can be internally fitted on the cover surface of LPZ control stations.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, RINA, LROS, CCC.



Selector switch actuators short lever



8 LM2T S1...

Order code	Type of position	Qty per pkg	Wt
		n°	[kg]
2 position (without m	nounting adap	ter).	
8 LM2T \$120	\ <u>\</u>	10	0.049
8 LM2T \$121	∇	10	0.049
3 position (without m	nounting adap	ter).	
8 LM2T \$130	\vee	10	0.049
8 LM2T S131	4	10	0.049
8 LM2T S132	⟨√	10	0.049
8 LM2T \$133	W.	10	0.049

Selector switch actuators long lever



8 LM2T S2...

Order code	Type of	Qty	Wt
	position	per pkg	
		n°	[kg]
2 position (without m	nounting adap	ter).	
8 LM2T S220	\ <u>\</u>	10	0.050
8 LM2T S221	♥	10	0.050
3 position (without m	nounting adap	ter).	
8 LM2T S230	\forall	10	0.050
8 LM2T S231	4	10	0.050
8 LM2T S232	$\langle \downarrow \rangle$	10	0.050
8 LM2T S233	V	10	0.050

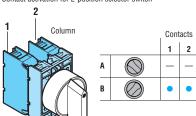
Selector switch actuators kev



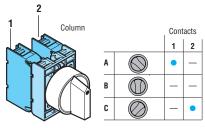
8 LM2T S3...

Order code	Type of position	Qty per pkg	Wt
		n°	[kg]
2 position (without n	nounting ada	pter).	
8 LM2T S320	• ,	10	0.079
8 LM2T \$320GO		1	0.079
8 LM2T S321	• •	10	0.079
8 LM2T S321GO		1	0.079
8 LM2T S340	•,~,	10	0.079
8 LM2T S340G0		1	0.079
3 position (without n	nounting ada	pter).	
8 LM2T S330	. 1	10	0.080
8 LM2T \$330GO		1	0.080
8 LM2T S331	• • •	10	0.080
8 LM2T S331GO		1	0.080
8 LM2T S332❷	• 17	10	0.080
8 LM2T \$332G ⊕ ❷		1	0.080
8 LM2T S333❷	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	10	0.080
8 LM2T \$333G ⊕ ❷		1	0.080
8 LM2T S350	(1)	10	0.080
8 LM2T S350GO	`\V	1	0.080
8 LM2T S360	(1)	10	0.080
8 LM2T S360GO	1	1	0.080
8 LM2T S370❷	(1)	10	0.080
8 LM2T S370G ⊙ ❷	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	0.080
8 LM2T S380❷	C1.	10	0.080
8 LM2T S380G ⊙ ❷] `\/	1	0.080
8 LM2T S390❷	• 15	10	0.080
8 LM2T \$390G ⊙ ❷		1	0.080

Contact activation for 2-position selector switch



Contact activation of 3-position selector switch



Operational characteristics

- Any mounting position allowed
- Ambient conditions:
 - Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Degree of protection:
- Per IEC/EN: IP65
- Per UL/CSA: 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 and polycarbonate.

Mechanical endurance

Mechanical life: 300,000 cycles.

Mounting adapter

See page 7-41. Type: LM2T AU120.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59").

Actuators latch onto the mounting adapter by simple rotation through a Ø22mm/Ø0.87" drilling also on the cover of LPZ control stations.

Contact elements

See page 7-41.

LM2T C10 (1NO) Type:

LM2T CF10 (1NO Faston)

LM2T C10A (1EM)

LM2T C01 (1NC)

LM2T CF01 (1NC Faston)

LM2T C01D (1LB)

Contact elements snap onto the mounting adapter. Up to 4 contacts can be fitted: 2 each on the left and right, one behind the other

Up to 2 contacts per actuator can be internally fitted on the cover surface of LPZ control stations, 1 on the left and right. For combination with more than 4 contacts, consult Technical support for advice; see contact details on inside front cover.

Type of positions

/ Maintained position.

Spring return position.

Key extraction position.

Rotation angles

2 position



Special versions

Versions with coloured keys are available upon request. Consult our Technical support; see contact details on inside front cover.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, RINA,

- Versions with different key codes.
- Complete with the numeric code of the key. The following versions are available: 501; 502; 503; 504; 505; 506; 507; 508; 509; 510. Example of complete code: 8 LM2T S320G505.
- Available only on specific request.

Illuminated button actuators, spring return



8 I M2T BI 10...



8 LM2T BL20...

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

Flush with side visibility (without mounting adapter). Spring return.

8 LM2T BL103	Green	10	0.033	
8 LM2T BL104	Red	10	0.033	
8 LM2T BL105	Yellow	10	0.033	
8 LM2T BL106	Blue	10	0.033	
8 LM2T BL107	Transparent	10	0.033	
Extended (without mounting adapter). Spring return.				
8 I M2T RI 203	Green	10	0.035	

Extended (without mounting adapter). Spring return.				
8 LM2T BL203	Green	10	0.035	
8 LM2T BL204	Red	10	0.035	
8 LM2T BL205	Yellow	10	0.035	
8 LM2T BL206	Blue	10	0.035	
8 LM2T BL207	Transparent	10	0.035	

Illuminated button actuators push-push



8 LM2T QL10...



8 LM2T QL20...

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

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

8 LM2T QL1030	Green	10	0.033
8 LM2T QL1040	Red	10	0.033
8 LM2T QL1050	Yellow	10	0.033
8 LM2T QL1060	Blue	10	0.033
8 LM2T QL1070	Transparent	10	0.033

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

8 LM2T QL203 0	Green	10	0.035
8 LM2T QL2040	Red	10	0.035
8 LM2T QL2050	Yellow	10	0.035
8 LM2T QL206 ⊙	Blue	10	0.035
8 LM2T QL207 ⊙	Transparent	10	0.035

Use contact elements EM (8LM2T C10A early make) and NC (8LM2T C01) only.

Contact elements NO (8LM2T C10) and LB (8LM2T C01D late break) cannot be used with these actuators. For the number of contact elements, refer to the right-hand column.

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+60°C
 Storage temperature: -40...+70°C
- Degree of protection:
- Per IEC/EN: IP65
- 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 and polycarbonate.

Mechanical endurance

Operating force: 0.8kg/1.7lb (actuator).

Mechanical life:

- Spring return buttons: 1,000,000 cycles
- Push-push buttons: 500,000 cycles.

Mounting adapter

See page 7-41

Type: LM2T AU120

Type:

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft).

Actuators latch onto the mounting adapter by simple rotation through a Ø22mm/Ø0.87" drilling also on the cover of LPZ control stations.

Contact elements for illuminated spring-return buttons See page 7-41.

LM2T C10 (1NO) LM2T CF10 (1NO Faston) LM2T C10A (EM) LM2T C01 (1NC) LM2T CF01 (1NC Faston) LM2T C01D (LB)

Contact elements snap onto the mounting adapter.
Up to 4 contacts can be fitted, 2 each on the left and right one behind the other, when one of the lamp-holders type LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or

LM2T M... is used (see page 7-42 or 43).
On the cover of LPZ control stations, up to 2 contacts per actuator can be internally fitted, 1 each on the right and/or left, when one of the lamp-holders type

LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... is used in the middle position.

Instead when using lamp-holder LM2T YL. .. or LM2T GL..., up to 2 contacts only can be fitted one behind the other (see

Contact elements for illuminated push-push buttons See page 7-41.

Type: LM2T C10A (EM)

LM2T C01 (1NC)

Contact elements snap onto the mounting adapter. Up to 2 contact elements can be fitted with one of the lampholders type LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... (see page 7-40 or 41).

On the cover of LPZ control stations, up to 2 contacts per actuator can be internally fitted, 1 each on the right and/or left, when one of the lamp-holders type

LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... is used in the middle position.

Only 1 contact can be fitted with lamp-golders LM2T YL..., LM2T GL... (see page 7-42).

Lamp-holder elements

See page 7-42 and 43.

