22mm Non-Illuminated Mushroom Metal Operators

Mushroom
Momentary
with mounting bracket
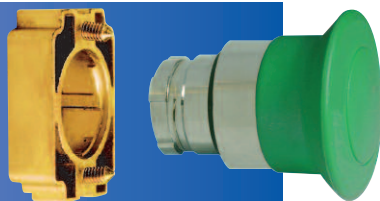
	Color	Description	Cat No.
☐	White	40mm, Head	2AM1
■	Black	40mm, Head	2AM2
■	Green	40mm, Head	2AM3
■	Red	40mm, Head	2AM4
■	Blue	40mm, Head	2AM6
☐	Yellow	40mm, Head	2AM8

Mushroom
Momentary Large
with mounting bracket
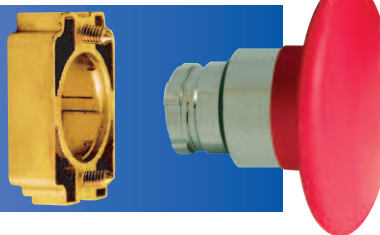
	Color	Description	Cat No.
☐	White	60mm, Head	2AMJ1
■	Black	60mm, Head	2AMJ2
■	Green	60mm, Head	2AMJ3
■	Red	60mm, Head	2AMJ4
■	Blue	60mm, Head	2AMJ6
☐	Yellow	60mm, Head	2AMJ8

Mushroom
Push-Pull
with mounting bracket
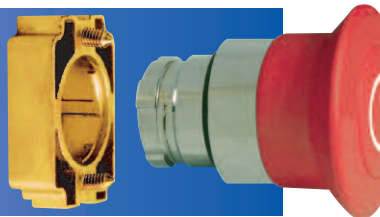
	Color	Description	Cat No.
☐	White	40mm, Head	2AMPP1
■	Black	40mm, Head	2AMPP2
■	Green	40mm, Head	2AMPP3
■	Red	40mm, Head	2AMPP4
■	Blue	40mm, Head	2AMPP6
☐	Yellow	40mm, Head	2AMPP8

Mushroom
Push-Pull Large
with mounting bracket
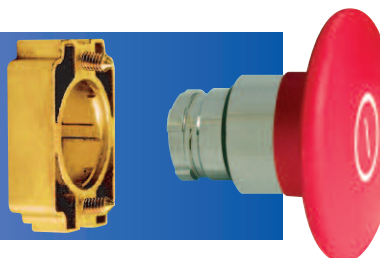
	Color	Description	Cat No.
☐	White	60mm, Head	2AMPPJ1
■	Black	60mm, Head	2AMPPJ2
■	Green	60mm, Head	2AMPPJ3
■	Red	60mm, Head	2AMPPJ4
■	Blue	60mm, Head	2AMPPJ6
☐	Yellow	60mm, Head	2AMPPJ8

Markings on Request

Altech Push Buttons are available in a variety of custom markings.

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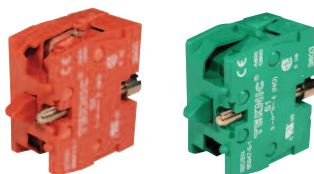
- Heavy-duty contact blocks with mounting screws. Blocks can be stacked 2 blocks across by 3 blocks deep for a total of 6 circuits.
- Contact blocks are available with silver contacts or gold plated contacts
- Self-wiping contacts

Panel Mount

Normally Open Silver	**S1**
Normally Closed Silver	**S2**
Normally Open Gold Plated	**S3**
Normally Closed Gold Plated	**S4**

Base Mount*

|	
Normally Open Silver	**S5**
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.

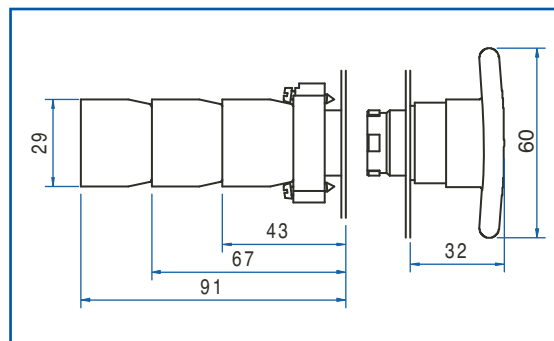# 22mm Non-Illuminated Mushroom Metal Operators

Dimensional Drawings

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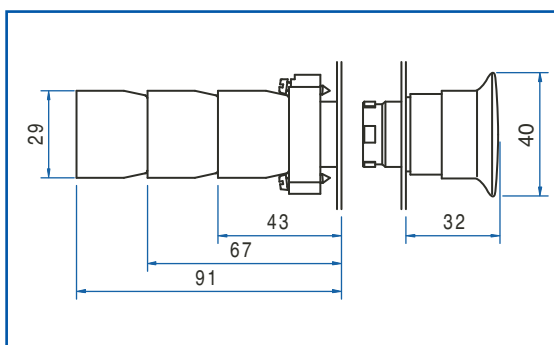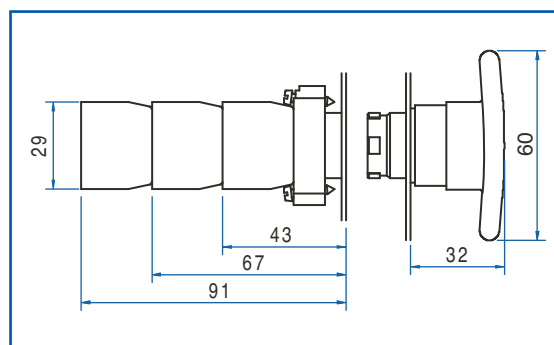To convert to inches multiply by 0.03937

