

Selector Switch Operators*

Operator Type	2-Position Selector Switches		3-Position Selector Switches	
				
	Maintained	Return from Right	Maintained	Return from Both
Cat. No.	800B-SM2A	800B-SR2A	800B-SM3A	800B-SB3A
Operator Type	2-Position Selector Switches		3-Position Selector Switches	
				
	Keyed, Maintained	Keyed, Return from Right	Keyed, Maintained	Keyed, Return from Both
Cat. No.	800B-KM2A	800B-KR2A	800B-KM3A	800B-KB3A

Note: Package Quantity = 1

Target Table and Operator Position

Contact Block Cat. No.	Contact Block Location	Contact Type	2-Position Target Table		3-Position Target Table		
							
800B-PS11	Top	NA	—	—	—	—	—
	Bottom	N.C.	X	O	O	X	X
		N.O.	O	X	X	O	O
800B-PS22	Top	N.C.	X	O	X	X	O
		N.O.	O	X	O	O	X
	Bottom	N.C.	X	O	O	X	X
		N.O.	O	X	X	O	O
800B-PT01	Top	NA	—	—	—	—	—
	Bottom	N.C.	X	O	O	X	X
800B-PT02	Top	N.C.	X	O	X	X	O
	Bottom		X	O	O	X	X
800B-PT11	Top	N.O.	O	X	O	O	X
	Bottom	N.C.	X	O	O	X	X

Note: X = Closed/O = Open

* To illuminate a selector switch, add either an LED or incandescent bulb. All selector switches have a clear lens. Green and red LED bulbs can be used to change the selector switch color.

Emergency Stop Operators — Non-Illuminated, Twist-to-Release (Trigger Action)‡

	Description	Pkg. Quantity	Cat. No.
 Cat. No. 800B-MT	Emergency stop operator	1	800B-MT

‡ Operator is EN ISO 13850 compliant with standard N.C. contact blocks.

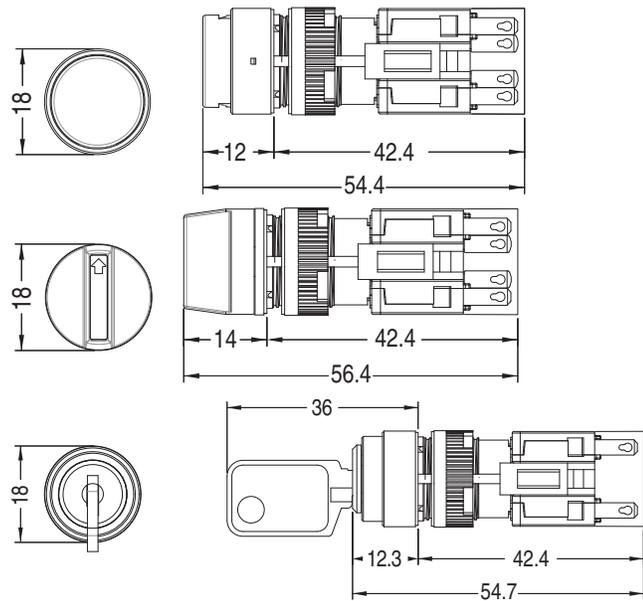
Bulletin 800B
16 mm Push Buttons
Specifications