Lamps

Maximum recommended power: 1.2W. See page 7-38.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, RINA, LROS, CCC



Illuminated mushroom head button actuators



8 LM2T BL614...



8 LM2T BL624...

Double touch actuators, spring return, white indicator



8 LM2T BL71...



8 LM2T BL72.

Order code	Colour	Quantity per pkg.	Wt
		n°	[kg]
SPRING RETURN Ø40mm/1.6" (wit	hout mounting adapter)		
8 LM2T BL6143	Green	10	0.043
8 LM2T BL6144	Red	10	0.043
8 LM2T BL6145	Yellow	10	0.043
8 LM2T BL6146	Blue	10	0.043
8 LM2T BL6148	White	10	0.043
LATCH, PULL TO RELEASE. Ø40mm/1.6" (without mounting adapter).			
8 LM2T BL6243	Green	2	0.105
8 LM2T BL6244	Red	2	0.105
8 LM2T BL6245	Yellow	2	0.105
8 LM2T BL6246	Blue	2	0.105
8 LM2T BL6248	White	2	0.105

Order code	Colour	Symbol	Quantity per pkg.	Wt
			n°	[kg]
Two flush pushbuttons (without mounting adapter). Both spring return.				
8 LM2T BL7112	Black/Red	none	5	0.044
0 I MOT DI 7440	O /D I		_	0.044

8 LM2T BL7112	Black/Red	none	5	0.044
8 LM2T BL7113	Green/Red	none	5	0.044
8 LM2T BL7114	White/Black	none	5	0.044
8 LM2T BL7122	Black/Red	I-0	5	0.044
8 LM2T BL7123	Green/Red	I-0	5	0.044
8 LM2T BL7124	White/Black	I-0	5	0.044
8 LM2T BL7133	Green/Red	Start/Stop	5	0.044
One extended and one flush pushbuttons (without				

8 LM2T BL7212	Black/Red	_	5	0.044
8 LM2T BL7213	Green/Red		5	0.044
8 LM2T BL7214	White/Black		5	0.044
8 LM2T BL7222	Black/Red	I-0	5	0.044
8 LM2T BL7223	Green/Red	I-0	5	0.044
8 LM2T BL7224	White/Black	I-0	5	0.044
8 LM2T BL7233	Green/Red	Start/Stop	5	0.044

mounting adapter). Both spring return.

Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Degree of protection:
- Per IEC/EN: IP65 for mushroom-head actuators; IP40 for double-touch actuators.
- Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K except for 8 LM2T BL71... and 8 LM2T BL72... which are Type 1.

Materials

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

Mechanical endurance

Operating force: 0.8kg/1.7lb (actuator). Mechanical life: 1,000,000 cycles.

Mounting adapter

See page 7-41 Type: LM2T AU120.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft).

Actuators latch onto the mounting adapter by simple rotation through a Ø22mm/Ø0.87" drilling also on the cover of LPZ

Contact elements

See page 7-41.

LM2T C10 (1NO) Type: LM2T CF10 (1NO Faston) LM2T C10A (1EM) LM2T C01 (1NC) LM2T CF01 (1NC Faston) LM2T C01D (1LB)

Contact elements snap onto the mounting adapter.

MUSHROOM-HEAD BUTTONS

Can be mounted on the mounting adapter:

- Up to 4 contacts, 2 each on the left and right, one behind the other, when one of the lamp-holders:
 LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... is used or
 2 contacts LM2T M... (see page 7-40 or 41).
 On the cover of LPZ control station, up to 2 contacts per
- actuator can be internally fitted, 1 each on the right and/or left, when one of the lamp-holders type LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... is used in the middle position.
- Up to 2 contacts, one over the other, when one of the lampholders type: LM2T YL... or LM2T GL... is used (see page 7-40).

DOUBLE-TOUCH BUTTONS

Up to 4 contacts can be fitted: 2 each on the left and right. Up to 2 contacts per actuator can be internally fitted on the cover of LPZ control stations, 1 each on the right and/or left when one of the lamp-holders type LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... is used in the middle position.

Lamp-holder elements

See page 7-42 and 43.

Maximum recommended power: 1.2W.

See page 7-38.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, RINA, LROS,

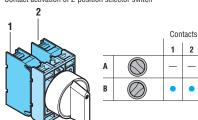
Illuminated selector switch actuators



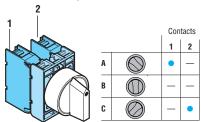
8 LM2T SL1

Order code	Colour	Type of positions	Qty per pkg	Wt
			n°	[kg]
2 position (withou	ut mounting ada	apter).		
8 LM2T SL1203	Green		10	0.025
8 LM2T SL1204	Red		10	0.025
8 LM2T SL1205	Yellow		10	0.025
8 LM2T SL1206	Blue		10	0.025
8 LM2T SL1208	White		10	0.025
8 LM2T SL1213	Green	ا	10	0.025
8 LM2T SL1214	Red		10	0.025
8 LM2T SL1215	Yellow		10	0.025
8 LM2T SL1216	Blue		10	0.025
8 LM2T SL1218	White		10	0.025
3 position (withou	ut mounting ada	apter).		
8 LM2T SL1303	Green		10	0.025
8 LM2T SL1304	Red		10	0.025
8 LM2T SL1305	Yellow		10	0.025
8 LM2T SL1306	Blue		10	0.025
8 LM2T SL1308	White		10	0.025
8 LM2T SL1313	Green	<15	10	0.025
8 LM2T SL1314	Red		10	0.025
8 LM2T SL1315	Yellow		10	0.025
8 LM2T SL1316	Blue		10	0.025
8 LM2T SL1318	White		10	0.025
8 LM2T SL1323	Green	<√	10	0.025
8 LM2T SL1324	Red		10	0.025
8 LM2T SL1325	Yellow		10	0.025
8 LM2T SL1326	Blue	\?	10	0.025
8 LM2T SL1328	White		10	0.025
8 LM2T SL1333	Green		10	0.025
8 LM2T SL1334	Red		10	0.025
8 LM2T SL1335	Yellow		10	0.025
8 LM2T SL1336	Blue		10	0.025
8 LM2T SL1338	White		10	0.025

Contact activation of 2-position selector switch



Contact activation of 3-position selector switch



Operational characteristics

- Any mounting position allowed Ambient conditions:
- Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C
- Degree of protection:
 - Per IEC/EN: IP65 IP40 for actuators.
 - 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 and polycarbonate.

Mechanical endurance

Operating force: 0.8kg/1.7lb (actuator). Mechanical life: 300,000 cycles.

Mounting adapter

See page 7-41.

Type: LM2T AU120.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft).

Actuators latch onto the mounting adapter by simple rotation through a Ø22mm/Ø0.87" drilling also on the cover of LPZ control stations

Contact elements

See page 7-41.

LM2T C10 (1NO) Type: LM2T CF10 (1NO Faston) LM2T C10A (1EM) LM2T C01 (1NC) LM2T CF01 (1NC Faston) LM2T C01D (1LB)

Contact elements snap onto the mounting adapter. The following contacts can be fitted on the mounting adapter on 2-position illuminated buttons:

- Up to 4 contacts when one of the lamp-holders type LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... is used (see page 7-40 or 41).
 On the cover of LPZ control station, up to 2 contacts per
- actuator can be internally fitted, 1 each on the right and/or left, when one of the lamp-holders type LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... is used in the middle position.
- Up to 2 contacts when one of the lamp-holders type LM2T YL... or LM2T GL... is used (see page 7-40).

The following contacts can be fitted on the mounting adapter on 3-position illuminated buttons:

- Up to 4 contacts when one of the lamp-holders type LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... is used (see page 7-40 or 41).
- On the cover of LPZ control station, up to 2 contacts per actuator can be internally fitted, 1 each on the right and/or left, when one of the lamp-holders type LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... is used in the middle position.

NOTE: No lamp-holder type LM2T YL... or LM2T GL... can be

Selector switch type of positions

Maintained position.

Spring return position.

Selector angles

2 position



Lamp-holder elements

See page 7-42 and 43.

