

Specifications

Electrical Ratings	1A @ 24VDC 1A @ 125VAC 0.5A @ 250VAC
Sealing Degree	IP67
Electrical Life	50,000 cycles typical
Contact Resistance	≤ 50mΩ initial

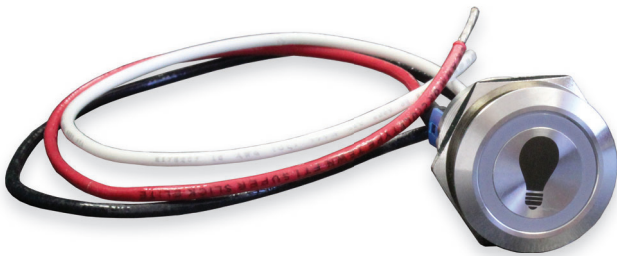
Actuation Force	550 ±50gF
Actuation Travel	2.5 ± .3mm
Dielectric Strength	2000Vrms min contact to contact 2000Vrms min contact to LED
Insulation Resistance	≥ 100MΩ min
Operating Temperature	-25°C to 70°C
Storage Temperature	-25°C to 70°C

Materials

Actuator	Stainless Steel or Anodized Aluminum
LED Lens	Polycarbonate (PC)
Threaded Body	Stainless Steel or Anodized Aluminum
Terminal Support	Polybutylene Terephthalate (PBT)
Inner Switch Body	Polycarbonate (PC)
Contacts	Gold Plate over Silver
Terminals	Gold Plate over Nickel Plate over Copper Alloy
Hardware	One Hex Nut & One “O” Ring Supplied

Custom Capabilities Contact Factory

Cable Assemblies



Shine Through Symbols



Custom Laser Etching



Custom Plastic Convex Actuators

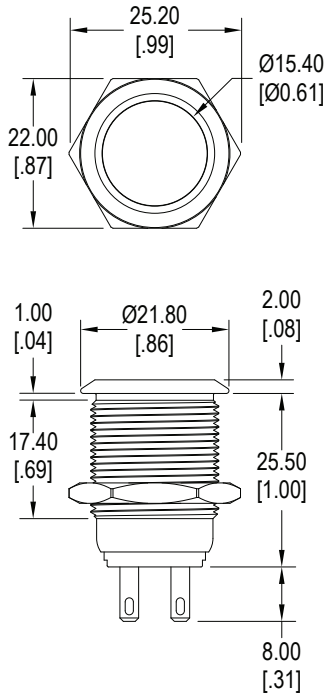


Ordering Information

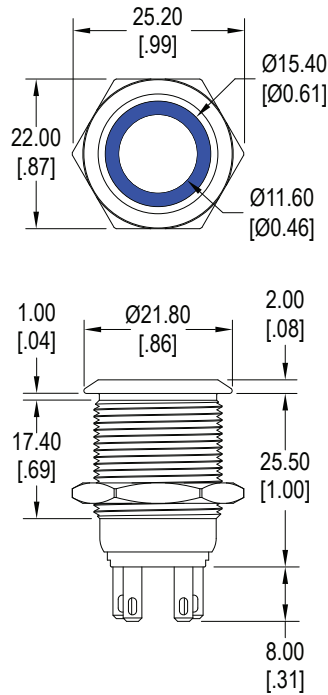
1. Series	AH	1	N	A	S	X	
AH							
2. Number of Poles							
1 = SPST NO +SPST NC							
3. Latching Option							
N = Momentary							
L = Latching							
4. Actuator Style:							
A = Flush actuator, non-illuminated							
B = Flush actuator, ring illuminated							
C = Flush actuator, dot illuminated							
G = Flush actuator, international standby symbol*							
*contact factory for G, R, U or Y finish options							
MR = Mushroom actuator, red anodized aluminum							
EC = Epoxy Convex actuator, contact factory for details							
5. Switch Finish							
S = Stainless Steel							
B = Black Anodized Aluminum							
G = Green Anodized Aluminum							
R = Red Anodized Aluminum							
U = Blue Anodized Aluminum							
Y = Yellow Anodized Aluminum							
6. LED Color							
X = No LED							
R = Red							
Y = Yellow							
G = Green							
B = Blue							
W = White							
O = Orange							
RO = Red / Orange dual LED							
RY = Red / Yellow dual LED							
RG = Red / Green dual LED							
RB = Red / Blue dual LED							
OY = Orange / Yellow dual LED							
OG = Orange / Green dual LED							
OB = Orange / Blue dual LED							
YG = Yellow / Green dual LED							
YB = Yellow / Blue dual LED							
GB = Green / blue dual LED							
* Contact Factory for other LED options							
7. LED Voltage							
Blank = No LED							
6 = 6VDC							
12 = 12VDC							
24 = 24VDC							
110 = 110VAC							
220 = 220VAC							
N = No internal resistor in series with the LED							
8. Terminal Option							
Blank = .100" Quick Connect, standard							
T = Screw Terminals							

