



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	
2. Number of Poles							
3. Latching Option							
4. Actuator Style:							
5. Switch Finish							
6. LED Color							
7. LED Voltage							
8. Terminal Option							

1 = SPST NO +SPST NC

N = Momentary
L = Latching

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

S = Stainless Steel
B = Black Anodized Aluminum
G = Green Anodized Aluminum
R = Red Anodized Aluminum
U = Blue Anodized Aluminum
Y = Yellow Anodized Aluminum

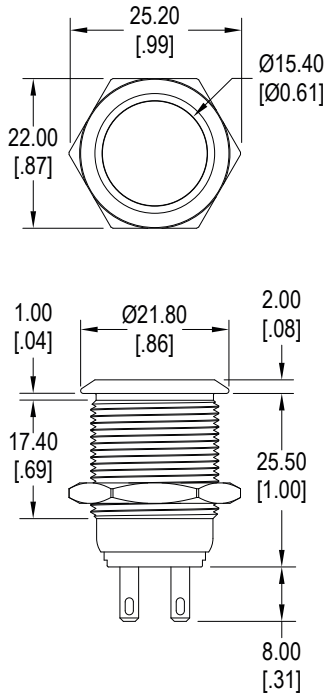
RO = Red / Orange dual LED
RY = Red / Yellow dual LED
RG = Red / Green dual LED
RB = Red / Blue dual LED
OY = Orange / Yellow dual LED
OG = Orange / Green dual LED
OB = Orange / Blue dual LED
YG = Yellow / Green dual LED
YB = Yellow / Blue dual LED
GB = Green / blue dual LED * Contact Factory for other LED options

Blank = No LED
6 = 6VDC
12 = 12VDC
24 = 24VDC
110 = 110VAC
220 = 220VAC
N = No internal resistor in series with the LED

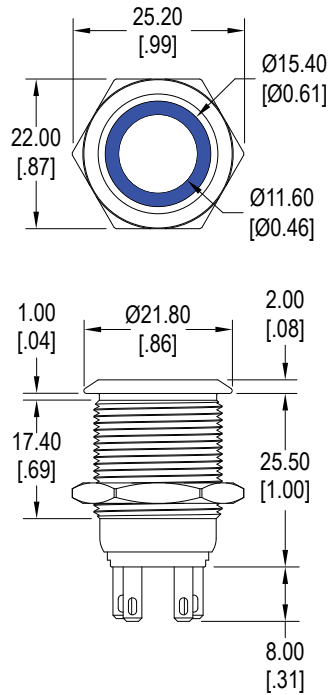
Blank = .100" Quick Connect, standard
T = Screw Terminals