Lamns

Maximum recommended power: 1.2W. See page 7-38.

Certifications and compliance

Certifications obtained: UL Listed for USA and Canada, (cULus - File E93601), as Auxiliary Devices; EAC, RINA, LROS, CCC.

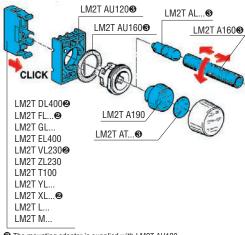
Pilot light heads



8 LM2T IL10...

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Without mountin	g adapter.		
8 LM2T IL103	Green	10	0.024
8 LM2T IL104	Red	10	0.024
8 LM2T IL105	Yellow	10	0.024
8 LM2T IL106	Blue	10	0.024
8 LM2T IL107	Transparent	10	0.024
8 LM2T IL1187	Transparent 4 0	10	0.024

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



- 2 The mounting adapter is supplied with LM2T AU120.
- 3 Can be purchased separately. Refer to page 7-38, 7-39 or 42.

• Operating temperature: -25...+60°C

- Any mounting position allowed Ambient conditions:

Operational characteristics

- Storage temperature: -40...+70°C
- Degree of protection:
 Per IEC/EN: IP65
- 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 and polycarbonate.

Mounting adapter See page 7-41.

Type: LM2T AU120.

Type: LM2T AU120.
The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft).
Pilot light heads latch onto the mounting adapter by simple rotation through a Ø22mm/Ø0.87" drilling also on the cover of LPZ control stations and exclusively with one of the following lamp-holders, internally mounted in the middle position:
LM2T DL400, LM2T EL400, LM2T ZL230, LM2T L... or LM2T M... for each light head.

Lamp-holder elements

See page 7-42 and 43.

Maximum recommended power: 1.2W. See page 7-38.

Certifications and compliance

Certifications obtained: RINA, LROS, EAC, CCC UL Listed for USA and Canada (cULus - File E93601), as Auxiliary Devices.

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

Potentiometer drives



8 LM2T P100 (with mounting adapter)



(with mounting adapter)

Order code	Characteristics	Qty per pkg	Wt
		n°	[kg]
Complete with m	ounting adapter.		
8 LM2T P100@	With graduated scale	10	0.070
8 LM2T P110 ⊕	With variable index	10	0.070

Potentiometer not included.

Operational characteristics

- Suitable for potentiometers with 6 and 6.3mm/0.24-0.25" diameter shaft and minimum 40mm/1.6" shaft length
- Ambient conditions:
 - Operating temperature: -25...+60°C
 - Storage temperature: -40...+70°C
- Any mounting position allowed
- Degree of protection: IP65 (warranted by potentiometers with a cylindrical shaft).

Materials

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

Mechanical endurance

Mechanical life: 300,000 cycles.

Mounting adapter

Standard supply with actuator.

The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft).

Operators will latch onto the mounting adapter with a simple twist; not suitable for LPZ control stations.

Certifications and compliance

Certifications obtained: EAC, CCC. Compliant with standards: IEC/EN 60947-1,

IEC/EN 60947-5-1.

Joysticks

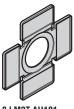


8 LM2T J... (without mechanical interlock)



(with mechanical interlock)

Accessories



8 LM2T AU101

Order code	Type of positions	N° auxiliary elements	Qty per pkg	Wt
		NO	n°	ſka

Without mechanical interlock. Complete with auxiliary contact.

Label Holder exci	uuou.			
8 LM2T J200	•	2	1	0.082
8 LM2T J201	+	2	1	0.082
8 LM2T J400		4	1	0.104
8 LM2T J401	+	4	1	0.104

With mechanical interlock in centre position.

Complete with au	XIIIary contact. La	abel lloluel e.	xciuue	J.
8 LM2T J210	•	2	1	0.082
8 LM2T J211	+	2	1	0.082
8 LM2T J410		4	1	0.104
8 LM2T J411	+	4	1	0.104

Order code	Description	Qty per pkg	Wt
		n°	[kg]
8 LM2T AU101	2-4 directional holder for adhesive legends	10	0.004

Operational characteristics

- Any mounting position allowed LM2T J2... types can be used with LPZ control stations Ambient conditions:
- - Operating temperature: -25...+60°C
 Storage temperature: -40...+70°C

- Degree of protection:
 Per IEC/EN: IP65
 Per UL: Type 1, 2, 3R, 4, 4X, 12, 12K
 IP20 for contact elements.

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 60947-5-1 designation: A300 Q300.

IEC/EN operational characteristics in AC15 category

ILU/L	1EO/EN operational characteristics in Ao 13 category.					
[V]	12	24	48	120	240	
[A]	6	6	6	6	3	
IEC/EN operational characteristics in DC13 category:						
[V]	12	24	48	125	250	
[A]	0.55	0.55	0.55	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/0.74lbft.

Mounting adapter and contact elements

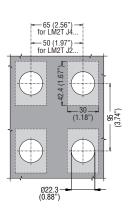
The joystick is standard supplied with the mounting adapter and contact elements.

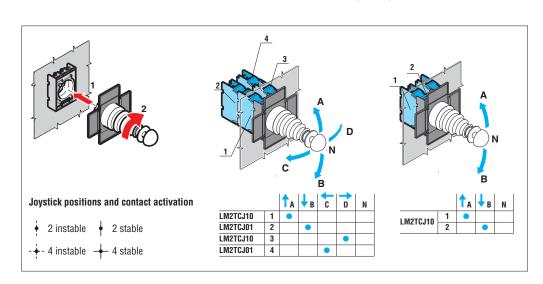
The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft). The joystick latches onto the mounting adapter by simple rotation.

Contact elements snap onto the mounting adapter. Two LM2T CJ... contacts are mounted on joystick LM2T J2... type and 4 LM2T CJ... contacts on LM2T J4... type. The mounting adapter and contact elements of LM2T J2... types can be internally mounted on LPZ control stations

Certifications and compliance

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





Order code

8 LM2T A12...•

8 LM Ø22mm metal series



Accessories and spare parts









	adabid toddii battoiid		
8 LM2T A130	Threaded plug for unused drilled holes (black)	10	0.007
8 LM2T A140	Action plug for centre contact	50	0.001
8 LM2T A150	Rod for mechanical reset button (I=140mm/5.5")	10	0.006
8 LM2T A160	BA9s bulb extractor	10	0.004
8 LM2T A161	Hole size adapter set for Ø30mm/1.2" to 22mm/0.87" (2 per hole)	10	0.002
8 LM2T A170	Spare key set for selector or mushroom head button	1	0.008
8 LM2T A170G❷	Spare key set for G series selector or mushroom-head button	1	0.008
8 LM2T A185	Selector switch protection shroud for short lever	10	0.004
8 LM2T A190	Diffuser for pilot light	10	0.003
8 LM2T ALA024	Filament bulb BA9s 24VAC/DC - 1.2W	100	0.002
8 LM2T ALB024	Filament bulb BA9s 24VAC/DC - 2W	100	0.003
8 LM2T ALB048	Filament bulb BA9s 48VAC/DC - 2W	100	0.003
8 LM2T ALB130	Filament bulb BA9s 130VAC/DC - 2W	100	0.003
8 LM2T ALL006❸	LED bulb BA9s 6VAC/DC	10	0.003
8 LM2T ALL024®	LED bulb BA9s 24VAC/DC	10	0.003
8 LM2T ALL048ூ	LED bulb BA9s 48VAC/DC	10	0.003
8 LM2T ALN130@	Neon bulb 6 BA9s	100	0.003

Description

Coloured diffuser for

double touch buttons

Qty per | Wt pkg n°

10

[kg

0.001

BA9s 220...250VAC • Complete the order code by adding the digit of the selected colour: 3 (green); 4 (red); 5 (yellow); 6 (blue); 7 (transparent); 8 (white).

