





Specifications

Electrical Ratings	20A @ 12VDC, resistive, 25K cycles
	10A @ 24VDC, resistive, 100K cycles
	15A @ 24VDC, resistive, 25K cycles
	10A @ 125VAC, resistive, 25K cycles
	5A @ 250VAC, resistive, 25K cycles
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	$\geq 100 M\Omega$ min
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°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





Shine Through Symbols





Custom Laser Etching





Custom Plastic Convex Actuators





Ordering Information

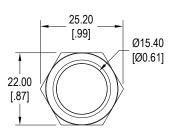
Oraering	intormatic	on					
1. Series AH	АН	1	N	А	S	Х	
2. Number of P 1 = SPST NO	oles O +SPST NC						
3. Latching Op N = Momenta L = Latching							
B = Flush ac C = Flush ac G = Flush ac *contact fact MR = Mushro	le: tuator, non-illum tuator, ring illum tuator, dot illumi tuator, internatio tory for G, R, U or Y finis oom actuator, re Convex actuato	inated nated onal standby syn sh options ed anodized alun	ninum				
SM = Stainle B = Black An G = Green A R = Red And U = Blue And	h s Steel (SUS 30- ess Steel 316 (S nodized Aluminu nodized Aluminum odized Aluminum nodized Aluminun	US 316L) m um ı ı					
6. LED Color X = No LED R = Red Y = Yellow G = Green B = Blue W = White O = Orange		OG = Orange / OB = Orange /	low dual LED een dual LED le dual LED Yellow dual LED Green dual LED Blue dual LED Green dual LED Green dual LED		r other LED options		
7. LED Voltage Blank = No L 6 = 6VDC 12 = 12VDC 24 = 24VDC 110 = 110VA 220 = 220VA N = No intern	.ED .C	ries with the LEI	0				
T = Screw Te WA1 = Wire	" Quick Connec	Γ N.O.					

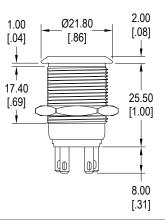
WA2 = Wire Assembly, SPDT



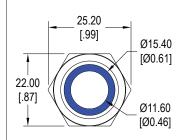
Dimensions - Momentary Function

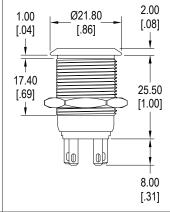
A Actuator



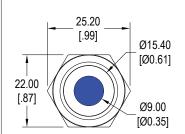


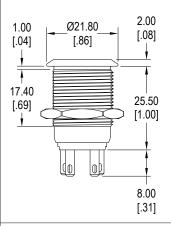
B Actuator



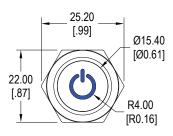


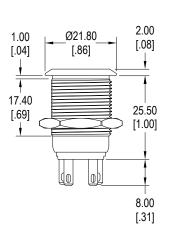
C Actuator



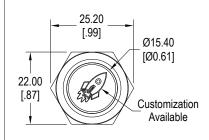


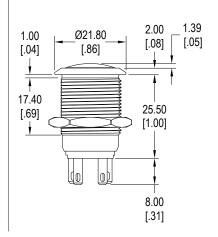
G Actuator



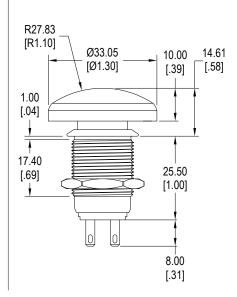


EC Actuator





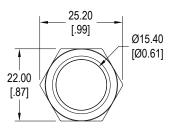
MR Actuator

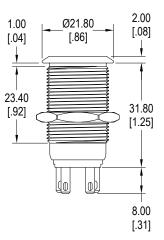




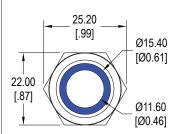
Dimensions - Latching Function

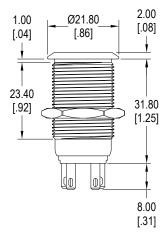
A Actuator



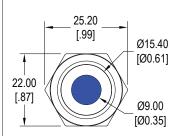


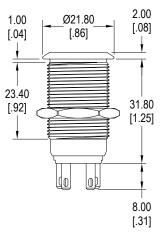
B Actuator



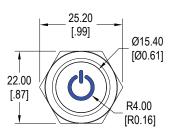


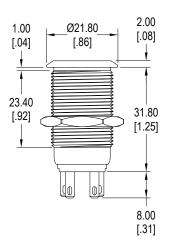
C Actuator



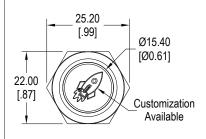


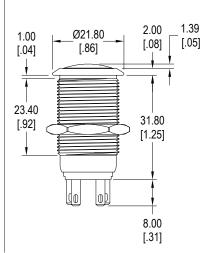
G Actuator





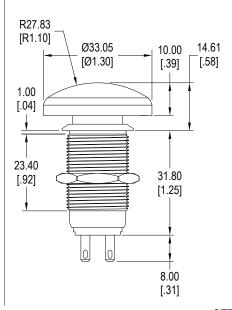
EC Actuator





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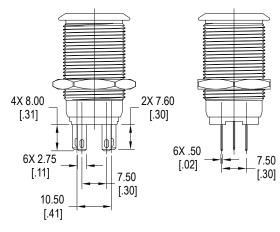
MR Actuator

