



RoHS Compliant

Illuminated Pushbutton - 10mm

## Specifications

Electrical Ratings	2A @ 48VDC
Sealing Degree	IP40
Electrical Life	50,000 cycles average
Mechanical Life	100,000 cycles average
Contact Resistance	$\leq 50\text{m}\Omega$ initial

Actuation Force	$350 \pm 100\text{gF}$
Dielectric Strength	1500Vrms min contact to contact 1500Vrms min contact to LED
Insulation Resistance	$> 100\text{M}\Omega$ min @ 500VDC
Operating Temperature	-25°C to 55°C
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, Sliver Plated
Hardware	One Hex Nut & One "O" Ring Supplied

## Ordering Information

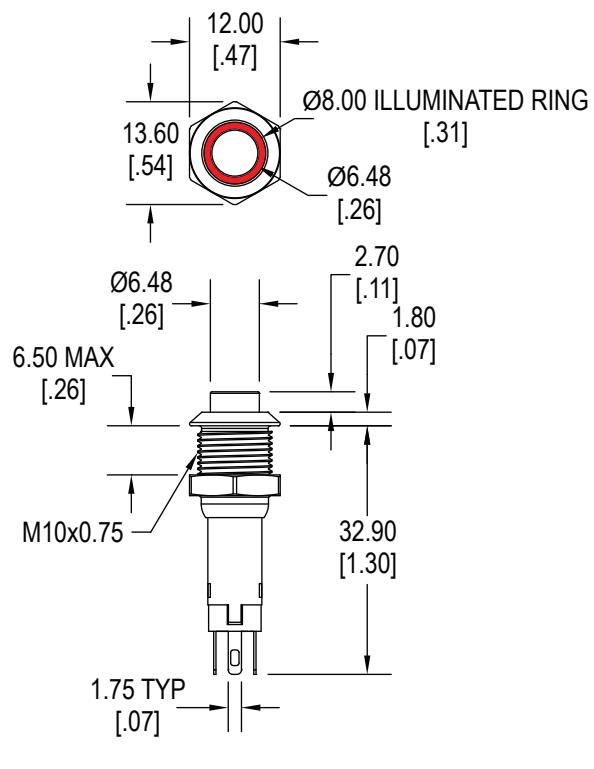
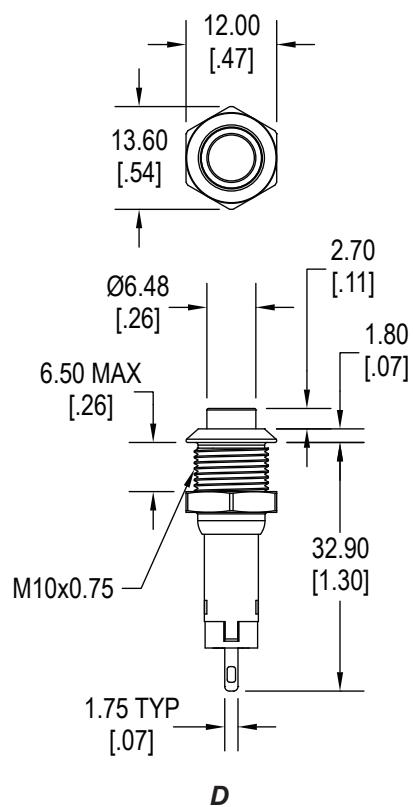
1. Series	GH	N	D	B	B	G	
GH							
2. Bezel Style							
Blank = Standard Bezel							
3. Switch Function							
N = Momentary							
L = Latching							
4. Actuator Style:							
D = Raised actuator, non-illuminated							
E = Raised actuator, ring illuminated							
5. Switch Finish							
B = Black 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							
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						
8. LED Voltage							
Blank = No LED							
N = No internal resistor in series with the LED							

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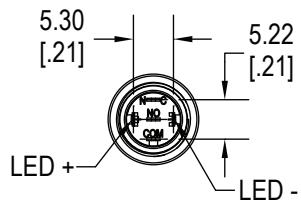
GH

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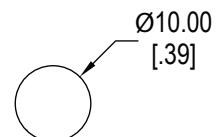
## ***Dimensions***



### ***Bottom View***

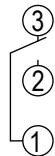


## ***Panel Cut-Out***

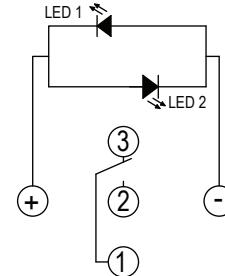


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**Schematics**



**No LED**



**Dual Color LED**

**LED Characteristics**

LED Ratings	V <sub>R</sub>	Color						Units
		R	Y	G	B	O	W	
Reverse Voltage	V <sub>R</sub>	5	5	5	5	5	5	V
Forward Current (avg)	I <sub>F</sub>	25	25	30	30	25	30	mA
Forward Current (peak)	I <sub>FS</sub>	120	120	160	160	120	160	mA
Reverse Current V <sub>R</sub> = 5V	I <sub>R</sub>	10	10	10	10	10	10	µA
Power Dissipation	P <sub>T</sub>	80	80	120	120	80	120	mW
Operating & Storage Temperature	T <sub>A</sub>	-40 ~ +85						C°
Forward Voltage (typ) I <sub>F</sub> = 20mA	V <sub>F</sub>	2.1	2.1	3.3	3.3	2.0	3.0	V
Forward Voltage (max) I <sub>F</sub> = 20mA	V <sub>F</sub>	2.4	2.5	3.6	3.6	2.3	3.6	V
Wavelength at Peak Emission I <sub>F</sub> = 20mA	λ <sub>P</sub>	635	592	516	463	606	n/a	nm
Spectral Line Half-Width I <sub>F</sub> = 20mA	Δλ	14	12	28	20	12	n/a	nm
Luminous Intensity, I <sub>F</sub> = 20mA	L <sub>I</sub>	120	120	170	100	120	700	mcd
Viewing Angle	Θ	145	145	145	145	145	145	deg