110...125VAC

Neon bulb **6**

Neon bulb 6

Neon bulb **6**

BA9s 220...250VAC

BA9s 110...125VAC

100

100

100

0.003

0.003

0.003

- Support (Vertices) a (Vertices), a (Vertices), a (Vertices), a (Vertices) as with different key code. Complete with the numeric code of the key. The following versions are available: 501; 502; 503; 504; 505; 506; 507; 508; 509; 510. Example of complete code: 8 LM2T A170G505. Coloured key versions are available on request; consult Technical support;
- see contact details on inside front cover.

 Add the digit of the selected colour: 3 (green); 4 (red); 5 (yellow). It is advisable to use the same colour of bulb as of the actuator to obtain
- adequate light emission.

 Neon bulbs emit an amber light and may not be suitable for use with green or blue pilot lights and illuminated actuators.

 Glass with diffuser lens.
- 6 Plastic neon bulb.

8 LM2T ALN250@

8 LM2T ALP130⊕

8 LM2T ALP250⊕

Accessories and spare parts



8 LM2T AT...



8 LM2T AU100





8 LM2T AU108 8 LM2T AU106



8 LM2T AU170



8 LM2T AU159



LPX DIN

Order code	Description	Qty per pkg.	Wt
		n°	[kg]
8 LM2T AT ⊕	Printed label to be inserted in pilot lights and illuminated pushbuttons	50	0.001
8 LM2T AU100@	Legend holder	50	0.001
8 LM2T AU105❷	Legend holder (for 8 LM2T AU106 paper or 8 LM2T AU108 plastic labels)	50	0.003
8 LM2T AU106	Blank paper label for writing (for LM2T AU105)	50	0.002
8 LM2T AU107	Transparent protection for LM2T AU106 label	50	0.001
8 LM2T AU108	Blank plastic label for engraving (for LM2T AU105)	50	0.002
8 LM2T AU13⊕	IP66 boot for pushbuttons LM2T B1/R1	10	0.006
8 LM2T AU14⊕	IP66 boot for pushbuttons LM2T B2/B3//BL2/R2	10	0.009
8 LM2T AU157	IP66 boot for double and triple buttons (transparent)	10	0.007
8 LM2T AU159	Shroud for buttons 8 LM2T B62/63/65/66, 8 LM2T BL62	10	0.010
LPX DIN	Adapter for mounting 8 LM2T buttons on DIN rail 35mm/1.38" wide (2 modules)	10	0.008
8 LM2T AU167	IP66 protective boot for mushroom head buttons LM2T B62/B63 (transparent)	10	0.012
8 LM2T AU170	Actuator gasket	10	0.006

- Available only on specific request, consult Technical support; see contact details on inside front cover.
 To preserve actuators degree of protection (IP65) place their gasket between legend holder and mounting surface.
 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).

8 LM Ø22mm metal series



Labels with text for LM2T AU100 legend holder



8 LM2T AGB230

Order code	Text	Qty per pkg	Wt
		n°	[kg]
General use.			
8 LM2T AU206	Blank for writing	50	0.001
8 LM2T AU207	Sheet with 108 labels for laser printing •	10	0.005
8 LM2T AU208 ⊚	Sheet with 108 laser-printed labels●	10	0.005
8 LM2T AGB210	LATCH	50	0.001
8 LM2T AGB211	OPEN	50	0.001
8 LM2T AGB212	STOP STOP	50	0.001
8 LM2T AGB213	GENERAL STOP	50	0.001
8 LM2T AGB214	STOP RESET	50	0.001
8 LM2T AGB215	FORWARD	50	0.001
8 LM2T AGB216	CLOSE	50	0.001
8 LM2T AGB217	RIGHT	50	0.001
8 LM2T AGB218	LOWER	50	0.001
8 LM2T AGB219	OFF	50	0.001
8 LM2T AGB220	EMERGENCY	50	0.001
8 LM2T AGB221	OFF	50	0.001
8 LM2T AGB222	REVERSE	50	0.001
8 LM2T AGB223	ON	50	0.001
8 LM2T AGB237	THERMAL TRIP	50	0.001
8 LM2T AGB224	SLOW	50	0.001
8 LM2T AGB225	RUNNING	50	0.001
8 LM2T AGB226	RESET	50	0.001
8 LM2T AGB227	RAISE	50	0.001
8 LM2T AGB228	LEFT	50	0.001
8 LM2T AGB229	POWER ON	50	0.001
8 LM2T AGB225	START	50	0.001
8 LM2T AGB230	STOP STOP	50	0.001
8 LM2T AGB214	STOP-RESET	50	0.001
8 LM2T AI231	FAST	50	0.001
For selector switch	nes.		
8 LM2T AI232	STOP-START	50	0.001
8 LM2T AI233	AUTO-MAN	50	0.001
8 LM2T AI234	AUTO-O-MAN	50	0.001
8 LM2T AI242	MAN-0-AUTO	50	0.001
8 LM2T AI235	FWD-0-REV	50	0.001
8 LM2T AI236	ON - OFF	50	0.001
8 LM2T AI241	MAN-AUTO	50	0.001
8 LM2T AGB232	STOP-START	50	0.001
	OFF-ON	50	0.001
International labels			
8 LM2T AU200	0	50	0.001
8 LM2T AU201	1	50	0.001
8 LM2T AU202	II	50	0.001
	for selector switches.		
8 LM2T AU203	0-1	50	0.001
8 LM2T AU204	1-11	50	0.001

General characteristics

The labels have indelible scratch-proof black lettering on metalised grey polycarbonate background (adhesive).

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

Plastic disk for mushroom head pushbuttons



Ordering code	Text	Qty per pkg	Wt
		n°	[kg]
Ø90mm/3.5".			
8 LM2T AU112	EMERGENCY STOP	10	0.005
8 LM2T AU113	EMERGENCY STOP	10	0.005
8 LPX AU124	IEC60417-5630 symbol according to ISO 13850	10	0.005
Ø60mm/2.4".			
8 LM2T AU114	EMERGENCY STOP	10	0.003
8 LM2T AU115	EMERGENCY STOP	10	0.003
8 LM2T AU118	ARRET D'URGENCE / NOT-AUS / PARO EMERGENCIA	10	0.003
8 LPX AU123	IEC60417-5630 symbol according to ISO 13850	10	0,005

50

0.001

General characteristics

The disks are made of non-adhesive plastic. It is not possible use plastic disks with protection 8 LM2T AU159.

Special versions
The disk text in different languages is available.
Consult Technical support; see contact details on inside front

Dimensions 7-40 page 7-52

8 LM2T AU205

1-0-11

<sup>Recommended use with LM2T AU206 blank label.
Sheet with 108 adhesive labels.
Complete code with label text required.</sup>

Order code

Mounting adapter

8 LM Ø22mm metal series



8 LM2T AU120

		per pkg	
		n°	[kg]
Only for metal series	s LM2T actuators.		
8 LM2T AU120	Mounting adapter	10	0.019

Description

Qty Wt

Contact elements





8 LM2T C...

	2
	overko) ioricie
	321
76	

8 LM2T E..



8 LM2T CF01



8 LM2T CF10

Order code	Function	n	Qty per pkg	Wt
			n°	[kg]
Screw termination. Without mounting a	dapter			
8 LM2T C10 ⊙	.4	NO o	10	0.011
8 LM2T C10A	\ \langle .7 \\ \langle .8 \	EM❷	10	0.011
8 LM2T C01 →	:1 	NC ⊗	10	0.011

Screw termination. With mounting adapter.

8 LM2T C01D®

8 LM2T E10 ⊙	1.3	NO o	10	0.029
8 LM2T E01 ⊖	.1 ⊖	NC ®	10	0.029

LB**0**

10

0.011

Faston termination

Without mounting adapter

•				
8 LM2T CF100	.3	NO ①	10	0.012
	1.4			
8 LM2T CF01 ⊖	7. 1 7.⊖ 1.2	NC ⊚	10	0.012

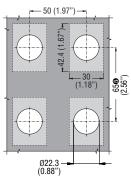
- Use LM2T C10A (EM) or LM2T C01 (NC) type only with push-push actuators. Not suitable for push-push actuators.

 Normally open contact with early make operation.

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

- Mormally closed contact with late break operation.

