



Illuminated Anti-Vandal Pushbutton – 10mm

Specifications

Electrical Ratings	2A @ 48VDC	Actuation Force	350 ± 100gF
Sealing Degree	IP40	Dielectric Strength	1500Vrms min contact to contact 1500Vrms min contact to LED
Electrical Life	50,000 cycles average	Insulation Resistance	> 100MΩ min @ 500VDC
Mechanical Life	100,000 cycles average	Operating Temperature	-25°C to 55°C
Contact Resistance	≤ 50mΩ initial	Storage Temperature	-25°C to 55°C

Materials

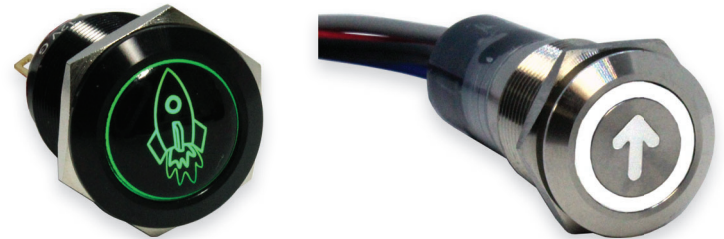
Actuator	Stainless Steel or Aluminum
LED Lens	Polycarbonate (PC)
Threaded Body	Stainless Steel or Aluminum
Terminal Support	Polybutylene Terephthalate (PBT)
Contacts	Silver Alloy
Terminals	Brass, Silver Plated
Hardware	One Hex Nut & One “O” Ring Supplied

Custom Capabilities Contact Factory

Cable Assemblies



Shine Through Symbols



Custom Laser Etching



Custom Plastic Convex Actuators

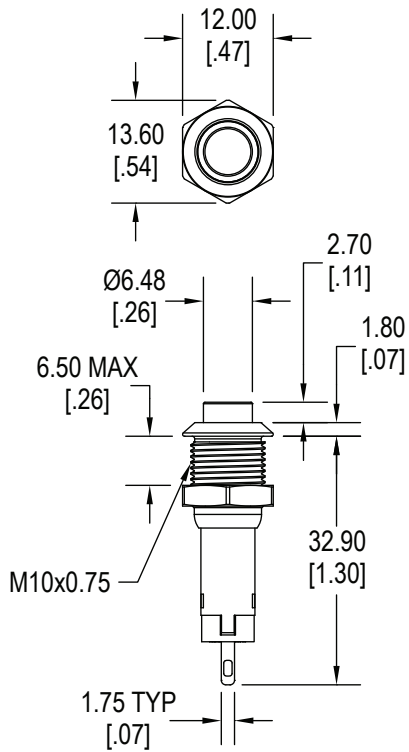


Ordering Information

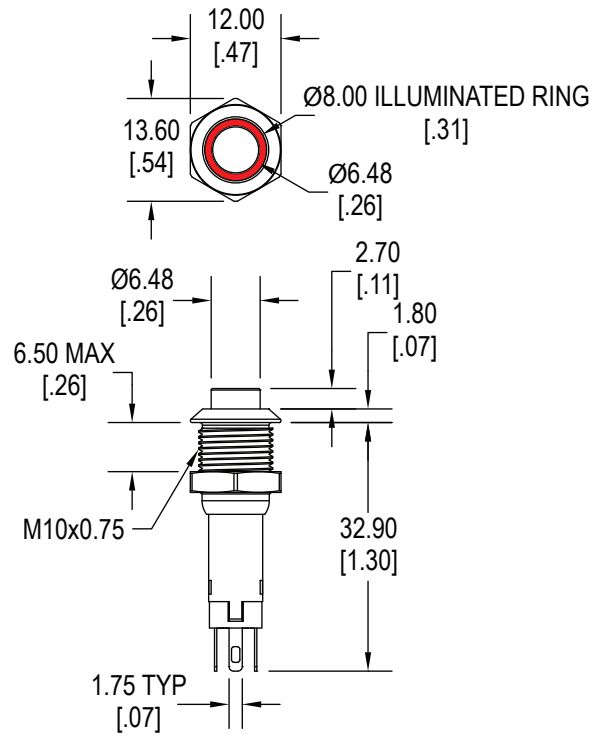
1. Series	GH	N	D	B	B	G																				
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2. Bezel Style	Blank = Standard Bezel																									
3. Switch Function	N = Momentary L = Latching																									
4. Actuator Style:	D = Raised actuator, non-illuminated E = Raised actuator, ring illuminated																									
5. Switch Finish	B = Black Anodized Aluminum G = Green Anodized Aluminum R = Red Anodized Aluminum S = Brushed Stainless Steel U = Blue Anodized Aluminum Y = Yellow Anodized Aluminum																									
6. Terminal Options	B = Solder Lugs																									
7. LED Color	<table border="0"> <tr> <td>X = No LED</td> <td>RO = Red / Orange dual LED</td> </tr> <tr> <td>R = Red</td> <td>RY = Red / Yellow dual LED</td> </tr> <tr> <td>Y = Yellow</td> <td>RG = Red / Green dual LED</td> </tr> <tr> <td>G = Green</td> <td>RB = Red / Blue dual LED</td> </tr> <tr> <td>B = Blue</td> <td>OY = Orange / Yellow dual LED</td> </tr> <tr> <td>W = White</td> <td>OG = Orange / Green dual LED</td> </tr> <tr> <td>O = Orange</td> <td>OB = Orange / Blue dual LED</td> </tr> <tr> <td></td> <td>YG = Yellow / Green dual LED</td> </tr> <tr> <td></td> <td>YB = Yellow / Blue dual LED</td> </tr> <tr> <td></td> <td>GB = Green / Blue dual LED</td> </tr> </table>						X = No LED	RO = Red / Orange dual LED	R = Red	RY = Red / Yellow dual LED	Y = Yellow	RG = Red / Green dual LED	G = Green	RB = Red / Blue dual LED	B = Blue	OY = Orange / Yellow dual LED	W = White	OG = Orange / Green dual LED	O = Orange	OB = Orange / Blue dual LED		YG = Yellow / Green dual LED		YB = Yellow / Blue dual LED		GB = Green / Blue dual LED
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8. LED Voltage	Blank = No LED N = No internal resistor in series with the LED																									

Dimensions

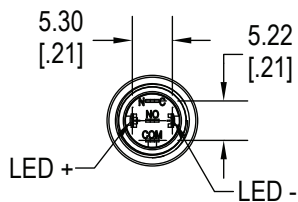
D Actuator



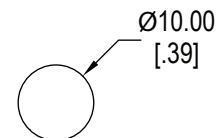
E Actuator



Bottom View

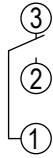


Panel Cut-Out

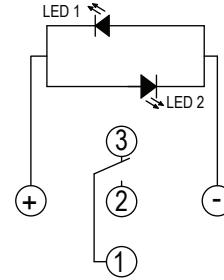


Schematics

Non-Illuminated



Dual Color LED



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 Emmission $I_F = 20mA$	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