

Illuminated button actuators, spring return



LPC BL10...

new



LPC BL20...

new

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Illuminated push-push button actuators



LPC QL10...

new



LPC QL20...

new

Illuminated mushroom head button actuators



LPC BL614...

new



LPC BL664...

new

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

Flush (without mounting adapter).
Spring 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 (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

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

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

LPC QL103	Green	10	0.025
LPC QL104	Red	10	0.025
LPC QL105	Yellow	10	0.025
LPC QL106	Blue	10	0.025
LPC QL107	Transparent	10	0.025

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

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

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

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

SPRING RETURN.
Ø40mm/1.6in (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/1.6in (without mounting adapter).
For normal stopping.

LPC BL6643	Green	1	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
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Operational characteristics

- Ambient conditions:
 - Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C
- Any mounting position is allowed.
- 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 (flush, extended, mushroom head): 5,000,000 cycles
- Push-push actuators: 500,000 cycles
- Latch mushroom-head actuators: 300,000 cycles.

Mounting adapter

See page 7-12.

Type: LPX AU120.

Actuators are installed through a Ø22mm/Ø0.87in drilling with a threaded fixing ring (Tmax = 2.3Nm / 1.69lbf).

The mounting adapter directly snaps onto the actuator.

Contact elements for push-push button actuators

See page 7-12.

Type: LPX C10A (1EM)

LPX C01 (1NC)

Contact elements snap onto the mounting adapter.

Up to 4 contact elements can be fitted on the mounting adapter: 2 on the left and 2 on the right.

Contact elements for spring-return and latch type actuators

See page 7-12.

Type: LPX C10 (1NO)

LPX CF10 (1NO Faston)

LPX C10A (1EM)

LPX C01 (1NC)

LPX CF01 (1NC Faston)

LPX C01D (1LB)

Contact elements snap onto the mounting adapter.

On LPC BL1..., LPC BL2... and LPC BL61... types, up to 6 contact elements can be fitted of the mounting adapter: 3 on the left and 3 on the right.

On LPC BL66... types, up to 4 contact elements can be fitted on the mounting adapter: 2 on the left and 2 on the right.

LED integrated lamp holders

See page 7-13.

Certifications and compliance

Certifications obtained: UL Listed, for USA and Canada (File E93601), as Auxiliary Devices.

Certifications pending at time of catalogue printing: CCC.

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
		n°	[kg]
LPX AU120	Mounting adapter	10	0.019

Contact elements

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LPX C...



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

Screw termination.
 Without mounting adapter.

LPX C10Ⓢ	$\begin{matrix} 1.3 \\ \\ 1.4 \end{matrix}$ NOⓈ	10	0.011
LPX C10A	$\begin{matrix} 1.7 \\ \\ 1.8 \end{matrix}$ EMⓈ	10	0.011
LPX C01⊖	$\begin{matrix} 1.1 \\ \\ 1.2 \end{matrix}$ NCⓈ	10	0.011
LPX C01DⓈ⊖	$\begin{matrix} 1.5 \\ \\ 1.6 \end{matrix}$ LBⓈⓈ	10	0.011

Screw termination.
 With mounting adapter.

LPX E10Ⓢ	$\begin{matrix} 1.3 \\ \\ 1.4 \end{matrix}$ NOⓈ	10	0.029
LPX E01⊖	$\begin{matrix} 1.1 \\ \\ 1.2 \end{matrix}$ NCⓈ	10	0.029

Faston termination.
 Without mounting adapter.

LPX CF10Ⓢ	$\begin{matrix} 1.3 \\ \\ 1.4 \end{matrix}$ NOⓈ	10	0.012
LPX CF01⊖	$\begin{matrix} 1.1 \\ \\ 1.2 \end{matrix}$ NCⓈ	10	0.012

- Ⓢ Not suitable for push-push actuators. Use LPX C10A (EM) or LPX C01 (NC) type only with push-push actuators.
- Ⓢ Normally open contact with early make operation.
- ⊖ Direct opening operation ⊖ in accordance with IEC/EN 60947-5-1.
- Ⓢ Normally closed contact with late break operation.



