

22.5 mm Push Buttons

Quick Selection

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Components

Operator Style	Description	Color	Construction	Pkg. Quantity	Cat. No.
 <i>Flush Operator</i> Cat. No. 800FP-F3	Non-illuminated, flush push button	Black	Plastic	1	800FP-F2
	Non-illuminated, flush push button	Green			800FP-F3
	Non-illuminated, extended push button	Red			800FP-E4
	Non-illuminated, flush push button	Black	Metal		800FM-F2
	Non-illuminated, flush push button	Green			800FM-F3
	Non-illuminated, extended push button	Red			800FM-E4
 <i>Flush Operator</i> Cat. No. 800FM-LF4	Illuminated, flush push button	Green	Plastic	1	800FP-LF3
	Illuminated, extended push button	Red			800FP-LE4
	Illuminated, flush push button	Yellow			800FP-LF5
	Illuminated, flush push button	Green	Metal		800FM-LF3
	Illuminated, extended push button	Red			800FM-LE4
	Illuminated, flush push button	Yellow			800FM-LF5
 <i>Diffused Pilot Light</i> Cat. No. 800FP-P7	Diffused pilot light	Green	Plastic	1	800FP-P3
		Red			800FP-P4
		Yellow			800FP-P5
		Green	Metal		800FM-P3
		Red			800FM-P4
		Yellow			800FM-P5
 <i>Selector Switch</i> Cat. No. 800FP-SM32	Non-illuminated, 2-position, maintained selector switch	Black	Plastic	1	800FP-SM22
	Non-illuminated, 3-position, maintained selector switch				800FP-SM32
	Non-illuminated, 3-position, spring return from both positions selector switch				800FP-SB32
	Non-illuminated, 2-position, maintained selector switch		Metal		800FM-SM22
	Non-illuminated, 3-position, maintained selector switch				800FM-SM32
	Non-illuminated, 3-position, spring return from both positions selector switch				800FM-SB32
 <i>40 mm Trigger Action Twist-to-Release Mushroom</i> Cat. No. 800FP-MT44	Non-illuminated, 40 mm twist-to-release maintained mushroom (plastic)	Red	Plastic	1	800FP-MT44
	Non-illuminated, 40 mm push-pull maintained mushroom				800FP-MP44
	Non-illuminated, 40 mm twist-to-release maintained mushroom (metal)		Metal		800FM-MT44
	Non-illuminated, 40 mm push-pull maintained mushroom				800FM-MP44
Back of Panel	Description			Pkg. Quantity	Cat. No.
 <i>Power Module with Latch</i> Cat. No. 800F-MN3G	Metal latch			10	800F-ALM
	Plastic latch				800F-ALP
	Normally open contact block				800F-X10
	Normally closed contact block				800F-X01
	Integrated LED module with plastic latch — Red LED			1	* 800F-PNxR
	Integrated LED module with plastic latch — Green LED				* 800F-PNxG
	Integrated LED module with plastic latch — White LED				* 800F-PNxW
	Integrated LED module with metal latch — Red LED				* 800F-MNxR
	Integrated LED module with metal latch — Green LED				* 800F-MNxG
	Integrated LED module with metal latch — White LED				* 800F-MNxW

* To complete the cat. no., replace the x with one of the following voltage codes: **3** = 24V, **5** = 120V, **7** = 240V.

