

Momentary Push Button Operators, Non-Illuminated — with Two-Color Molded Legend Caps



Flush Operator
Cat. No. 800FP-F301

Table with columns: Button Color, Text Color, Legend Text, Pkg. Quantity, Flush (Plastic/Metal), Extended (Plastic/Metal). Rows include various button configurations like Green/White/START, Red/White/STOP, and Black/White/arrow.

800F P - F 3 01
a b c d

Three sub-tables: a. Operator Construction (Code P: Round plastic operator, Code M: Round metal operator); b. Operator Type (Code F: Flush, Code E: Extended, Code G: Guarded); c. Color Cap (Code 0-6: Orange, White, Black, Green, Red, Yellow, Blue); d. Legend Text (Code 01: START, 02: STOP, 05: O, 06: I, 08: arrow, 09: Forward, 10: Reverse, 11: R).

* For custom laser-engraved legend cap, order "no cap" option on page 10-73 plus custom laser-engraved cap on page 10-115.
* White and yellow caps have black text. All other color caps have white text.
§ Legend button cap supplied loose for customer installation.
♣ Available for flush only.
‡ Valid color cap/legend text codes include:

Table with columns: Color, Text (Flush Caps, Extended Caps). Rows show combinations for White, Black, Green, Red, Yellow, and Blue caps with various text options like FORWARD, REVERSE, STOP, and arrows.

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

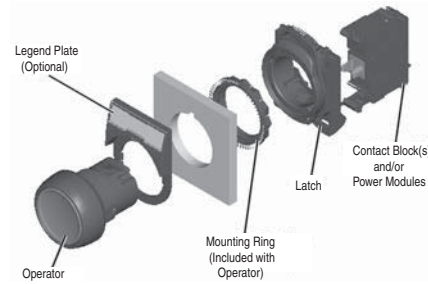


Plastic Latch with Contact Block



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).

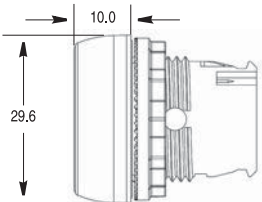
Product Certifications

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	✓

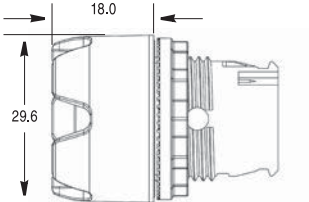
Approximate Dimensions

Dimensions in millimeters. Dimensions are not intended to be used for manufacturing purposes. Refer to RAISE software for additional dimensional information.

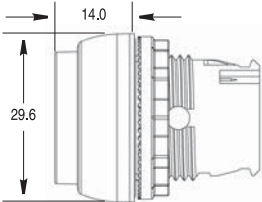
Non-Illuminated and Illuminated Momentary Flush Push Button Operators



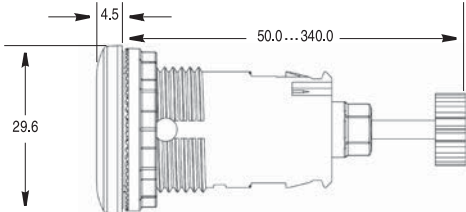
Illuminated Momentary Guarded Push Button Operators



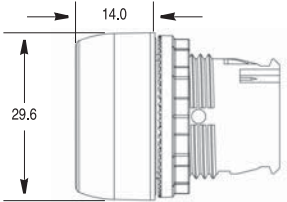
Illuminated and Non-Illuminated Momentary Extended Push Button Operators



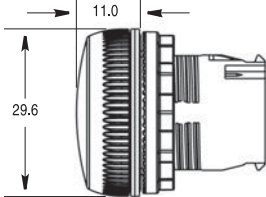
Reset Operators with Reset Rod



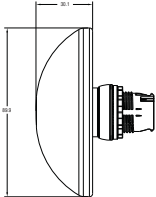
Non-Illuminated Guarded, Illuminated and Non-Illuminated Alternate Action Push Button Operators



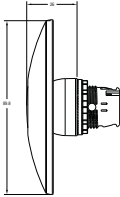
Pilot Light Operators



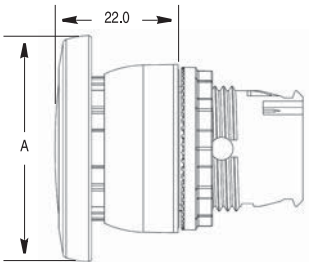
90 mm Half Dome



90 mm Mushroom

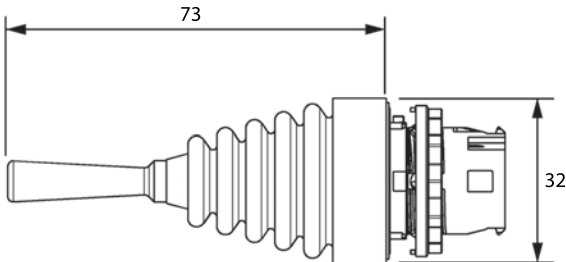


Illuminated and Non-Illuminated Momentary Mushroom Operators
 40 mm and 60 mm



Operator	A
40 mm	39.8
60 mm	59.8

Toggle Switch Operators



Selector Jog Operators