Drillings - Minimum recommended distances



Using contacts with Faston elements, the minimum vertical pitch is 90mm/3.54".

Operational characteristics

- Any mounting position allowed
 The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft) also internally on LPZ control stations covers
 Contact elements snap onto the adapter
- Maximum tightening torque for screw terminals: 1Nm
- Ambient conditions:
 - Operating temperature: -25...+60°C
 - Storage temperature: -40...+70°C
- Degree of protection:
 - \bullet IP20 for contacts elements with screw termination
- IP00 for contact elements with Faston termination.

General characteristics of contact elements

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

Conductivity: 5V 10mA.

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

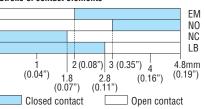
							0 ,		
[V]	12	24	48	120 2	40 40	0 480	500	600	
[A]	6	6	6	6	3 1.9	9 1.5	1.4	1.2	
IEC/EN operational characteristics in DC13 category:									
[V]	12	24	48	3 12	25 25	0 440	500	600	
[A]	3	3	1.	5 0.	55 0.2	7 0.15	0.13	0.1	

Short-circuit protection fuse: max. calibre 10A gG/SC Contact resistance: ≤20mΩ

Terminals: Clamp screw with washer

Faston 1-6.35mm/0.25" or 2-2.8mm/0.11".

Stroke of contact elements



Maximum conductor cross section for screw terminals 1 or 2 2.5mm2 or AWG12 cables.

Mechanical and electric endurance

Operating force:	: 0.5kg / 1.1lb	(contact elements).
Electrical life:	LM2T C10	1,000,000 cycles (
	LM2T CF10	1,000,000 cycles
	LM2T C01	1,000,000 cycles
	LM2T CF01	1,000,000 cycles
	LM2T C10A	600,000 cycles
	LM2T C01D	600.000 cycles.

Certifications and compliance

Certifications obtained: RINA, LROS, EAC, CCC, UL Listed, for USA and Canada (cULus - File E93601), as Auxiliary Devices.

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

8 LM Ø22mm metal series



Lamp-holder elements without mounting adapter



8 LM2T EL400 8 LM2T ZL230



8 LM2T YL... 8 LM2T GL...

Lamp-holder elements with mounting adapter



8 LM2T DL400

Test element for lamp-holders without mounting adapter



8 LM2T T100

Order code	Rated supply voltage	Type of bulb supplied	Qty per pkg	Wt
	[V] 50/60Hz		n°	[kg]
Direct supply.				
8 LM2T EL400 ⊙	≤415VAC/DC	No	10	0.011
With resistor and d	iode.			
8 LM2T ZL230⊕	230VAC	Yes 130V (2W)	10	0.015
With transformer®			•	
8 LM2T YL110❷	110120VAC	Yes 24V (1.2W)	1	0.086
8 LM2T YL230❷	220240VAC	Yes 24V (1.2W)	1	0.084
8 LM2T YL400❷	380415VAC	Yes 24V (1.2W)	1	0.087
Flashing 8.				
8 LM2T GL048@@	2448VAC	No	1	0.027
8 LM2T GL230@@	110230VAC	No	1	0.027

Rated supply voltage	Type of bulb supplied	Qty per pkg.	Wt
[V] 50/60Hz		n°	[kg]
≤415VAC/DC	No	10	0.029
	supply voltage [V] 50/60Hz	supply bulb supplied	supply bulb per voltage supplied pkg. [V] 50/60Hz n°

Order code	Description	Qty per pkg.	Wt
		n°	[kg]
Test element for lar	np-holders.		
8 LM2T T100	Test element 666	10	0.011

- Filament bulb, BA9s U≤130VAC/DC max 2.6W (not supplied); maximum dimensions 11x28 mm.
- For higher voltages, use neon bulbs. Not suitable for 3-position selectors.
- Filament bulb, BA9s (not supplied); maximum dimensions 11x28mm/0.4x1.1".

Use bulbs with rated voltage equal to that of the power supply.

Suitable for AC duty only.

E.g.: With 8 LMZT FL230, use 110VAC bulbs if power supply is 110VAC and 230VAC bulbs if power supply 230VAC. 2.6W max bulb rating.

MultiLED bulbs must not be fitted.

In case of test circuits for lamp-holders having load in parallel, two

- LM2T T100 elements are required for each bulb.

 Refer to the wiring diagram attached to the product or consult Technical
- support; see contact details on inside front cover. In case of neon bulbs, consult Technical support; see contact details on inside front cover.
- Only use with lamp-holder elements:
- Not suitable for use with test element.
- With direct supply
 With resistor and diode

Operational characteristics

- Operating supply voltage limits for all types: -15...+10% Ue

- Any mounting position allowed
 The adapter is fixed to the mounting surface by means of incorporated screws (Tmax = 0.8Nm/0.59lbft) also internally on LPZ control stations covers
- Lamp-holder elements snap onto the adapter Only lamp-holder elements LM2T DL400, LM2T EL400, LM2T T100 and LM2T ZL230 can be used with LPZ control stations
- Maximum tightening torque: 1Nm/1.57lbft
- Ambient conditions:
 - Operating temperature: -25...+60°C
- Storage temperature: -40...+70°C Degree of protection: IP20.

Mounting adapter

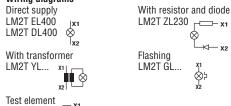
See page 7-41

Type: LM2T AU120 for LM2T EL400, LM2T ZL230, LM2T YL..., LM2T GL... and/or LM2T T100.

Maximum conductor cross section

1 or 2 2.5mm2 or AWG 12 cables.

Wiring diagrams





Certifications and compliance Certifications obtained: RINA, LROS, GOST, CCC, UL Listed for USA and Canada (cULus - File E93601), as Auxiliary Devices.

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

LED elements steady light



8 LM2T L...

Order code	Supply voltage	colour	Qty per pkg.	VVt
	[V]		n°	[kg]
Screw terminat	ion.			

Supplied without mounting adapter.				
8 LM2T LB30	1230VAC/DC	Green	10	0.016
8 LM2T LB40		Red	10	0.016
8 LM2T LB50		Yellow	10	0.016
8 LM2T LB60		Blue	10	0.016
8 LM2T LB80		White	10	0.016
8 LM2T LE3	85140VAC	Green	10	0.016
8 LM2T LE4		Red	10	0.016
8 LM2T LE5		Yellow	10	0.016
8 LM2T LE6		Blue	10	0.016
8 LM2T LE8		White	10	0.016
8 LM2T LM3	185265VAC	Green	10	0.016
8 LM2T LM4		Red	10	0.016
8 LM2T LM5		Yellow	10	0.016
8 LM2T LM6		Blue	10	0.016
8 LM2T LM8		White	10	0.016

• Only LM2T LB... type is suitable for use with LM2T T100 test element.

LED elements flashing light



8 LM2T M...

Order code	Supply voltage	LED colour	Qty per pkg.	Wt
	[V]		n°	[kg]

Screw termination.

Supplied without mounting adapter.

8 LM2T MB3❷	1830VAC/DC	Green	10	0.016
8 LM2T MB4@		Red	10	0.016
8 LM2T MB5❷		Yellow	10	0.016
8 LM2T MB6❷		Blue	10	0.016
8 LM2T MB8❷		White	10	0.016
8 LM2T ME3	85140VAC	Green	10	0.016
8 LM2T ME4		Red	10	0.016
8 LM2T ME5		Yellow	10	0.016
8 LM2T ME6		Blue	10	0.016
8 LM2T ME8		White	10	0.016
8 LM2T MM3	185265VAC	Green	10	0.016
8 LM2T MM4		Red	10	0.016
8 LM2T MM5		Yellow	10	0.016
8 LM2T MM6		Blue	10	0.016
8 LM2T MM8		White	10	0.016
_				

2 Only LM2T MB... type is suitable for use with LM2T T100 test element.

Operational characteristics

- Rated frequency: 50-60Hz Supply voltage:

- Steady light: 12...30VAC/DC; 85...140VAC; 185...265VAC
 Flashing light: 18...30VAC/DC; 85...140VAC, 185...265VAC
- Maximum consumption:
 - Steady and flashing light: 17mA-0.50W (12...30VAC/DC); 20mA-0.40W (85...140VAC); 18mA-0.55W (185...265VAC)
- Protection:
 - · Against overvoltages
 - Against stray currents in wiring
 - To reduce flickering phenomenon
 - To withstand vibrations
- Minimum activation voltage:
 Steady light: 4V-1mA (12...30VAC/DC); 30V-4mA (85...140VAC); 55V-4mA (185...265VAC)
 Flashing light: 5V-1.5mA (18...30VAC/DC);
 - 13V-1.5mA (85...140VAC); 25V-1.5mA (185...265VAC)
- Electrical life: 100,000 hours
- Snap onto 8 LM2T AU120 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
- Ambient conditions:
- Operating temperature: -25...+60°C
- Storage temperature: -40...+85°C
- Degree of protection: IP20.

