

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
	1 000 000 Cycles
	250 000 Cycles
	200 000 Cycles
	200 000 Cycles
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)

† Keyed selector switches do not meet 4X rating.

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.
	N.C.
	N.O.
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
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

Standards Compliance and Certifications

Certifications	UR, CSA, CCC, CE
Standards Compliance	UL 508, EN ISO 13850, EN 60947-1, EN 60947-5-1, EN 60947-5-5
Terminal Identification	EN/IEC 60947-1
RoHS Compliant	✓

Operator Assembly Sequence



★ Optional

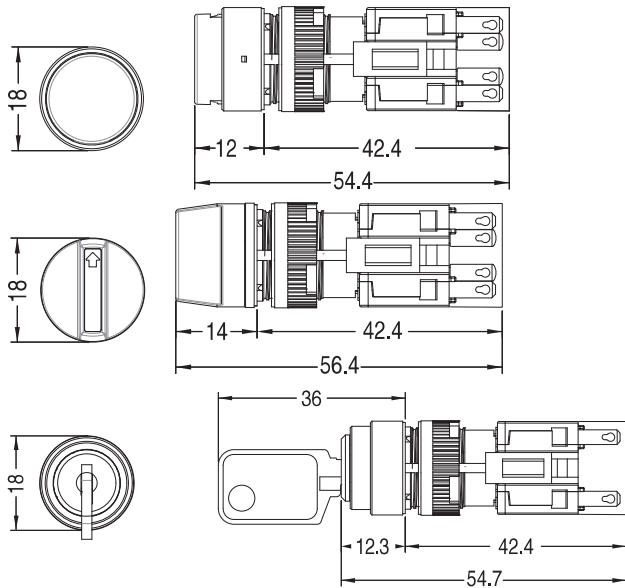
Target Table and Operator Position

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

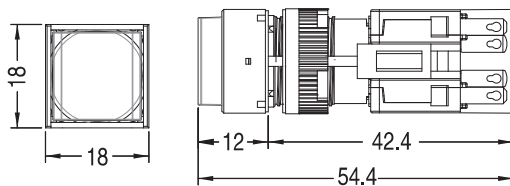
Note: X = Closed/O = Open

Note: 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.

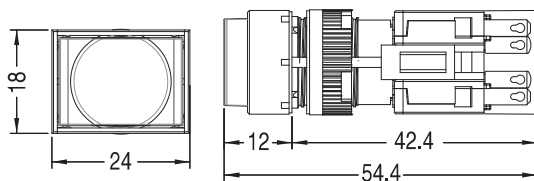
Round



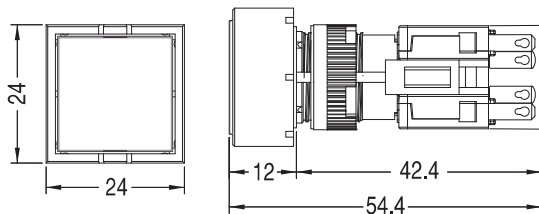
Square



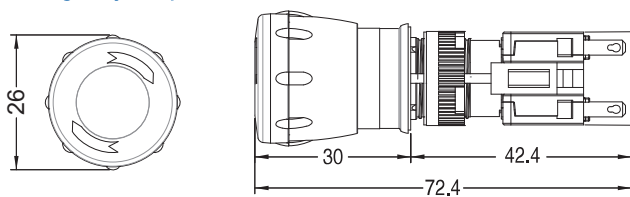
Rectangle



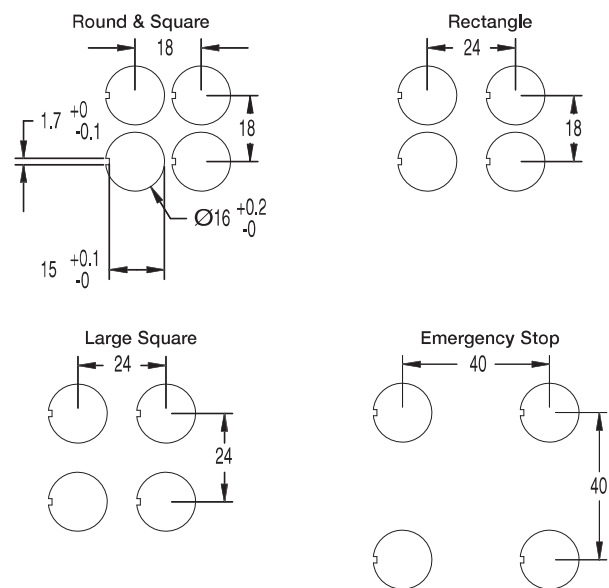
Large Square



Emergency Stop



Hole Patterns



Printed Circuit Board Pin Socket

