Complete Devices∗
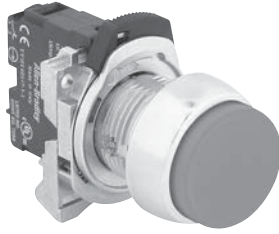
Non-Illuminated Push Buttons, Momentary (Screw Terminal Connections)

	Description	Type of Contact N.O.	N.C.	Color	Construction	Pkg. Quantity	Cat. No.
Cat. No. 800FP-F3PX10	Flush	1	—	Green	Plastic operator/plastic latch	1	**800FP-F3PX10**
				Black			**800FP-F2PX10**
				Green	Metal operator/metal latch		**800FM-F3MX10**
				Black			**800FM-F2MX10**
Cat. No. 800FM-E4MX01	Extended	—	1	Red	Plastic operator/plastic latch		**800FP-E4PX01**
					Metal operator/metal latch		**800FM-E4MX01**
Cat. No. 800FP-U2E4F3PX10	Multi-function (Flush/extended)	1	1	Green/ Red	Plastic operator/plastic latch		**800FP-U2E4F3PX11**
					Metal operator/metal latch		**800FM-U2E4F3MX11**
				Green "1"/ Red "0"	Plastic operator/plastic latch		**800FP-U2EFFEPX11**
					Metal operator/metal latch		**800FM-U2EFFEMX11**

Non-Illuminated Selector Switches (Screw Terminal Connections)

	Description	Type of Contact N.O.	N.C.	Style	Construction	Pkg. Quantity	Cat. No.
Cat. No. 800FP-SM22PX10	Standard lever, black	1	—	2-position maintained	Plastic operator/plastic latch	1	**800FP-SM22PX10**
		1	1	2-position maintained	Plastic operator/plastic latch		**800FP-SM22PX11**
		1	—	2-position maintained	Metal operator/metal latch		**800FM-SM22MX10**
		1	1	2-position maintained	Metal operator/metal latch		**800FM-SM22MX11**
		2	—	3-position maintained	Plastic operator/plastic latch		**800FP-SM32PX20**
		2	—	3-position maintained	Metal operator/metal latch		**800FM-SM32MX20**

∗ For complete devices not listed and configuration assistance, see RAISE product selection software (http://www.ab.com/raise).

10

Overview, Continued

3-Across x 2-Deep Back-of-Panel (6 Circuits Max.)

- Rugged snap-fit design for plastic or metal latch
- Stackable contact blocks
- Rotating collar for easy one-hand latch removal
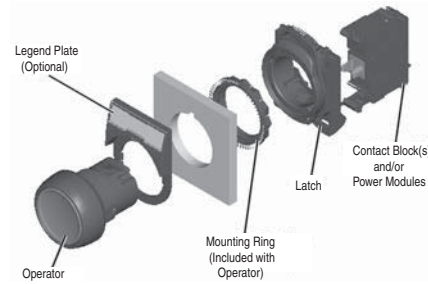- Color-coded contact block plungers for contact identification

Plastic Latch with Contact Block

Metal Latch with Contact Block

Assembly Overview

Legend Plate (Optional)

Contact Block(s) and/or Power Modules

Latch

Mounting Ring (Included with Operator)

Operator

Specifications∗

Front-of-Panel (Operators)

Mechanical Ratings			
Description		**Plastic (Bulletin 800FP)**	**Metal (Bulletin 800FM)**
Vibration (assembled to panel)		Tested at 10…2000 Hz, 1.52 mm displacement (peak-to-peak) max./10 G max. for 3 hr duration, no damage	
Shock		Tested at 1/2 cycle sine wave for 11 ms; no damage at 100 G	
Degree of protection※		IP65/66 (Type 3/3R/4/4X/12/13)	IP65/66 (Type 3/3R/4/12/13)
Mechanical durability per EN 60947-5-1 (Annex C)	10 000 000 Cycles	Momentary push buttons, momentary mushroom	
	1 000 000 Cycles	Multi-function, selector switch, key selector switch, selector jog, SensEject™ key selector switch	
	500 000 Cycles	Non-illuminated push-pull E-stop‡	
	300 000 Cycles	Twist-to-release E-stop, illuminated push-pull E-stop‡, alternate action push buttons	
	100 000 Cycles	Potentiometer, toggle switch	
Operating forces (typical with one contact block)		Flush/extended = 5 N, E-stop = 36 N Mushroom = 9 N	
Operating torque (typical application with one contact block)		Selector switch = 0.25 N•m (2.2 lb•in)	
Mounting torque	Plastic	1.7 N•m (15 lb•in)	
	Metal	4.4 N•m (40 lb•in)	
Environmental			
Temperature range (operating)		-25…+70 °C (-13…+158 °F)§	
Temperature range (short term storage)		-40…+85 °C (-40…+185 °F)	
Humidity		50…95% RH from 25…60 °C (77…140 °F)	

∗ Performance Data — see page Important-3 of the Industrial Controls catalog.

