

RoHS Compliant



ES

Illuminated Pushbutton

Specifications

Electrical Ratings	125mA @ 50VDC				
	125mA @ 125VAC				
Electrical Life	500,000 cycles				
Mechanical Life	1,000,000 cycles				
Contact Resistance	≤ 50mΩ initial				
Dielectric Strength	1,000Vrms min				

Actuation Force	300 ± 100gF
Actuation Travel	1.5 ± .25mm
Insulation Resistance	≥ 1000MΩ min
Sealing	IP67
Operating Temperature	-30°C (-40°C without LED) to 85°C
Storage Temperature	-30°C (-40°C without LED) to 85°C

Materials

Actuator	6/6 Nylon			
Housing	6/6 Nylon			
Base	Diallyl Phthalate (DAP)			
Contacts Copper Alloy, Gold over Silver plated				
Terminals	Copper Alloy, Gold over Silver plated			

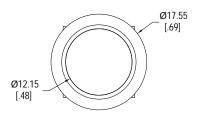
Ordering Information

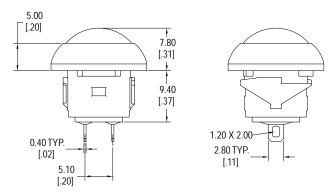
1. Series ES		IN	IVI	_	 Ö		GB
2. Contact Configurat A = SPST N.O. B = SPST N.C. **No.							
3. Switch Function N = Momentary							
4. Housing / Actuator M = Matte	Finish						
5. Actuator Style D = Round, no LED F = Round with flat L = Round with flat,	, no LED						
6. Actuator Color 1 = White 2 = Black 3 = Red 4 = Yellow	5 = Green 6 = Orange 7 = Blue 8 = Dark Gra	у					
7. Bushing F = Snap-In (0.8 ~ G = 12 x 0.75 SI Th		el)					
8. Terminals B = Solder Lug						-	
9. LED Color X = no LED R = Red Y = Yellow G = Green	PG = Pure G B = Blue W = White	reen	RY = Red/Yell RG = Red/Gre RB = Red/Blu YG = Yellow C	een dual LED	YB = Yellow/B GB = Green/B		



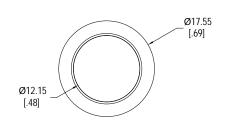
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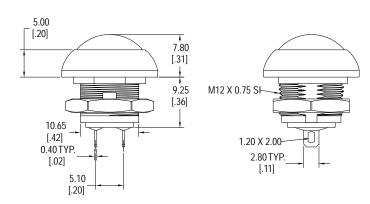
Actuator Styles





D = Round Actuator with no LED F = Snap-In Bushing

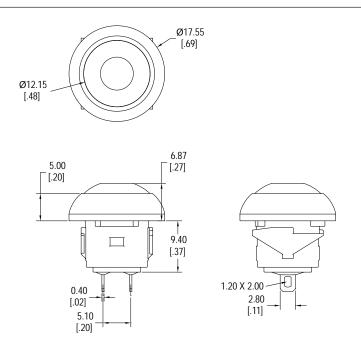




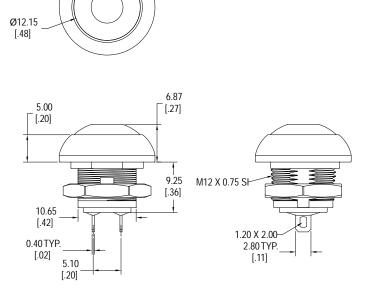
D = Round Actuator with no LED G = Threaded Bushing

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F = Flat, Round Actuator with no LED F = Snap-In Bushing

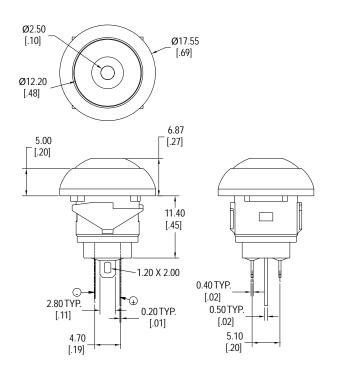


F = Flat, Round Actuator with no LED G = Threaded Bushing

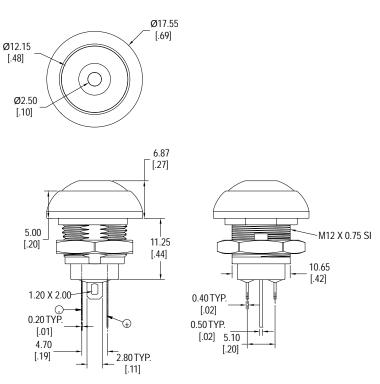


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Actuator Styles

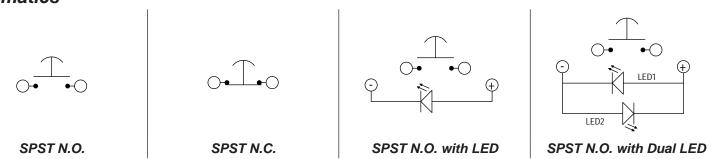


L = Flat, Round Actuator with LED F = Snap-In Bushing



L = Flat, Round Actuator with LED G = Threaded Bushing

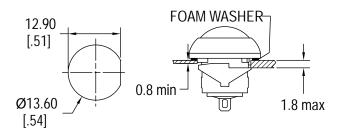
Schematics



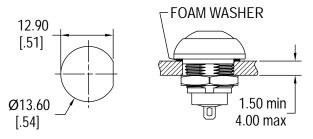


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Panel Cut Out



F = Snap-In Bushing



G = Threaded Bushing

LED Characteristics

LED Ratings		Color						
		R	Υ	G	В	0	W	Units
Reverse Voltage	V_R	5	5	5	5	5	5	V
Forward Curent (avg)	I _F	30	30	30	30	30	30	mA
Forward Current (peak)	I _{FS}	100	100	100	100	100	100	mA
Reverse Current V _R = 5V	I _R	100	100	100	100	100	1	μA
Power Dissipation	P _T	80	100	100	120	120	120	mW
Operating & Storage Temperature	T _A	-30 ~ +85 C					C°	
Forward Voltage (typ) I _F = 20mA	V _F	2.1	2.1	2.0	3.2	3.2	3.2	V
Forward Voltage (max) I _F = 20mA	V _F	2.6	2.6	2.6	3.6	3.6	3.6	V
Wavelength at Peak Emmission I _F = 20mA	λ_{P}	645	590	570	470	525	n/a	nm
Spectral Line Half-Width I _F = 20mA	Δλ	22	15	30	30	30	n/a	nm
Luminous Intensity, I _F = 20mA	LI	100	200	100	150	300	250	mcd
Viewing Angle	Θ	35	35	35	35	35	35	deg