Mounting adapterSee page 7-41. Type: LM2T AU120.
The adapter is fixed on the mounting surface by means of incorporated screws (Tmax=0,8Nm/0.59lbft).

Maximum conductor cross section

1 or 2 2.5mm² or AWG12 cables.

Wiring diagram



Certifications and compliance

Certifications obtained: EAC, CCC, UL Listed for USA and Canada (cULus - File E93601), as Auxiliary Devices. Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-5-1, UL508, CSA C22.2 n° 14-95.

Metal control stations and enclosures LPZ M



Enclosures with cut-outs for Ø22mm units





LPZ M1 A5







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

				L 01
With holes.				
LPZ M1 A5	For 1 actuator	Yellow	1	0.343
LPZ M1 A5P	For 1 actuator with shroud	Yellow	1	0.382
LPZ M1 A8	For 1 actuator	Grey	1	0.349
LPZ M2 A5	For 2 actuators	Yellow	1	0.456
LPZ M2 A8	For 2 actuators	Grey	1	0.458
LPZ M3 A8	For 3 actuators	Grey	1	0.603
LPZ M4 A8	For 4 actuators	Grey	1	0.581
LPZ M5 A8	For 5 actuators	Grey	1	0.680
LPZ M6 A8	For 6 actuators	Grey	1	0.671
With multiholes.				

With multiholes				
LPZ M4C A8	For 4 actuators	Grey	1	0.570
LPZ M6C A8	For 6 actuators	Grey	1	0.660
LPZ M8C A8	For 8 actuators	Grey	1	1.060
LPZ M12C A8	For 12 actuators	Grey	1	1.360
LPZ M16C A8	For 16 actuators	Grev	1	1.650





LPZ M2 A8





LPZ M3 A8

LPZ M4 A8

LPZ M5 A8

LPZ M6 A8



LPZ M4C A8 LPZ M6C A8





LPZ M8C A8

LPZ M12C A8



LPZ M16C A8

General characteristics

Control stations made of aluminium alloy suitable for pushbuttons, selector switches and pilot lights Platinum and 8LM series. Maximum 3 contacts for operator (with mounting adapter) mounted on the cover.

Operational characteristics

- Cable entry ●: Ø21mm (for M20 or PG13.5 cable gland)
- Degree of protection:
 IEC/EN: IP66 and IP67
 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 for LPZM1A5...LPZM6A8 codes (series with holes).

Certifications pending: cULus for multiholes LPZM...C type. Compliant with standards: IEC/EN 60947-5-1.

1 Not available for multiholes LPZM...C type.

Order codes	Dimensions (X, Y, Z) [mm (in)]	n° of rows vertical	n° of rows
LPZ M1 A5/A8	80x80x73 (3.15x3.15x2.87")	1	1
LPZ M1 A5P	80x80x108 (3.15x3.15x4.25")	1	1
LPZ M2 A5/A8	80x130x73 (3.15x5.12x2.87")	1	2
LPZ M3 A8	80x170x73 (3.15x6.69x2.87")	1	3
LPZ M4 A8	80x170x73 (3.15x6.69x2.87")	1	4
LPZ M5 A8	80x230x73 (3.15x9.05x2.87")	1	5
LPZ M6 A8	80x230x73 (3.15x9.05x2.87")	1	6
LPZ M4C A8	80x170x73 (3.15x6.69x2.87")	2	2
LPZ M6C A8	80x230x73 (3.15x9.05x2.87")	2	3
LPZ M8C A8	160x160x90 (6.30x6.30x3.54")	4	2
LPZ M12C A8	170x190x90 (6.69x7.48x3.54")	4	3
LPZ M16C A8	190x250x90 (7.48x9.84x3.54")	4	4

Metal control stations and enclosures LPZ M



Enclosures









LPZ M1 E5



Order code	Dimensions (X, Y, Z)	Cover	Qty per pkg.	Wt.
	[mm]		n°	[kg]
LPZ M1 E5	80x80x73 (3.15x3.15x2.87")	Yellow	1	0.346
LPZ M1 E8	80x80x73 (3.15x3.15x2.87")	Grey	1	0.352
LPZ M2 E8	80x130x73 (3.15x5.12x2.87")	Grey	1	0.462
LPZ M3 E8	80x170x73 (3.15x6.69x2.87")	Grey	1	0.600
LPZ M4 E8	80x230x73 (3.15x9.05x2.87")	Grey	1	0.680
LPZ M5 E8	160x160x90 (6.30x6.30x3.54")	Grey	1	1.100
LPZ M6 E8	170x190x90 (6.69x7.48x3.54")	Grey	1	1.400
LPZ M7 E8	190x250x90 (7.48x9.84x3.54")	Grey	1	1.700

LPZ M5 E8 LPZ M6 E8



LPZ M7 E8

General characteristics

Enclosures made of aluminium alloy suitable for pushbuttons, selector switches and pilot lights Platinum and 8LM series. The enclosures are supplied without any holes on the cover and on the base (no cable entry). Maximum 3 contacts for operator (with mounting adapter) mounted on the cover.

Operational characteristics

- Degree of protection:
 IEC/EN: IP66 and IP67
- 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 60947-5-1.

Order code	Max. operator number	n° of rows vertical	n° of rows horizontal
LPZ M1 E5/E8	1	1	1
LPZ M2 E8	2	1	2
LPZ M3 E8	4	1	3
LPZ M4 E8	6	1	5
LPZ M5 E8	8	4	2
LPZ M6 E8	12	4	3
LPZ M7 E8	16	4	4

8 LM Ø22mm metal series



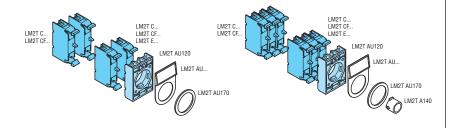
COMBINATIONS FOR METAL SERIES PUSHBUTTONS AND SELECTOR SWITCHES







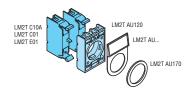




PUSH-PUSH BUTTONS







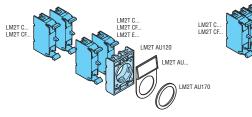
NORMAL STOPPING MUSHROOM-HEAD BUTTONS

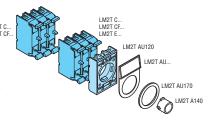








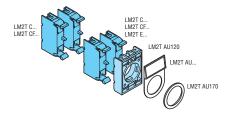




MUSHROOM-HEAD LATCH BUTTONS



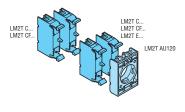




DOUBLE-TOUCH BUTTONS

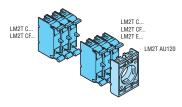






TRIPLE-TOUCH BUTTONS





SELECTOR SWITCHES

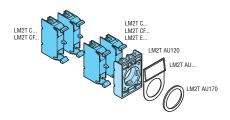


LM2T S1...



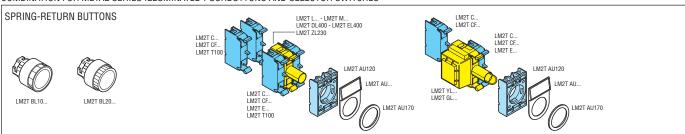


LM2T S3..