※ Momentary mushroom operators are IP65. Plastic keyed operators are IP66, Type 4/13; not Type 4X.

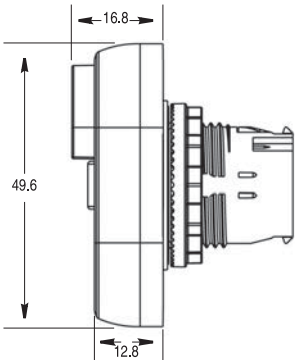‡ Limit of four contact blocks max. for these devices.

§ Operating temperatures below 0 °C (32 °F) are based on the absence of freezing moisture and liquids, UL Recognized to 55 °C (131 °F) - Incandescent module max. 40 °C (104 °F).
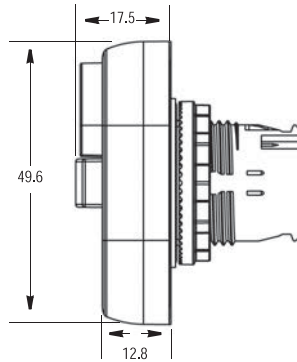
Product Certifications

Certifications	UR/UL, CSA, CCC, CE
Standards Compliance — CE Marked	NEMA ICS-5; UL 508, EN ISO 13850, EN 60947-1, EN 60947-5-1, EN 60947-5-5
Terminal Identification	EN/IEC 60947-1
Shipping Approvals	ABS
RoHS	✓

10

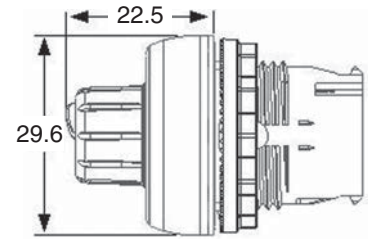Dimensions in millimeters. Dimensions are not intended to be used for manufacturing purposes.

**Illuminated and Non-Illuminated
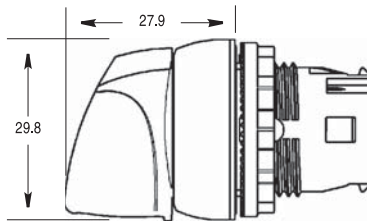2-Position Multi-Function Operators**

16.8
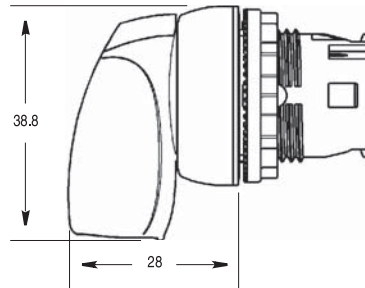49.6
12.8

**Non-Illuminated 3-Position
Multi-Function Operators**

17.5
49.6
12.8

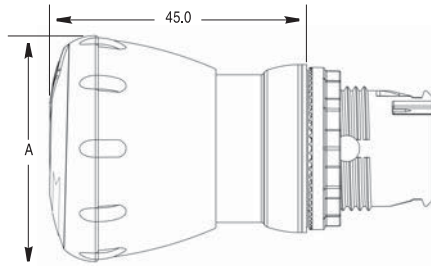**Potentiometer Operator**

22.5
29.6

**Illuminated and Non-Illuminated Knob
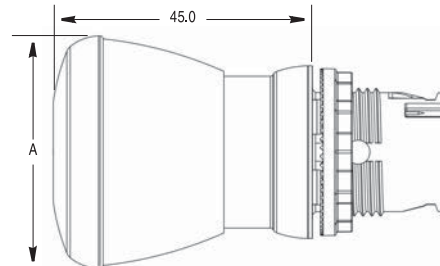Selector Switch Operators**

27.9
29.8

**Non-Illuminated Knob Lever Selector
Switch Operators**

38.8
28

**Illuminated and Non-Illuminated
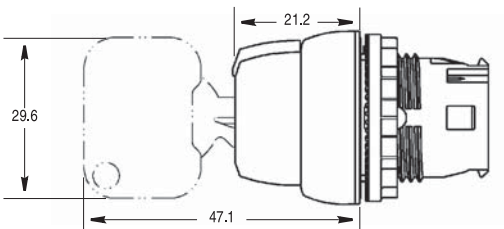Twist-to-Release Operators
30 mm, 40 mm, and 60 mm**

45.0
A

**Illuminated and Non-Illuminated
Push-Pull Mushroom Operators
30 mm, 40 mm, and 60 mm**

45.0
A

Operator	A
30 mm	30.0
40 mm	40.0
60 mm	60.0

**Key Selector Switch and Key Ejected
SensEject Operators**

21.2
29.6
47.1

Mushroom Key Release Operator 40 mm

45.0
40.0
3825
3825
72.0

10

A·B Allen-Bradley   www.ab.com/catalogs   Preferred availability cat. nos. are **bold**.

Publication A117-CA001A-EN-P

10-121