

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.

Bulletin 800F

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Specifications

Back-of-Panel Components*

Electrical Ratings				
Standard contact block ratings		A600, Q600 600V AC AC 15, DC 13 to IEC/EN 60947-5-1 and UL 508, 17V, 5 mA min.		
Low voltage contact block ratings✳		5V, 1 mA DC min. C300, R150, AC 15, DC 13 to EN 60947-5-1 and UL 508		
Nominal Voltage		Range	Current Draw	Frequency
LED Module Ratings	24...120V AC/DC	20...132V AC/DC	15 mA (AC), 12 mA (DC)	50/60 Hz, DC
	24V AC	10...29V AC	31 mA	50/60 Hz
	24V DC	10...30V DC	24 mA	DC
	120V AC	102...132V AC	6 mA	50/60 Hz
	240V AC	204...264V AC	6 mA	50/60 Hz
Thermal current		10 A max. enclosed (40 °C ambient) to UL508, EN 60947-5-1		
Insulation voltage (U _i)		Screw terminal = 690V, spring-clamp = 300V		
Wire capacity (screw terminal)‡		#18...12 AWG (0.75...2.5 mm²) Max. (2) #14 AWG or (1) #12 AWG		
Wire capacity (spring-clamp terminal)		#18...14 AWG (0.75...1.5 mm²) One per spring clamp, two spring clamps per terminal		
Recommended tightening torque on screw terminals		0.7...0.9 N•m (6...8 lb•in)		
Dielectric strength (minimum)		2500V for one minute		
External short circuit protection	Standard blocks	10 A type gL/gG cartridge fuse to EN 60269-2-1 or gN (Class J to UL 248-8 or Class C to UL 248-4)		
	Low voltage contact blocks	6 A type gL/gG cartridge fuse to EN 60269-2-1 or gN (Class J to UL 248-8 or Class C to UL 248-4)		
Electrical shock protection		Finger-safe conforming to IP2X		
Mechanical Ratings				
Vibration (assembled to panel)		Tested at 10...2000 Hz, 1.52 mm displacement (peak-to-peak) max./10 G max. 6 hr		
Shock		Tested at 1/2 cycle sine wave for 11 ms and no damage at 100 G max.		
Contact durability per EN 60947-5-1 (Annex C)		10 000 000 cycles		
Contact operation	N.O.	Slow double make and break		
	N.C. & S.M.C.B.	Slow double make and break — positive opening ⤵		
	N.O.E.M.	Double break / double make, early make		
	N.C.L.B.	Double break / double make, late break — positive opening ⤵		
	N.C.E.B.	Double break / double make, early break — positive opening ⤵		
Push button travel to change electrical state		N.C. and N.O.E.M.	1.5 mm (0.060 in.)	
		N.O. and N.C.L.B.	2.5 mm (0.1 in.)	
Operating forces (typical)	Single circuit contact block	3.4 N		
	Dual circuit contact block	5...6.5 N		
Illumination				
LED Dominant Wavelength	Green	525 nm		
	Red	629 nm		
	Yellow	590 nm		
	Blue	470 nm		
	White	—		
LED Luminous Intensity	Green	780 mcd		
	Red	780 mcd		
	Yellow	600 mcd		
	Blue	168 mcd		
	White	360 mcd		
Incandescent maximum wattage		2.6 W		
Materials				
Springs		Stainless steel and zinc coated music wire		
Electrical contacts	Standard	Silver-nickel		
	Low voltage	Gold-plated over silver		
Terminals	Screw	Brass		
	Spring-clamp	Silver-plated brass		

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

* Low voltage contacts are recommended for applications below 17V, 5 mA.

‡ Wires less than #18 AWG (0.75 mm²) may not hold in terminal securely.