Dimensions - Momentary Function

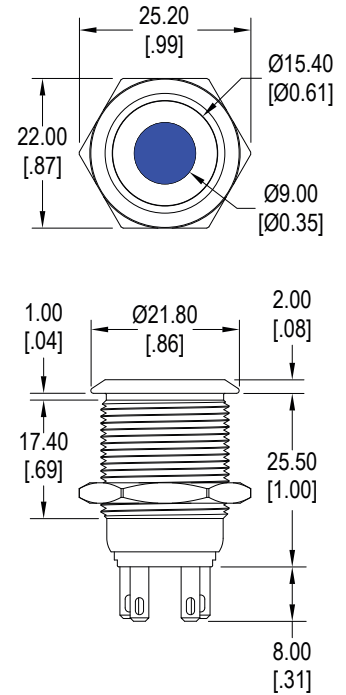
A Actuator



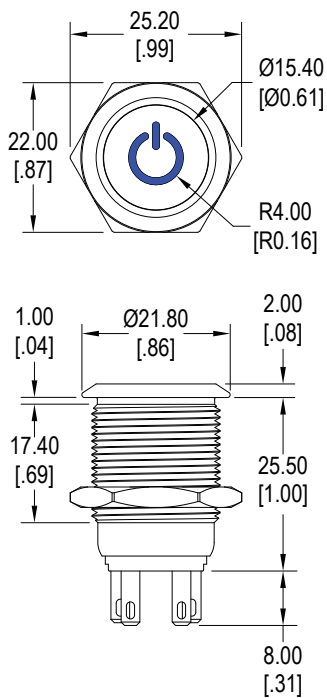
B Actuator



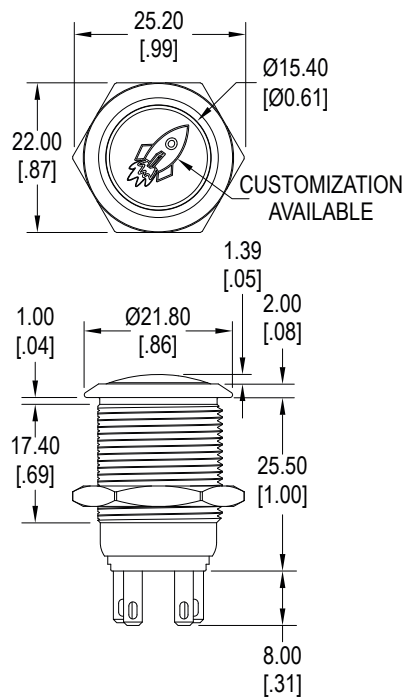
C Actuator



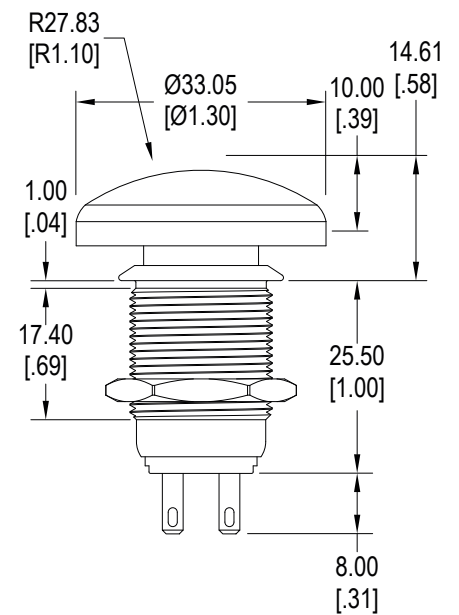
G Actuator



EC Actuator

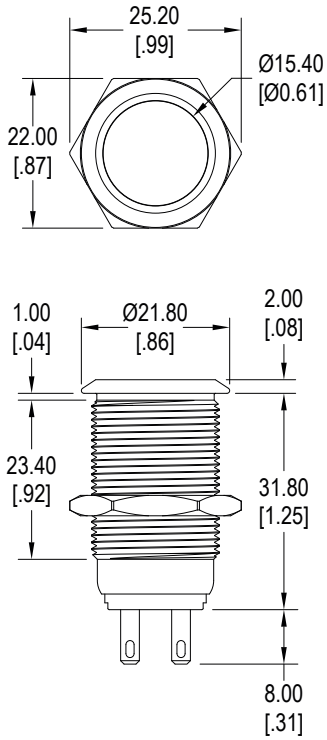


MR Actuator

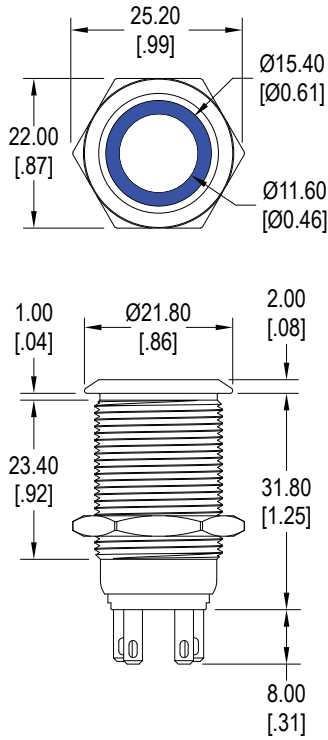


Dimensions - Latching Function

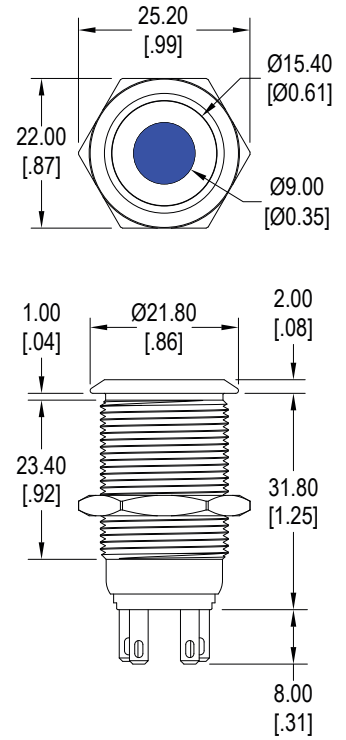
A Actuator



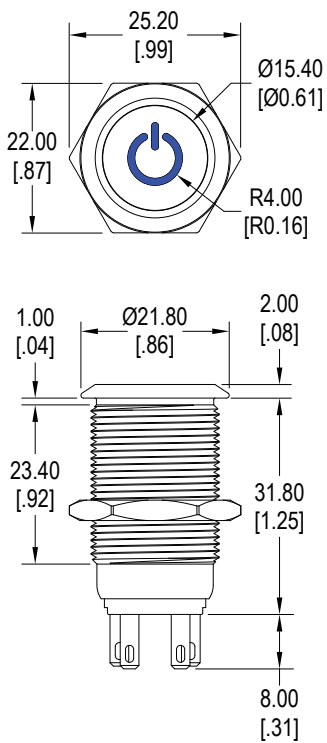
B Actuator



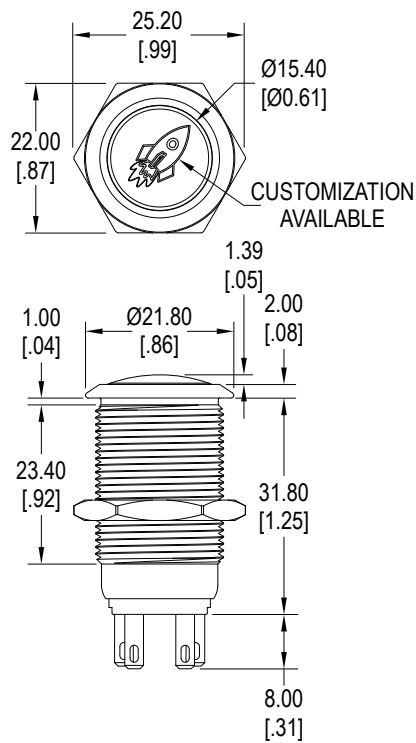
C Actuator



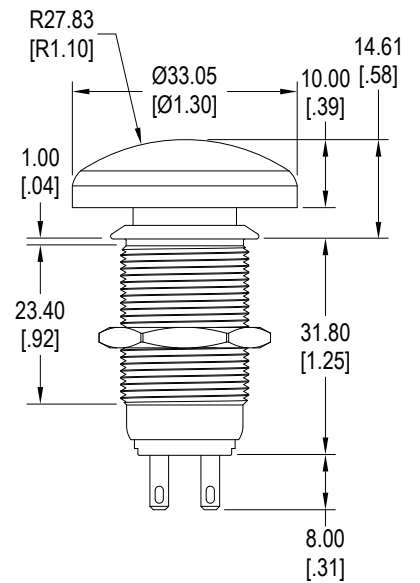