LPX E...



LPX CF01 LPX CF10



Operational characteristics

- Ambient conditions:
 - Operating temperature: -25...+70°C
 - Storage temperature: -40...+85°C
- Any mounting position is allowed.
- Degree of protection per IEC/EN:
 - IP20 for contacts elements with screw termination
 - IP00 for contact elements with Faston termination.
- Tightening torque: 1Nm/0.74lbf max (except Faston).

General characteristics of contact elements

Self cleaning, 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:

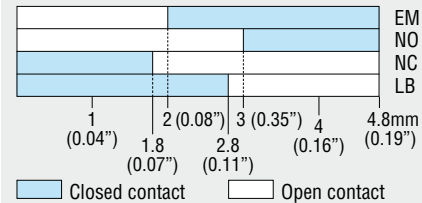
[V]	12	24	48	125	250	440	500	600
[A]	3	3	1.5	0.55	0.27	0.15	0.13	0.1

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

Contact resistance: ≤20mΩ.

Terminals: Clamp screw with washer
 Faston 1-6.35mm(0.25in) or 2-2.8mm (0.11in).

Stroke of contact elements

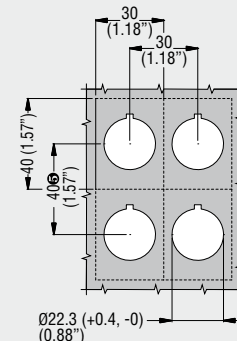


Maximum conductor cross section for screw terminals
 1 or 2 2.5mm² or AWG14 cables.

Mechanical and electrical endurance

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

LPX C10	1,000,000 cycles
LPX CF10	1,000,000 cycles
LPX C01	1,000,000 cycles
LPX CF01	1,000,000 cycles
LPX C10A	600,000 cycles
LPX C01D	600,000 cycles.



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

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

LED integrated lamp-holders steady or flashing light



LPX L...



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

Steady light.
Protected version.
Supplied without mounting adapter.

LPX LP B3	18-30V AC/DC	Green	10	0.016
LPX LP B4		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	85-140VAC	Green	10	0.016
LPX LP E4		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	185-265VAC	Green	10	0.016
LPX LP M4		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

Steady light.
Non-protected version.
Supplied without mounting adapter.

LPX LE B3	18-30V 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	85-140V 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	185-265V AC/DC	Green	10	0.016
LPX LE M4		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

Flashing light.
Protected version.
Supplied without mounting adapter.

LPX LF B3	18-30V AC/DC	Green	10	0.016
LPX LF B4		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	85-140VAC	Green	10	0.016
LPX LF E4		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	185-265VAC	Green	10	0.016
LPX LF M4		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

- Rated auxiliary supply voltage for:
 - Protected steady light: 18-30VAC/DC; 85-140VAC; 185-265VAC
 - Non-protected steady light: 18-30VAC/DC; 85-140VAC/DC; 185-265VAC/DC
 - Protected flashing light: 18-30VAC/DC; 85-140VAC; 185-265VAC
- Maximum consumption for:
 - Protected steady light: 17mA (18-30VAC/DC) 20mA (85-140VAC) 17mA (185-265VAC)
 - Non-protected steady light: 11mA (18-30VAC/DC) 5mA (85-140VAC/DC) 3mA (185-265VAC/DC)
 - Protected flashing light: 17mA (18-30VAC/DC) 20mA (85-140VAC) 17mA (185-265VAC)
- Protected version features consist of:
 - Over voltage protection
 - Withstand to vibrations
 - Protection against stray currents in wiring
 - Flickering phenomenon reduction
- Electrical life: 100,000 hours
- Ambient conditions:
 - Operating temperature: -25...+70°C (-25...+60°C for LPX LE...)
 - Storage temperature: -40...+85°C
- Any mounting position is allowed.
- Degree of protection per IEC/EN: IP20
- Maximum tightening torque: 1Nm / 0.74lbf.

Maximum conductor cross section

1 o 2 2.5mm² or AWG12 cables.

Wiring diagram



Certifications and compliance

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