Dimensions - Momentary Function

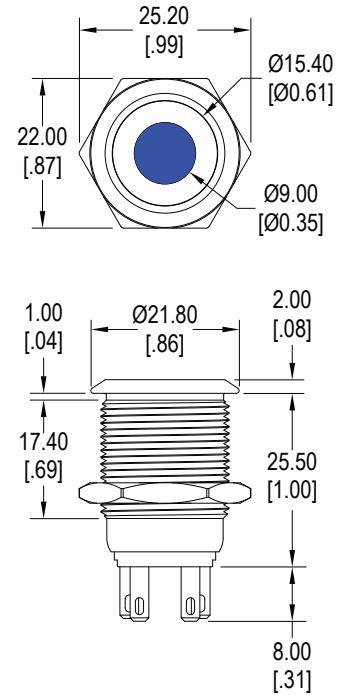
A Actuator



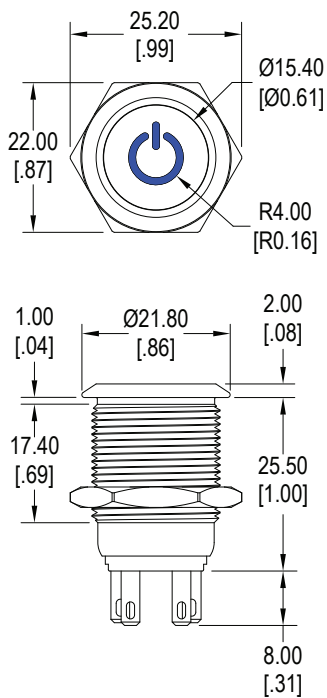
B Actuator



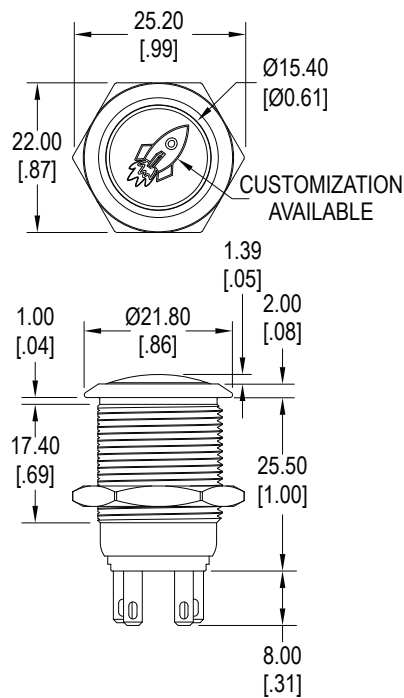
C Actuator



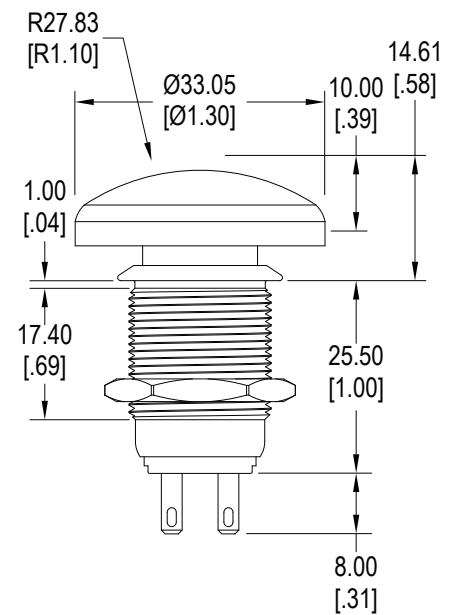
G Actuator



EC Actuator

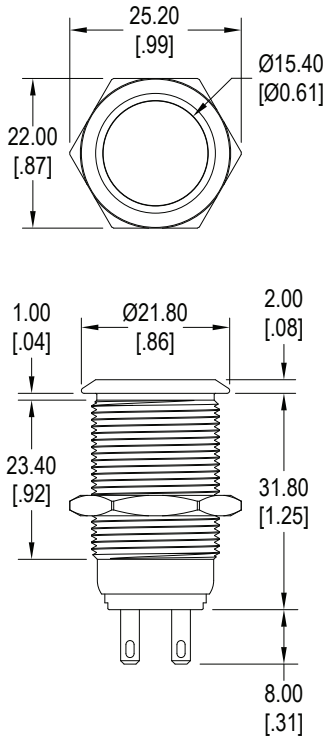


MR Actuator

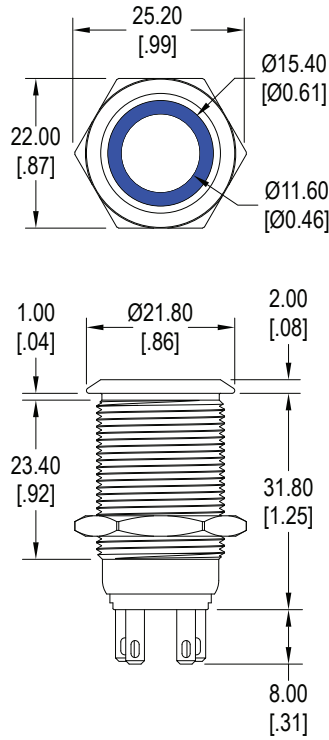


Dimensions - Latching Function

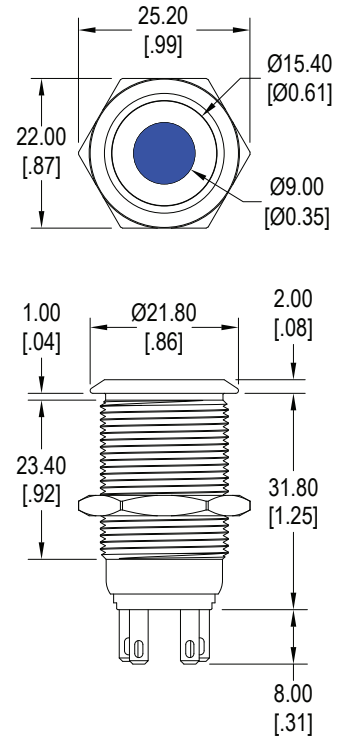
A Actuator



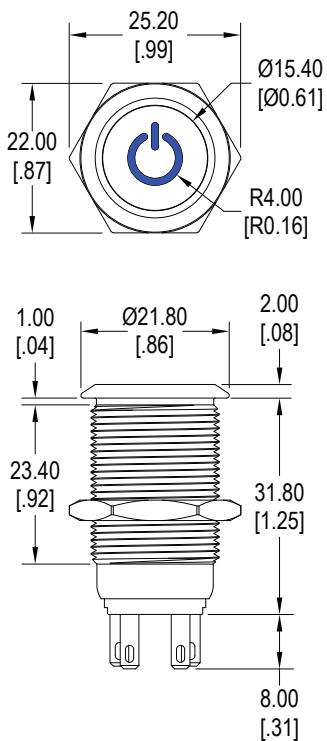
B Actuator



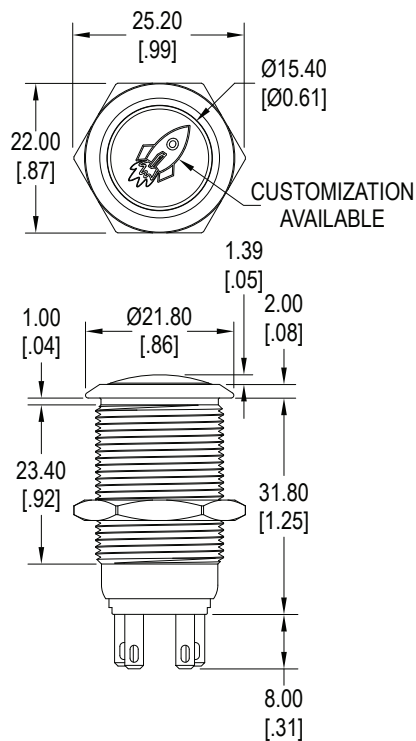
C Actuator



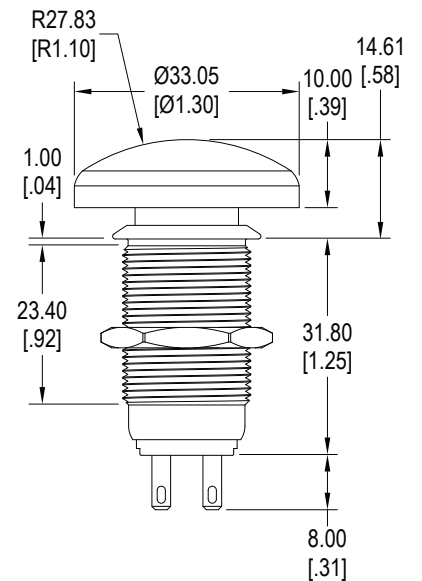
G Actuator