Pushbuttons and selector switches

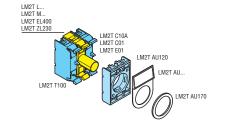
COMBINATION FOR METAL SERIES ILLUMINATED PUSHBUTTONS AND SELECTOR SWITCHES

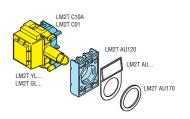






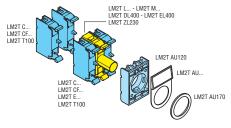


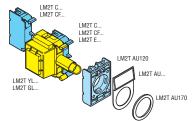




MUSHROOM-HEAD SPRING-RETURN BUTTON

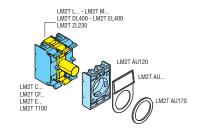


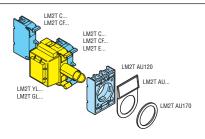




MUSHROOM-HEAD LATCH BUTTON



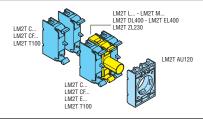




DOUBLE-TOUCH BUTTONS



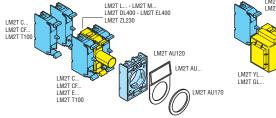


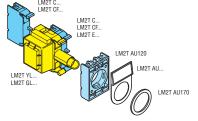


2-POSITION SELECTOR SWITCHES



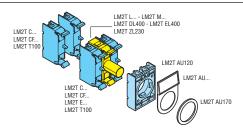






3-POSITION SELECTOR SWITCHES





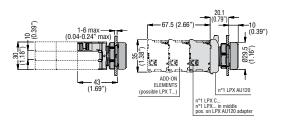
7-47

PLatinum series dimensions [mm (in)]

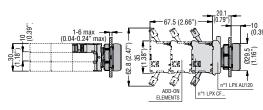


PLATINUM SERIES PUSHBUTTONS AND SELECTOR SWITCHES

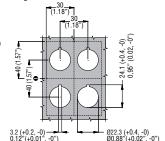
Flush pushbutton with screw terminal contact or LED or test elements



Flush pushbutton with Faston contact elements



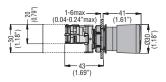
Drillings - Minimum recommended distances

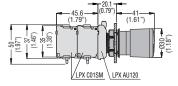


• When Faston contacts are used, the vertical pitch must be 85mm minimum.

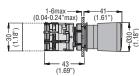
Mushroom-head pushbutton with auto-monitor contacts

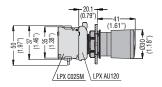
LPX C01SM



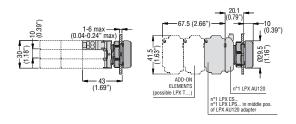


LPX CO2SM

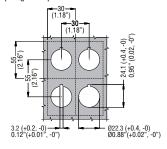




Flush pushbutton with test element and spring-clamp terminal contact or LED elements LPX CS... - LPX LPS...



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



Spring-return and push-push buttons

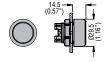


Flush
LPC B1...
Illuminated flush
LPC BL1...
LPX B0@

Push-push
LPC Q1...
LPX Q0@
Illuminated push-push
LPC QL1...



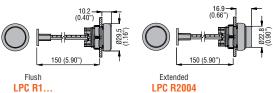
Extended Push-push LPC 02...
Illuminated extended Illuminated push-push LPC BL2...
LPC QL2...
LPX QL0@



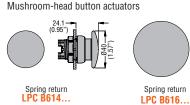
Shrouded LPC B30.... LPX B3@

② Complete with cap or lens.

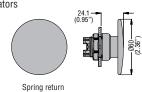
Mechanical buttons



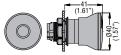




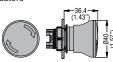




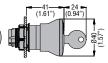
Mushroom-head latch button actuators







(1.57")



(1.61)





Push-pull LPC B674...

Turn to release LPC B634...

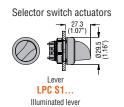
Turn key to release

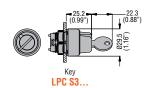
Turn to release LPC B6634

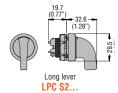
Turn to release LPC B6644 Illuminated turn to release LPC BL664...

PLatinum series dimensions [mm (in)]











Flush double-touch buttons with or without light indicator

LPC SL1..



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



LPC BL72...

LPC B73..

Triple-touch button with

middle extended button

Drillings - Minimum recommended distances --30---(1.18") (+0.4, -(0.02, Ø22.3 (+0.4, -0) Ø0.88"(+0.02", -0")

Pilot light head

LPC BL71...

LED-integrated monoblock pilot lights

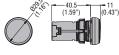
Monoblock buzzers

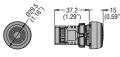
Monoblock potentiometer

Communication interfaces LPC D...

















LPL.

LPM.

LPC ZS.. Label

LPC PA..

Threaded plug for unused drilled holes

Knob selector switch protection





Label holder

Label holder



Plastick disk for mushroom-head pushbuttons

LPX AU114

LPX A130

LM2T AU185

LPX AU100

LPX AU109 LM2T A...2...

LPX AU105

LPX AU108

LPX AU112 LPX AU113

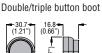
LPX AU115 LPX AU118 Cable gland

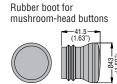
Rubber boot for flush buttons











Padlockable protection for mushroom-head latch buttons

LPX AU158

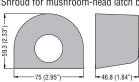




LPX AU13...

LPX AU14...

Shroud for mushroom-head latch buttons



LPX AU157 DIN rail adapter



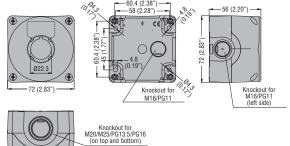


LPX AU167

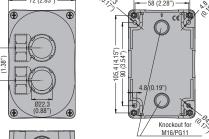
LPX AU159

CONTROL STATIONS WITHOUT ACTUATORS

LPZ P1 A5... LPZ P1 A8...









Knockout for M20/PG13.5 (one/side)

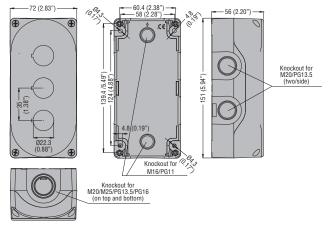
7-49

PLatinum series dimensions [mm (in)]

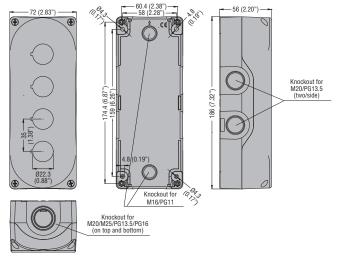


CONTROL STATIONS WITHOUT ACTUATORS

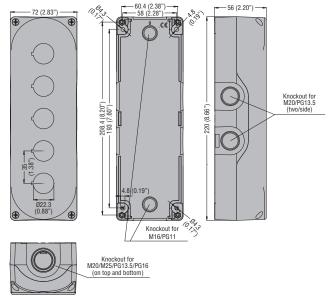
LPZ P3 A8



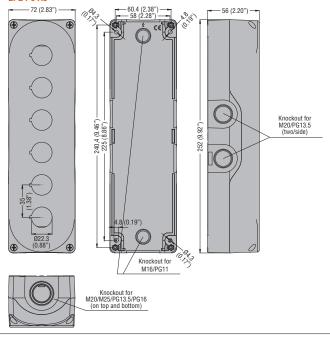
LPZ P4 A8



LPZ P5 A8

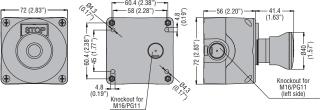


LPZ P6 A8

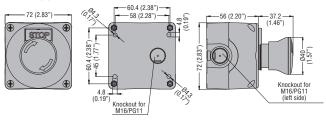


CONTROL STATIONS WITH ONE ACTUATOR

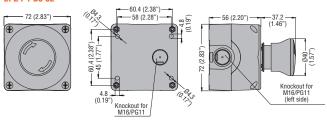
LPZ P1 B8 01



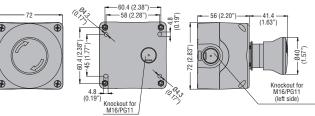
LPZ P1 B8 02



LPZ P1 B5 02



LPZ P1 B5 03



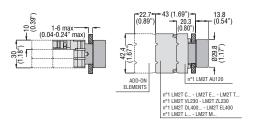
Top view for LPZ P1...



