

Mechanical reset buttons, complete unit, spring return



LPC R1196

Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (5.2mm/0.2" stroke). Adjustable length 0-150mm/5.9". Complete with shaft (without mounting adapter). Spring return.			
LPC R1002	Black	10	0.038
LPC R1003	Green	10	0.038
LPC R1004	Red	10	0.038
LPC R1006	Blue	10	0.038
LPC R1196	Blue (RESET)	10	0.038

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

LPC R2004	Red	1	0.040
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① With "RESET" caption on actuator.
N.B. Not suitable for LPZ control stations.

Pushbutton actuators, spring return, with symbol



LPC B11...



LPC B21...

Order code	Symbol	Colour	Qty per pkg	Wt
			n°	[kg]
Flush (without mounting adapter). Spring return.				
LPC B1102	0	Black	10	0.025
LPC B1104		Red	10	0.025
LPC B1113	I	Green	10	0.025
LPC B1118		White	10	0.025
LPC B1123	II	Green	1	0.025
LPC B1128		White	1	0.025
LPC B1132	STOP	Black	1	0.025
LPC B1134		Red	10	0.025
LPC B1142	←	Black	10	0.025
LPC B1148	↔	White	10	0.025
LPC B1152	↑	Black	10	0.025
LPC B1158	↓	White	10	0.025
LPC B1163	START	Green	10	0.025
LPC B1168		White	1	0.025
LPC B1176	R	Blue	1	0.025
LPC B1178		White	1	0.025
LPC B1196	RESET	Blue	10	0.025
LPC B1502	↔	Black	10	0.025
LPC B1512	↔	Black	10	0.025

Extended (without mounting adapter). Spring return.

LPC B2102	0	Black	10	0.027
LPC B2104		Red	10	0.027
LPC B2132	STOP	Black	1	0.027
LPC B2134		Red	10	0.027

① Arrow symbol can be used to indicate right or left.
② 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/CSA: 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

Type: LPX AU120.

Actuators are installed through a Ø22mm/Ø0.89" drilling with a threaded fixing ring (Tmax = 2.3Nm / 1.69lbf) also on the cover of LPZ control stations except for LPC R... types.

The mounting adapter directly snaps onto the actuator; necessary for LPC R... types only when contact elements are fitted.

Contact elements for mechanical reset buttons

Type	Termination	
Front mount types snap onto LPX AU120 mounting adapter (to purchase separately), if any contacts are needed.		
Up to 6 contacts can be fitted: 3 each on the left and right, one behind the other.		
1NO	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

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 7-25.
Up to 3 contacts can be fitted per control station actuator.

1NO	LPX CB10	Screw
	LPX CB01	Screw

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

Certifications and compliance

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

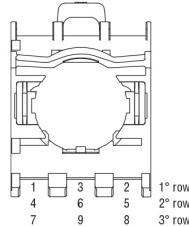
Mounting adapter



LPX AU120

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

Rear view
(reference for element installation)



Contact elements



LPX C...



LPX C01SM

LPX C02SM

new



LPX E...



LPX CF01

LPX CF10

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

Screw termination.
Without mounting adapter.

LPX C10⊕	$\begin{matrix} .3 \\ .4 \end{matrix}$ NO⊕	10	0.011
LPX C10A	$\begin{matrix} .7 \\ .8 \end{matrix}$ EM⊕	10	0.011
LPX C01⊖	$\begin{matrix} .1 \\ .2 \end{matrix}$ NC⊖	10	0.011
LPX C01D⊖⊕	$\begin{matrix} .5 \\ .6 \end{matrix}$ LB⊖⊕	10	0.011

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

LPX C01SM⊖	$\begin{matrix} .3 \\ .4 \end{matrix}$ L.1 1NC⊖⊕	1	0.022
LPX C02SM⊖	$\begin{matrix} .3 \\ .4 \end{matrix}$ L.1 L.1 2NC⊖⊕	1	0.033

Screw termination.
With mounting adapter.

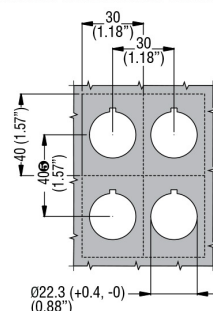
LPX E10⊕	$\begin{matrix} .3 \\ .4 \end{matrix}$ NO⊕	10	0.029
LPX E01⊖	$\begin{matrix} .1 \\ .2 \end{matrix}$ NC⊖	10	0.029

Faston termination.
Without mounting adapter.

LPX CF10⊕	$\begin{matrix} .3 \\ .4 \end{matrix}$ NO⊕	10	0.012
LPX CF01⊖	$\begin{matrix} .1 \\ .2 \end{matrix}$ NC⊖	10	0.012

- ⊕ Use LPX C10A (EM) or LPX 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.
- ⊖ 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.
- LPX AU120 adapter directly snaps onto the actuator fixed on the mounting surface.
- 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 first on the LPX AU120).
 - With LPX C01SM, a maximum of two contacts LPX C0... 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 C0... or LPX C1... can be fitted on the right (LPX AU120 pos. 2).
 - No LED element can be used with LPX...SM types.
- Maximum tightening torque for screw terminals: 1Nm / 0.74lbf.
- Ambient conditions:
 - Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C
- Degree of protection per IEC/EN:
 - 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 operational power in AC15:

[V]	12	24	48	120	240	400	480	500	600
[A]	6	6	6	6	3	1.9	1.5	1.4	1.2

IEC operational power in DC13:

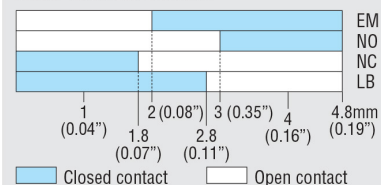
[V]	12	24	48	125	250	440	500	600
[A]	3	3	1.5	0.55	0.27	0.15	0.13	0.1

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

Contact resistance: ≤20mΩ.

Terminals: Clamp screw with washer
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 AWG14 cables.

Mechanical and electrical endurance

Operating force: ≤0.5kg / 1.1lb (auxiliary contacts).
Electrical life: 1,000,000 cycles for LPXC10/01/E10/E01, LPXC01SM/C02SM, LPXCF10/01; 600,000 cycles for LPXC10A/01D.

Certifications and compliance

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