Momentary Push Button Operators, Illuminated — Mushroom*



40 mm Mushroom Cat. No. 800FP-LMM43

		40 mm Mushroom	
		Plastic	Metal
Color	Pkg. Quantity	Cat. No.	Cat. No.
Green		800FP-LMM43	800FM-LMM43
Red		800FP-LMM44	800FM-LMM44
Yellow	1	800FP-LMM45	800FM-LMM45
Blue		800FP-LMM46	800FM-LMM46
Clear		800FP-LMM47	800FM-LMM47

800F P - LMM4

a

	Operator Construction		
Code	de Description		
Р	Round plastic operator (IP65, Type 4/4X/13)		
M Round metal operator (IP65, Type 4/13)			

b

Size and Operator Type	
Code	Туре
LMM4	40 mm momentary

C

	Lens Cap Color		
	Code	Color	
	3	Green	
I	4	Red	
	5	Yellow₩	
	6	Blue∜	
	7	Clear 	

- * Momentary mushroom operators are IP65 rated.
 \$\text{\$\$ When using LED for illumination, a white LED is recommended.}\$

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Overview, Continued

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

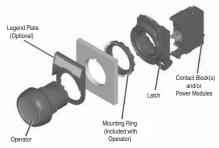
- Rugged snap-fit design for plastic or metal latch
- Stackable contact blocks
- Rotating collar for easy one-hand latch removal
- Color-coded contact block plungers for contact identification





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 102000 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)	
	10 000 000 Cycles	Momentary push buttons, momentary mushroom		
Mechanical durability per	1 000 000 Cycles	Multi-function, selector switch, key selector switch, selector jog, SensEject™ key selector switch		
EN 60947-5-1 (Annex C)	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)		
Plastic		1.7 N•m (15 lb•in)		
Mounting torque	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		5095% RH from 2560 °C (77140 °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	✓



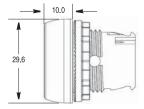
22.5 mm Push Buttons

Approximate Dimensions

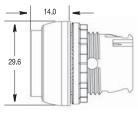
Approximate Dimensions

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

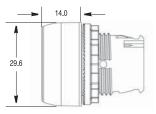
Non-Illuminated and Illuminated Momentary Flush Push Button Operators



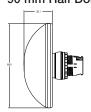
Illuminated and Non-Illuminated Momentary Extended Push Button Operators



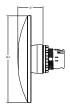
Non-Illuminated Guarded, Illuminated and Non-Illuminated Alternate Action Push Button Operators



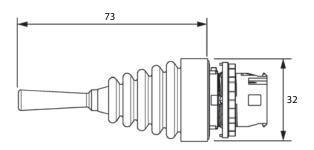
90 mm Half Dome



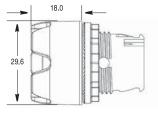
90 mm Mushroom



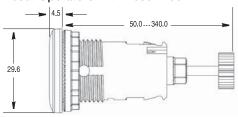
Toggle Switch Operators



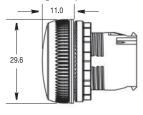
Illuminated Momentary Guarded Push Button Operators



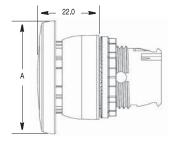
Reset Operators with Reset Rod



Pilot Light Operators



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



Operator	Α
40 mm	39.8
60 mm	59.8

Selector Jog Operators