Mushroom Momentary
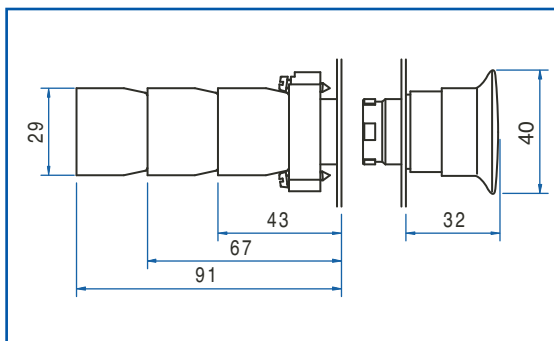
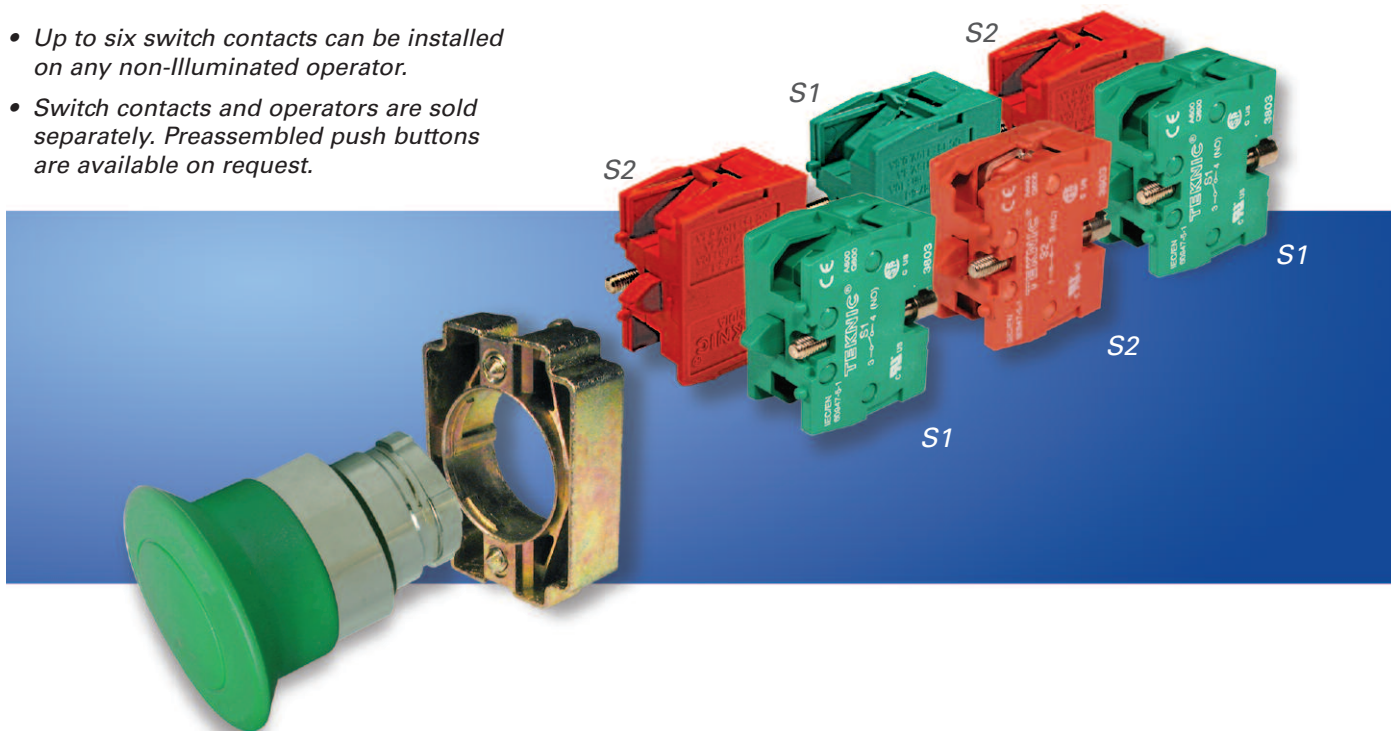Mushroom Momentary Large

Mushroom Push-Pull

Mushroom Push-Pull Large

Exploded Assembly View

- Up to six switch contacts can be installed on any non-Illuminated operator.

- Switch contacts and operators are sold separately. Preassembled push buttons are available on request.

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 mm^2)
	maximum 2x16 AWG (2 x 1.5 mm^2) or 14 AWG (2.5 mm^2)
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 mm^2 (20 AWG), max. 2 x 1.5 mm^2 (2x16 AWG)
	or 1 x 2.5 mm^2 (1x14 AWG)

Mouser Electronics

Authorized Distributor

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