G Actuator



EC Actuator

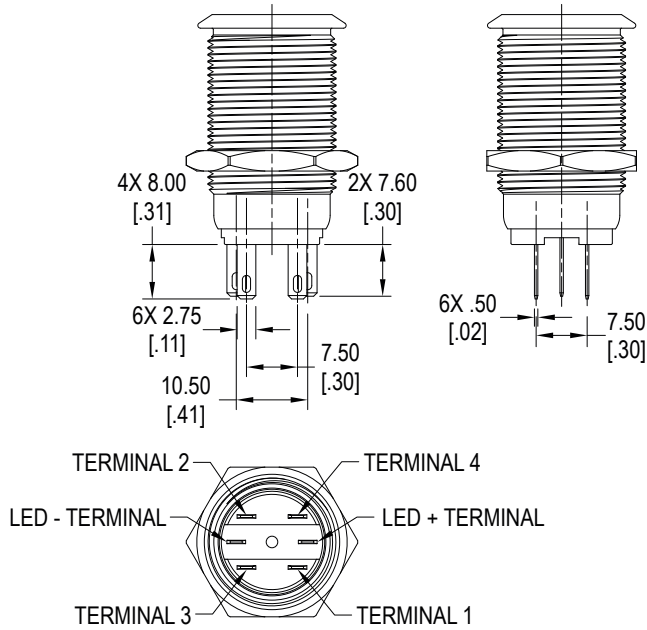


MR Actuator

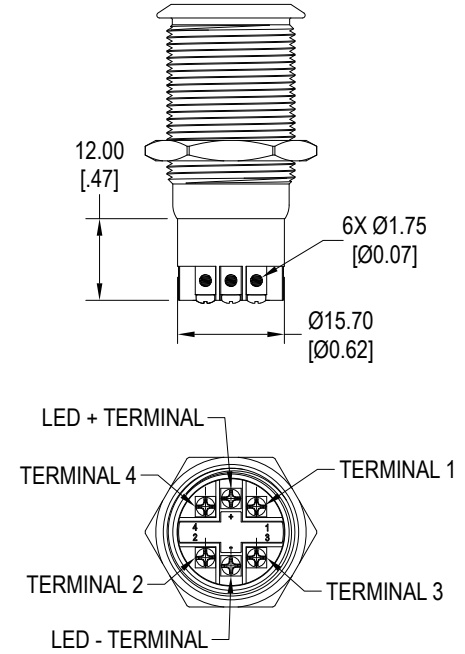


Termination

.100" Quick Connect, standard

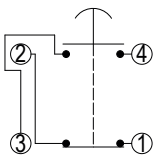


Screw Terminals

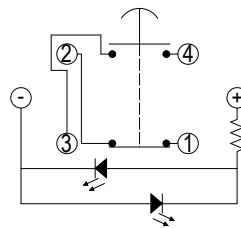


Schematics

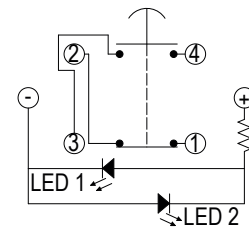
SPST NO + SPST NC, No LED



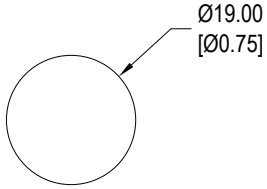
SPST NO + SPST NC, Single Color LED



SPST NO + SPST NC, Dual Color LED



Panel Cut-Out



LED Characteristics

LED Ratings		Color						
		R	Y	G	B	O	W	Units
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