Altech Corp.

22mm LED Illuminated Mushroom Metal Operators







Certified for **NEMA Type 4X** 12 environment.

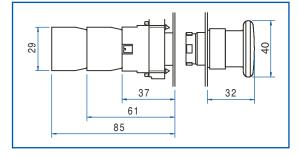
Mushroom Illuminated Push-Pull

with LED bulb, bulb holder and mounting bracket

Dimensional Drawings All dimensions shown in millimeters.

All dimensions shown in millimeters. To convert to inches multiply by 0.03937

Illuminated Mushroom Push-Pull



Switch Contacts (sold separately)



- Heavy-duty contact blocks with mounting screws. Blocks can be stacked 2 blocks across by 3 blocks deep for a total of 6 circuits.
- Contact blocks are available with silver contacts or gold plated contacts
- · Self-wiping contacts

Panel Mount

Normally Open Silver	S1
Normally Closed Silver	S2
Normally Open Gold Plated	S 3
Normally Closed Gold Plated	S4

Base Mount*

Normally Open Silver	S 5
Normally Closed Silver	S6
Normally Open Gold Plated	S7
Normally Closed Gold Plated	S8

* For use with non-illuminated operators in thermoplastic or aluminum enclosures listed on pages 30 and 36-37.

Color	Description	Cat No.
12V AC/DC	;	
White	40mm Head, 12VAC/DC	2ALMPP1LB-012
Green	40mm Head, 12VAC/DC	2ALMPP3LB-012
Red	40mm Head, 12VAC/DC	2ALMPP4LB-012
Amber	40mm Head, 12VAC/DC	2ALMPP5LB-012
Blue	40mm Head, 12VAC/DC	2ALMPP6LB-012
Clear	40mm Head, 12VAC/DC	2ALMPP7LB-012
Yellow	40mm Head, 12VAC/DC	2ALMPP8LB-012
24V AC/DC		
White	40mm Head, 24VAC/DC	2ALMPP1LB-024
Green	40mm Head, 24VAC/DC	2ALMPP3LB-024
Red	40mm Head, 24VAC/DC	2ALMPP4LB-024
Amber	40mm Head, 24VAC/DC	2ALMPP5LB-024
Blue	40mm Head, 24VAC/DC	2ALMPP6LB-024
Clear	40mm Head, 24VAC/DC	2ALMPP7LB-024
Yellow	40mm Head, 24VAC/DC	2ALMPP8LB-024
48V AC/DC		
White	40mm Head, 48VAC/DC	2ALMPP1LB-048
Green	40mm Head, 48VAC/DC	2ALMPP3LB-048
Red	40mm Head, 48VAC/DC	2ALMPP4LB-048
Amber	40mm Head, 48VAC/DC	2ALMPP5LB-048
Blue	40mm Head, 48VAC/DC	2ALMPP6LB-048
Clear	40mm Head, 48VAC/DC	2ALMPP7LB-048
Yellow	40mm Head, 48VAC/DC	2ALMPP8LB-048
110V AC*		
White	40mm Head, 110VAC*	2ALMPP1LB-110
Green	40mm Head, 110VAC*	2ALMPP3LB-110
Red	40mm Head, 110VAC*	2ALMPP4LB-110
Amber	40mm Head, 110VAC*	2ALMPP5LB-110
Blue	40mm Head, 110VAC*	2ALMPP6LB-110
Clear	40mm Head, 110VAC*	2ALMPP7LB-110
Yellow	40mm Head, 110VAC*	2ALMPP8LB-110
230V AC*		
White	40mm Head, 230VAC*	2ALMPP1LB-230
Green	40mm Head, 230VAC*	2ALMPP3LB-230
Red	40mm Head, 230VAC*	2ALMPP4LB-230
Amber	40mm Head, 230VAC*	2ALMPP5LB-230
Blue	40mm Head, 230VAC*	2ALMPP6LB-230
Clear	40mm Head, 230VAC*	2ALMPP7LB-230
Yellow	40mm Head, 230VAC*	2ALMPP8LB-230

*110V DC and 230V DC version is available on request.

Exploded Assembly View

- Up to four switch contacts can be installed with any illuminated operators.
- Switch contacts and operators are sold separately. Preassembled push buttons are available on request. S1 S2 S2 S1

22mm Specifications

Electrical and Mechanical Characteristics

Standard conformity:	IEC 60947-5-1
Approvals:	VDE0660
	CSA - C22.2 No. 14-95
	UL508
	IEC 947 - 5 (1) 1990, IS 13947
	ASTA UK certified as per IEC 947 - 5 - (1) 1990
Degree of protection:	IP 65 as per IEC 529
	NEMA Type 4X, 12 as per UL50
Temperature Range:	- 25°C to + 70°C (-13°F to +158°F)

Contact Block

Rated voltage:	600V AC /DC
Rated current:	10A AC / 2.5A DC
Contact operation:	self-wiping, slow break NO or NC
UL508 rating (pilot duty):	
CSA - C22.2 No. 14-95:	A600: 10A; 600V AC
	Q600: 2.5A; 600V DC
Make and break capacity	
IEC 947 - 5 - (1) 1990:	AC 15 4A, 415V AC
	DC 13 0.5A, 110V DC
Terminal capacity:	minimum 20 AWG (0.5 mm²)
	maximum 2x16 AWG (2 x 1.5 mm²) or 14 AWG (2.5 mm²)
Terminal marking:	1-2 for NC, 3-4 for NO
Short circuit protection:	10A cartridge fuse HRC type, rated for resistive loads
Mechanical life:	1 million operations

Modules for Pilot Lights & Illuminated Switches with LED Bulbs

Current consumption (applicable to all colors)	
24 VAC/DC, 100 VAC & 240 VAC:	max. 20 mA
110 VDC:	max. 15 mA
220 VDC:	max. 10 mA
Service life (at nominal voltage and at	
ambient temperature of 25°C):	100,000 hours
Voltage limits (nominal voltage):	<20% of rated voltage>
Short circuit protection:	on specific request
Terminal capacity:	min. 1 x 0.5 mm² (20 AWG), max. 2 x 1.5 mm² (2x16 AWG)
	or 1 x 2.5 mm² (1x14 AWG)

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