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

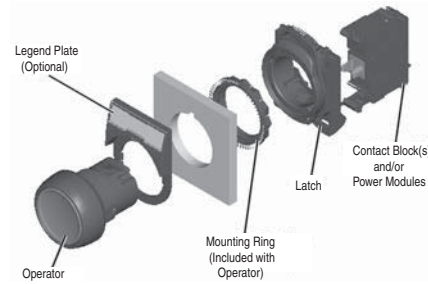


Plastic Latch with Contact Block



Metal Latch with Contact Block

Assembly Overview



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	✓

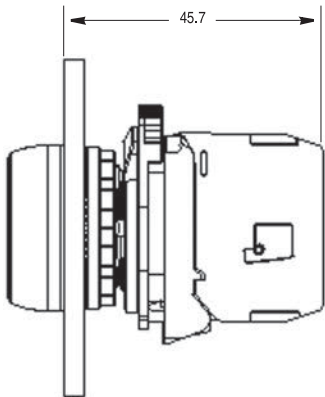
Bulletin 800F

22.5 mm Push Buttons

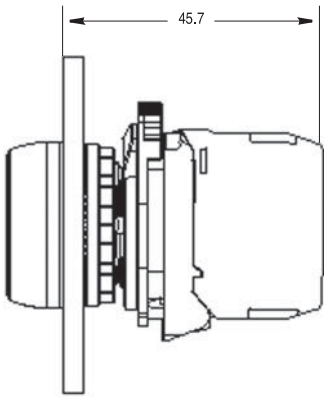
Approximate Dimensions

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

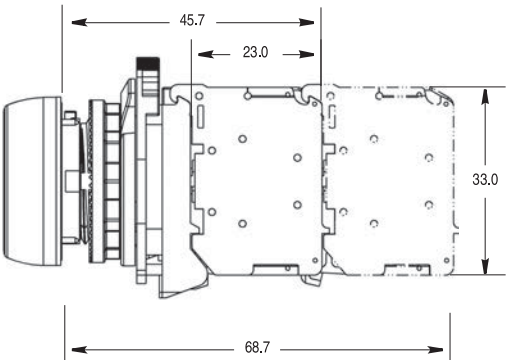
Back-of-Panel Components —
Incandescent Module with Latch



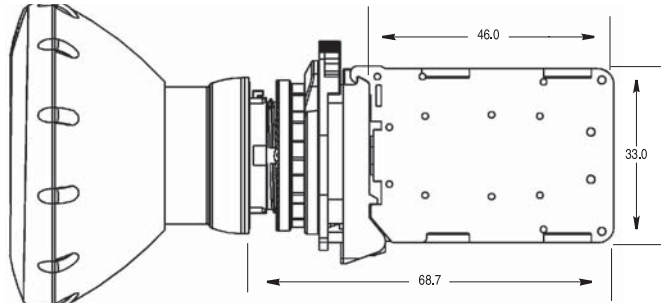
Back-of-Panel Components —
LED Module with Latch



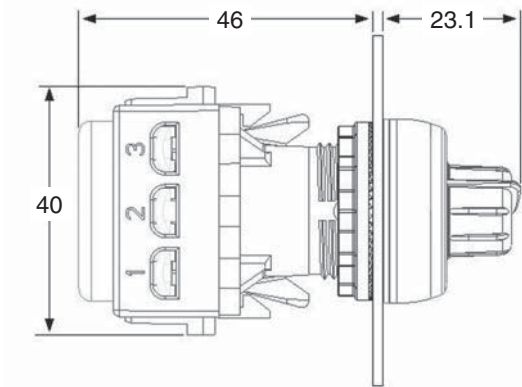
Back-of-Panel Components —
Contact Cartridges with Latch



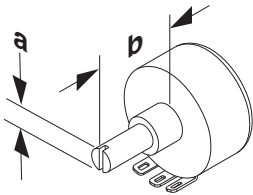
Back-of-Panel Components —
Dual Circuit Contact Block or
Self Monitoring Contact Block
(Max. of 1 Deep)



Potentiometer with Resistive Element



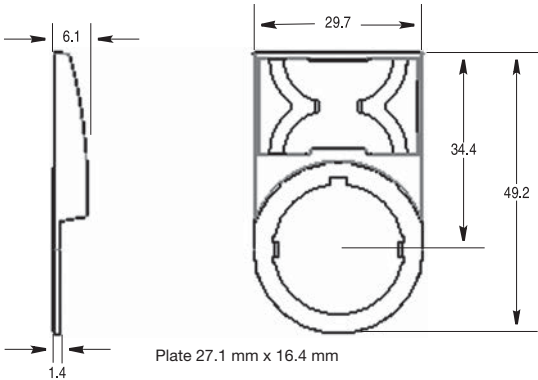
Customer Supplied Resistive Element



	Max.		Min.
a (Ø Dia.)	6.4 (0.252)	5.9 (0.232)	5.7 (0.224)
b (Length)	24 (0.945)	32 (1.26)	14 (0.551)

Dimensions in millimeters (inches).

30 x 50 mm Snap-In Legend Plate



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30 x 40 mm Snap-In Legend Plate