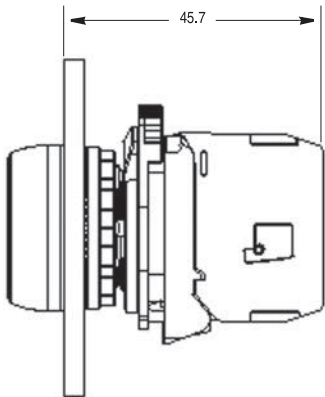
Bulletin 800F

22.5 mm Push Buttons

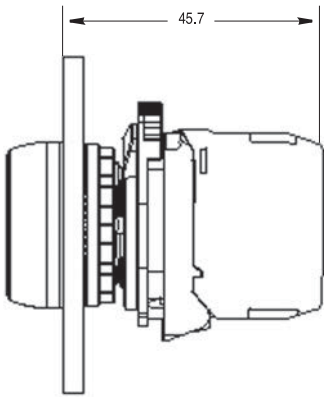
Approximate Dimensions

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

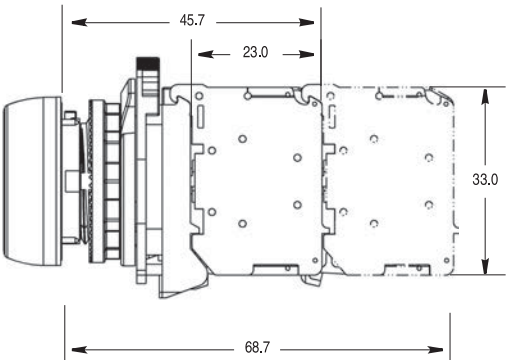
Back-of-Panel Components —
Incandescent Module with Latch



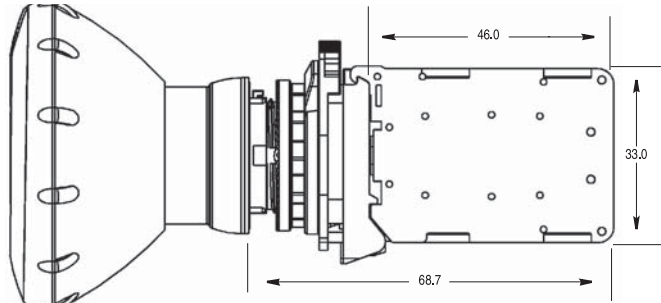
Back-of-Panel Components —
LED Module with Latch



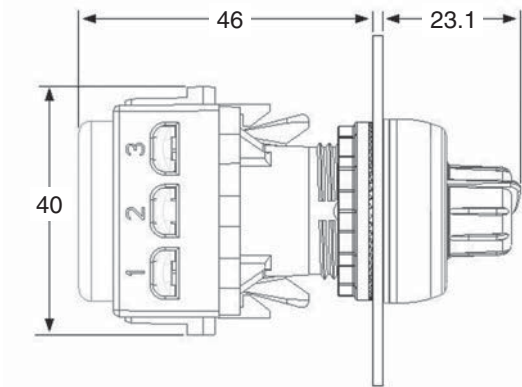
Back-of-Panel Components —
Contact Cartridges with Latch



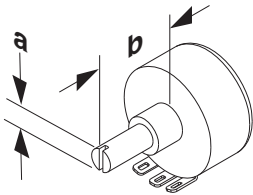
Back-of-Panel Components —
Dual Circuit Contact Block or
Self Monitoring Contact Block
(Max. of 1 Deep)



Potentiometer with Resistive Element



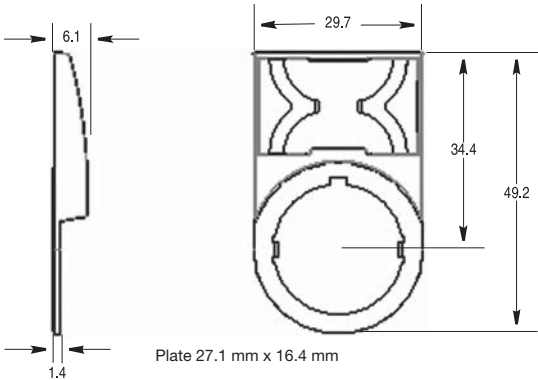
Customer Supplied Resistive Element



	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