Specifications

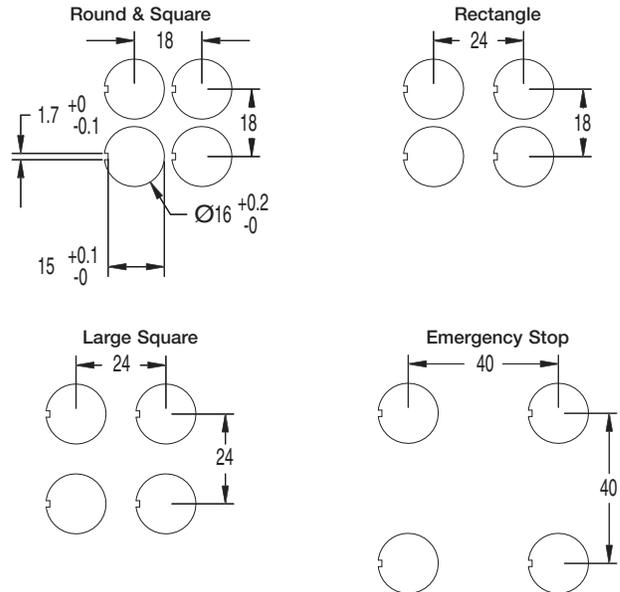
Mechanical Ratings			
Vibration (assembled to panel)	Tested at 10...2000 Hz, 1.52 mm displacement (peak-to-peak) max./10 G max. for 6 hr duration, no damage		
Shock	Tested at 1/2 cycle sine wave for 11 ms; no damage at 100 G		
Degree of protection*	IP66, Type 4/4X/13		
Mechanical durability per EN 60947-5-1 (Annex C)	2 000 000 Cycles	Push buttons – momentary	
	1 000 000 Cycles	Push buttons – maintained	
	250 000 Cycles	Selector switch	
	200 000 Cycles	Key selector switch	
	200 000 Cycles	Twist-to-release E-stop	
Operating forces (typical with one contact block)	Extended = 5...8 N E-stop = 14...16 N		
Operating torque (typical application with one contact block)	Selector switch = 0.06 N•m (0.5 lb•in)		
Mounting torque	1.1 N•m (10 lb•in)		
Environmental			
Temperature range (operating)	-25...+55 °C (-13...+131 °F)		
Temperature range (short term storage)	-40...+70 °C (-40...+158 °F)		
Humidity	50...95% RH from 25...60 °C (77...140 °F)		
Mechanical Ratings — Contact Blocks			
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	200 000 cycles (Cat. No. 800B-PS_)		
Contact operation	N.O. / N.C.	Snap action	
	N.C.	Slow make/break positive opening	
	N.O.	Slow make/break	
Push button travel to change electrical state	1.4 mm (0.06 in.)		
Operating forces (typical)	1 contact block = 3 N 2 contact blocks = 6 N		
Electrical Ratings			
Standard contact block ratings	AC 15, B300, 1.5 A/240V AC, 3 A/120V AC DC 13, R300, 0.1 A/250V DC, 0.22 A/125V DC		
LED Module ratings	Nominal Voltage	Current	Frequency
	12...24V AC	12 mA	50/60 Hz
	12...24V DC 120V AC	12 mA 9 mA	DC 50/60 Hz
Thermal current	$I_{th} = 5 \text{ A (AC)}, I_{th} = 1 \text{ A (DC)}$		
Insulation voltage (U_i)	300V		
Stab termination	2.8 X 0.5 mm		
Dielectric strength (minimum)	1500V 1 min.		
External short circuit protection – standard 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		
Illumination			
LED Dominant wavelength	Green	525 nm	
	Red	624 nm	
	White	—	
LED Luminous intensity	Green	500 mcd	
	Red	400 mcd	
	White	1000 mcd	
Incandescent maximum wattage	1.2 W		
Materials			
Springs	Stainless steel and gold-plated, high-carbon steel		
Electrical contacts	Gold-plated silver		
Stab terminals	Phosphor bronze with gold or nickel plating		
Lenses	Polycarbonate		

Approximate Dimensions

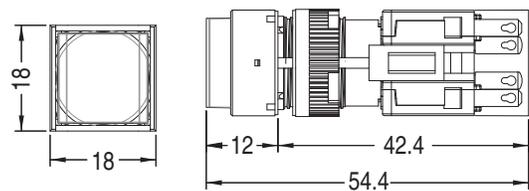
Round



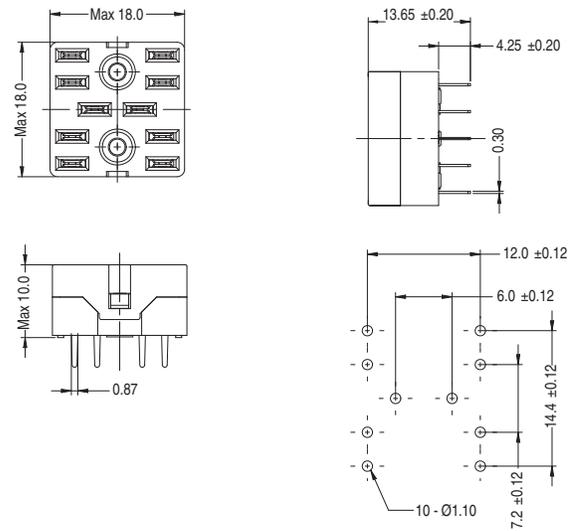
Hole Patterns



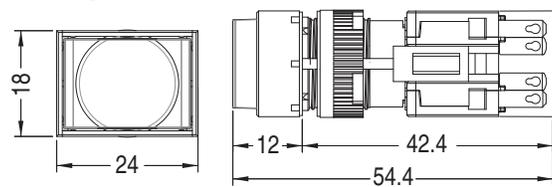
Square



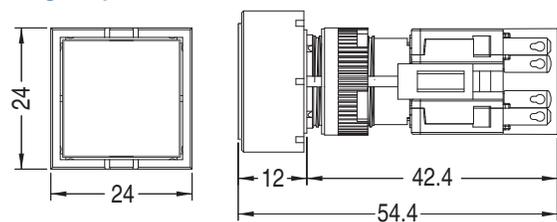
Printed Circuit Board Pin Socket



Rectangle



Large Square



Emergency Stop

