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...



Order code	Colour	Qty per pkg	Wt
		n°	[kg]
Flush (without me	ounting adapter). Spring	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	t mounting adapter). Sp	oring 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 (withou Push on-push off	it mounting adapter).					
LPC QL2030	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			

Qty

Wt

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" (without 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.

Order code

Green	1	0.040		
Yellow	1	0.040		
Blue	1	0.040		
For emergency stopping, ISO 13850 compliant.				
Red	10	0.040		
	Yellow Blue copping, ISO 13850 con	Yellow 1 Blue 1 copping, ISO 13850 compliant.		

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.

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.

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

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.

Pushbuttons and selector switches

PLatinum Ø22mm series



Mounting adapter

Contact elements

LPX CO2SM



LPX AU120

LPX C..

LPX C01SM

LPX E...

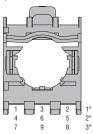
LPX CF01

LPX CF10

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

Rear view

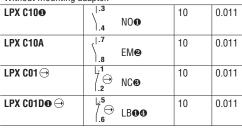
(reference for element installation)



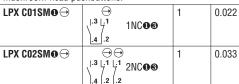
7	9	8	3° row		
Order	code		Function	Qty per pkg	Wt
				n°	[ka]

Screw termination.

Without mounting adapter



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



Screw termination. With mounting adapter.

3	•		
LPX E10€	\.4 NO ①	10	0.029
LPX E01⊖	.1 → NC®	10	0.029

Faston termination.

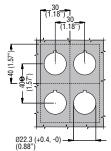
without mounting adapter.						
LPX CF100	.3 .4 NO❶	10	0.012			
LPX CF01 →	L.1 / → NC❸	10	0.012			

- 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.

	TEC/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 operational characteristics in DC13 category:										

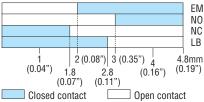
48 125 250 440 500 3 3 1.5 0.55 0.27 0.15 0.13

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

Contact resistance: $\leq 20 \text{m}\Omega$. Clamp screw with washer.

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

Stroke of contact elements



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

Mechanical and electrical endurance

Operating force: ≤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,

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