EC Actuator

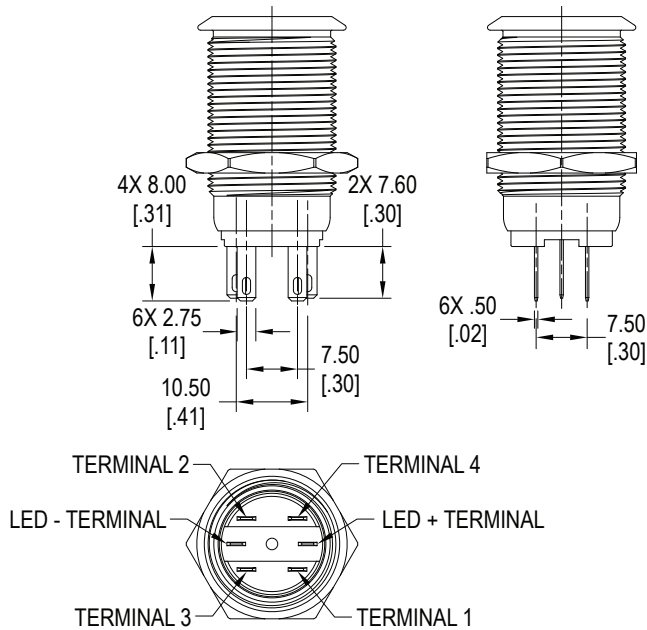


MR Actuator

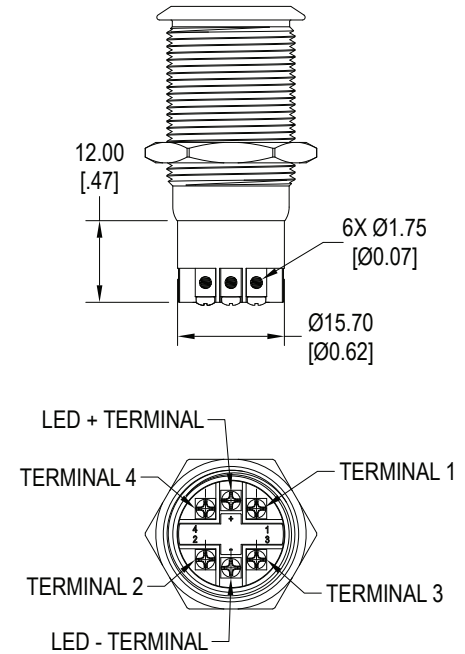


Termination

.100" Quick Connect, standard

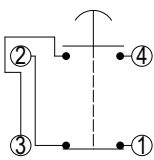


Screw Terminals

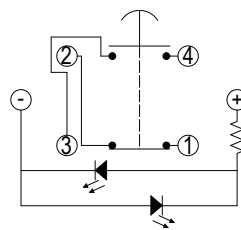


Schematics

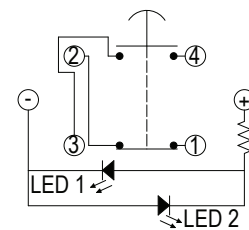
SPST NO + SPST NC, No LED



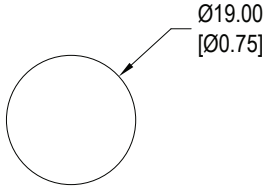
SPST NO + SPST NC, Single Color LED



SPST NO + SPST NC, Dual Color LED



Panel Cut-Out



LED Characteristics

LED Ratings		Color						Units
		R	Y	G	B	O	W	
Reverse Voltage	V_R	5	5	5	5	5	5	V
Forward Current (avg)	I_F	25	25	30	30	25	30	mA
Forward Current (peak)	I_{FS}	120	120	160	160	120	160	mA
Reverse Current $V_R = 5V$	I_R	10	10	10	10	10	10	μA
Power Dissipation	P_T	80	80	120	120	80	120	mW
Operating & Storage Temperature	T_A	-40 ~ +85						C°
Forward Voltage (typ) $I_F = 20mA$	V_F	2.1	2.1	3.3	3.3	2.0	3.0	V
Forward Voltage (max) $I_F = 20mA$	V_F	2.4	2.5	3.6	3.6	2.3	3.6	V
Wavelength at Peak Emission $I_F = 20mA$	λ_P	635	592	516	463	606	n/a	nm
Spectral Line Half-Width $I_F = 20mA$	$\Delta\lambda$	14	12	28	20	12	n/a	nm
Luminous Intensity, $I_F = 20mA$	LI	120	120	170	100	120	700	mcd
Viewing Angle	Θ	145	145	145	145	145	145	deg