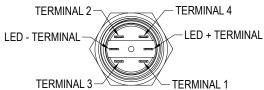




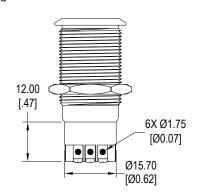
Termination

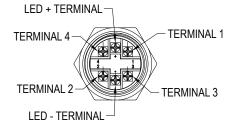
.100" Quick Connect, standard





Screw Terminals

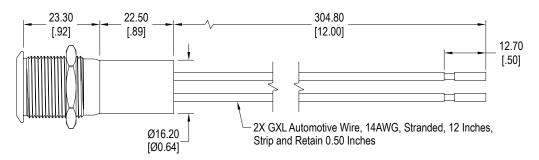




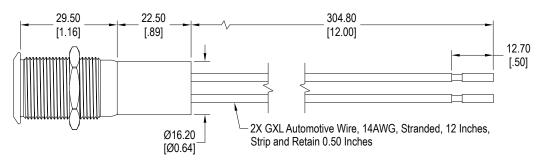


Termination

WA1, Wire Assembly, SPST N.O. Momentary Function, Non-Illuminated



Latching Function, Non-Illuminated



Wire Configuration					
Switch Terminal Wire Color					
Terminal 3	Black				
Terminal 4	Black				

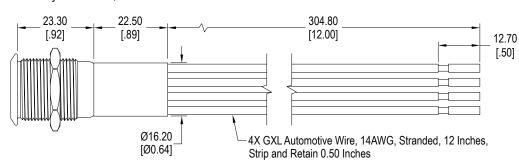




Termination

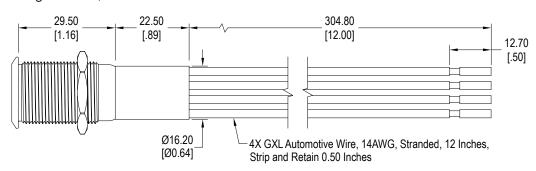
WA1, Wire Assembly, SPST N.O.

Momentary Function, Illuminated

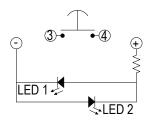




Latching Function, Illuminated



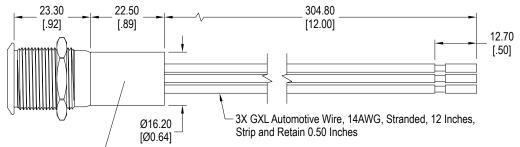
Wire Configuration					
Switch Terminal Wire Color					
LED + Terminal Orange					
LED - Terminal	Black				
Terminal 3	Red				
Terminal 4	Brown				





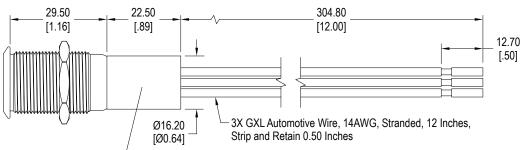
Termination

WA2, Wire Assembly, SPDT, Non-Illuminated Momentary Function



Jumper Wire, GXL Automotive Wire, 14AWG Stranded, Connected to Terminal 2 & Terminal 4 Hidden inside epoxy shell

Latching Function



Jumper Wire, GXL Automotive Wire, 14AWG, Stranded, Connected to Terminal 2 & Terminal 4 Hidden inside epoxy shell

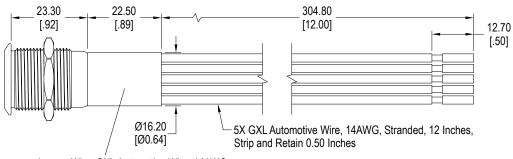
Wire Configuration					
Switch Terminal Wire Color					
Terminal 1	White				
Terminal 2	Blue				
Terminal 3	Green				





Termination

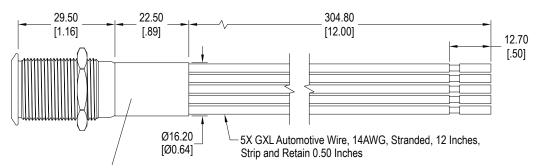
WA2, Wire Assembly, SPDT, Illuminated Momentary Function





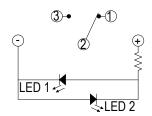
Jumper Wire, GXL Automotive Wire, 14AWG Stranded, Connected to Terminal 2 & Terminal 4 Hidden inside epoxy shell

Latching Function



Jumper Wire, GXL Automotive Wire, 14AWG Stranded, Connected to Terminal 2 & Terminal 4 Hidden inside epoxy shell

Wire Configuration					
Switch Terminal	Wire Color				
LED + Terminal	Red				
LED - Terminal	Black				
Terminal 1	White				
Terminal 2	Blue				
Terminal 3	Green				



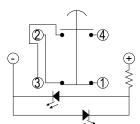


Schematics

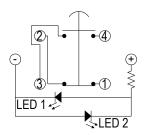
SPST NO + SPST NC, No LED



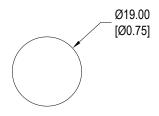
SPST NO + SPST NC, Single Color LED



SPST NO + SPST NC, Dual Color LED



Panel Cut-Out



LED Characteristics

LED Ratings		Color							
		R	Υ	G	В	0	W	Units	
Reverse Voltage	V _R	5	5	5	5	5	5	V	
Forward Curent (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				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 Emmission I _F = 20mA	λ _P	635	592	516	463	606	n/a	nm	
Spectral Line Half-Width I _F = 20mA	Δλ	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	