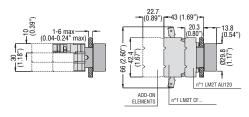
8 LM Ø22mm metal series dimensions [mm (in)]

METAL PUSHBUTTONS AND SELECTOR SWITCHES 8 LM SERIES

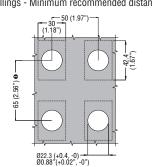
Flush pushbutton with contact or lamp-holder elements (direct or resistor-diode type) or test element



Flush pushbutton with Faston contact elements



Drillings - Minimum recommended distances



1 When Faston contacts are used, the vertical pitch must be 90mm minimum.

Pushbutton actuators



Flush LM2T B1. Push-push



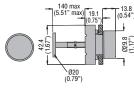
LM2T B2... Push-push LM2T Q2.. Illuminated extended LM2T BL2. Illuminated push-push LM2T QL2...

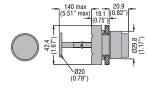
Extended



Shrouded LM2T B30. Illuminated flush LM2T BL1... Illuminated push-push LM2T QL1...

Reset buttons (complete unit)

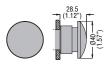




LM2T R1...

LM2T R2004

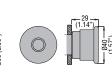
Mushroom-head button actuators



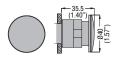
Spring return LM2T B614.. Illuminated spring return LM2T BL614.



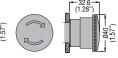
Spring return LM2T B616...



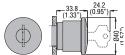
Push-pull LM2T B624



Illuminated push-pull LM2T BL624..



Turn to release LM2T B634...



Turn key to release LM2T B654...



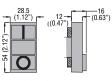
Turn to release **LM2T B6644**

Double-touch actuators with or without indicator 2 flush buttons



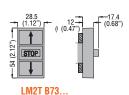
LM2T B71... LM2T BL71...

Double-touch actuators with or without indicator 1 flush and 1 extended button

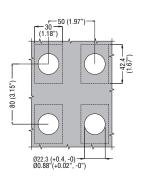


I M2T R72 LM2T BL72...

Triple-touch actuators with middle extended button

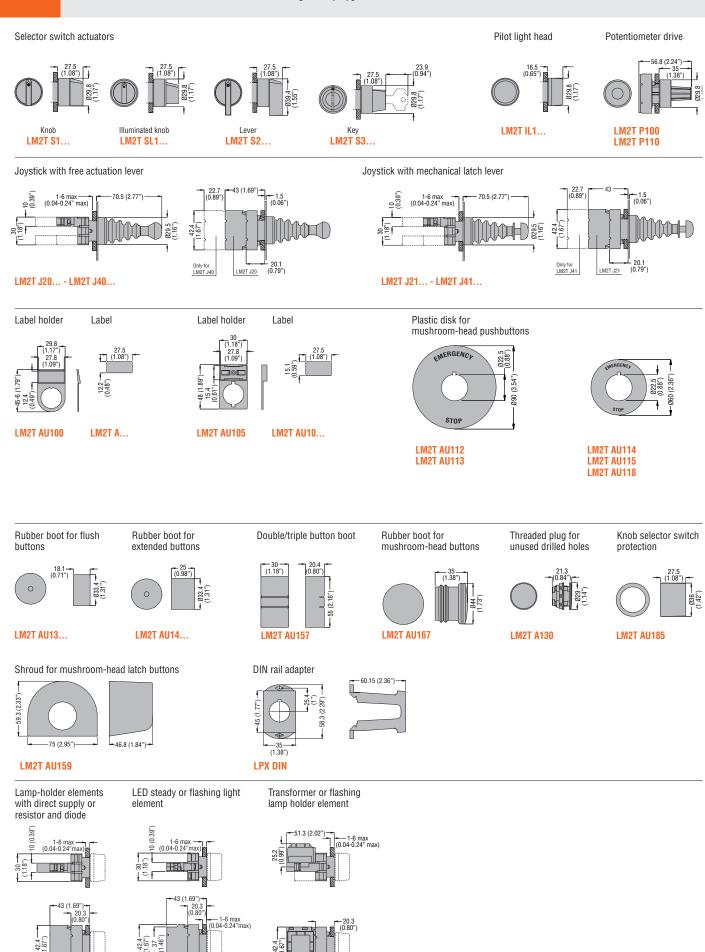


Drillings - Minimum recommended distances



8 LM Ø22mm metal series dimensions [mm (in)]





LM2T YL... - LM2T GL...

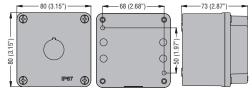
LM2T L... - LM2T M...

Dimensions metal control stations [mm (in)]



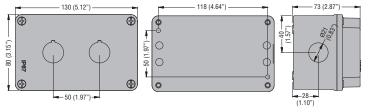




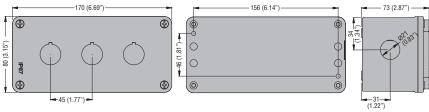


LPZ M1 A5P 108 (4.25") - 68 (2.68") -50 (1.97") - 80 (3.15") ф ф

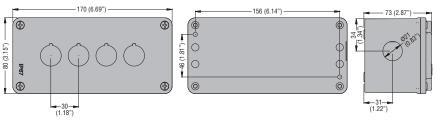
LPZ M2 A...



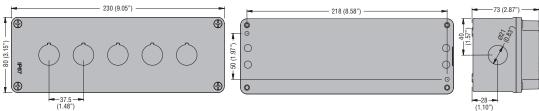
LPZ M3 A8



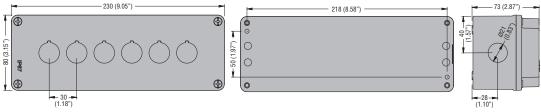
LPZ M4 A8



LPZ M5 A8



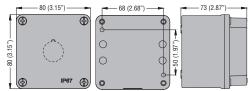
LPZ M6 A8

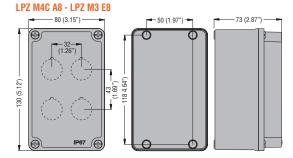


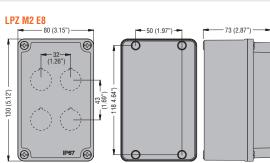
Dimensions metal control stations [mm (in)]







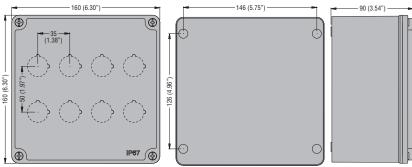




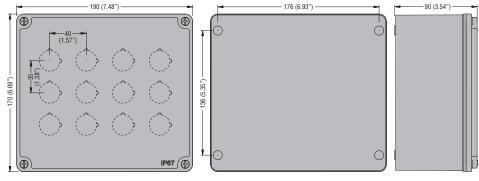
LPZ M6C A8 - LPZ M4 E8



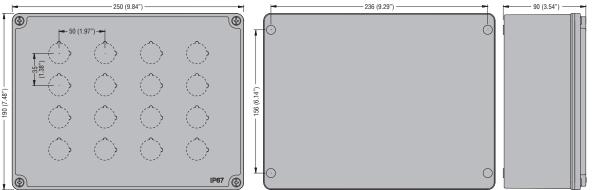
LPZ M8C A8 - LPZ M5 E8



LPZ M12C A8 - LPZ M6 E8



LPZ M16C A8 - LPZ M7 E8





Wiring diagrams

