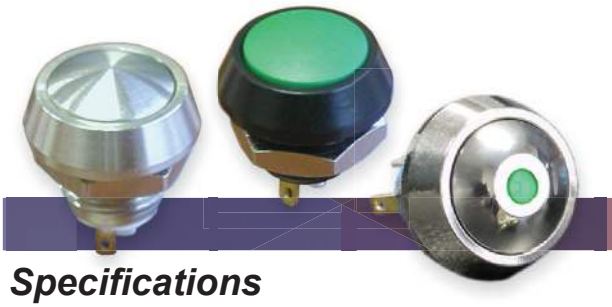


CIT Relay & Switch

EH

Illuminated Anti-Vandal – 12mm

Specifications

Electrical Ratings	2A @ 48VDC
Electrical Life	200,000 cycles typical
Contact Resistance	≤ 50mΩ initial
Mechanical Resistance	500,000 cycles typical
Sealing Degree	IP67

Actuation Force	500 ± 100gF
Actuation Travel	1.7 ± .25mm
Dielectric Strength	2000Vrms min between contacts
Insulation Resistance	≥ 100MΩ min @ 250VDC
Operating Temperature	-20ºC to 70ºC
Storage Temperature	-20ºC to 70ºC

Materials

Actuator	Polybutylene Terephthalate (PBT) or Stainless Steel
Base	Polybutylene Terephthalate (PBT)
Housing	Aluminum or Stainless Steel
Contacts	Silver Alloy
Terminals	Nickel Plated Brass
Hardware - Nut	Nickel Plated Brass

Custom Capabilities Contact Factory

Cable Assemblies

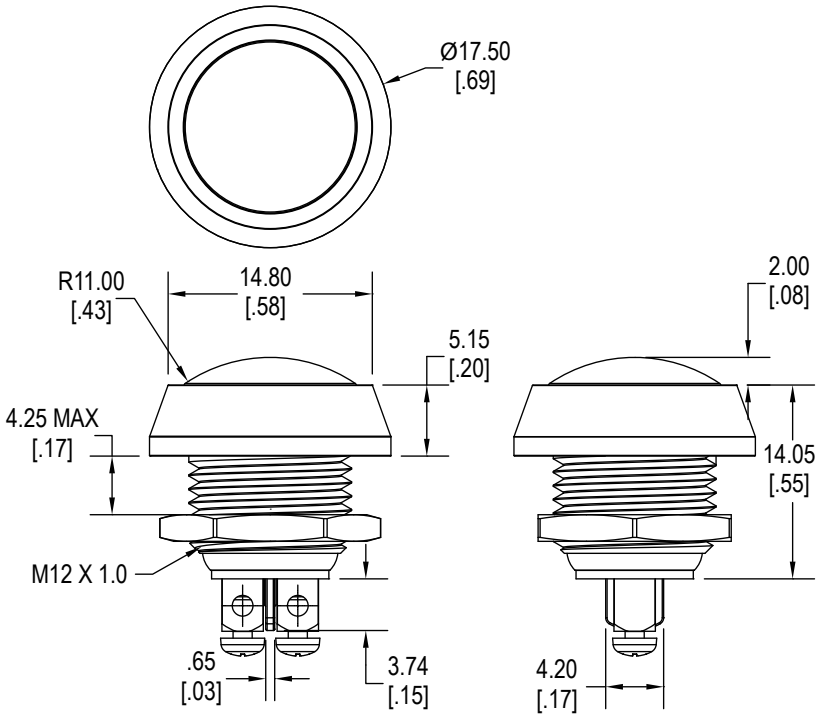
Ordering Information

1. Series	EH	12	N	M	SS		B	BO
EH								
2. Switch Body Diameter 12 = 12mm								
3. Switch Funcion N = Momentary								
4. Actuator Style: M = Round L = Round with LED								
5. Switch Finish SS = Brushed Stainless Steel B = Black Anodized Aluminum								
6. Cap Color Options Blank = Stainless Steel 2 = Black 3 = Red 4 = Yellow 5 = Green 7 = Blue								
7. Terminal Options Z = Screw Terminals *not available with illuminated option B = Solder Lugs								

8. 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
	YG = Yellow / Green dual LED
	YB = Yellow / Blue dual LED
	GB = Green / Blue dual LED

Dimensions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R11.00
[.43]
14.80
[.58]
5.15
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2.00
[.08]
4.25 MAX
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14.05
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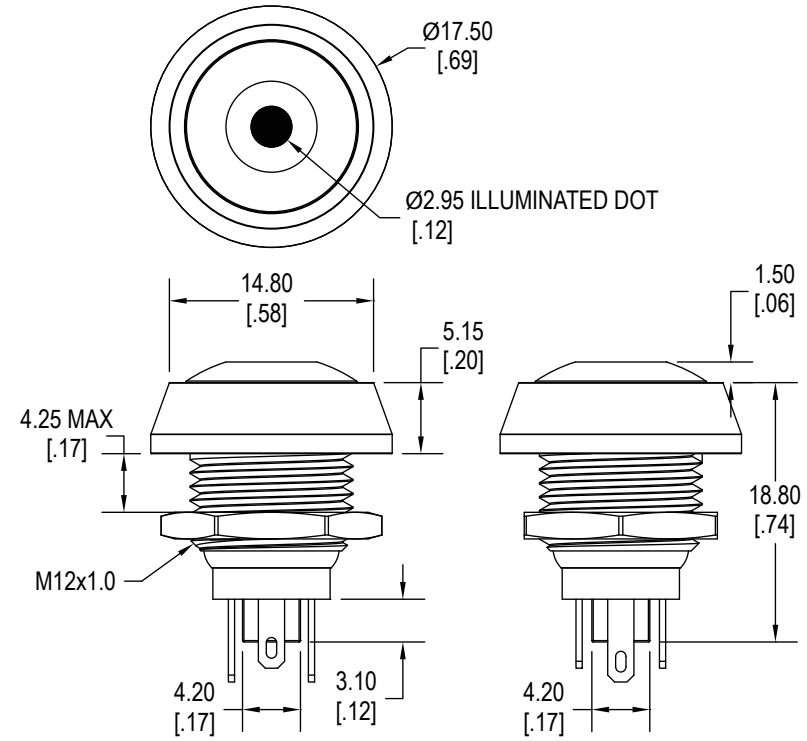
M12 X 1.0
.65
[.03]
3.74
[.15]
4.20
[.17]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Ø2.95 ILLUMINATED DOT
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5.15
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4.25 MAX
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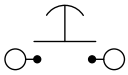
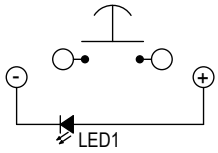
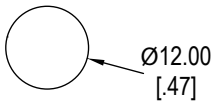
18.80
[.74]
M12x1.0
4.20
[.17]
3.10
[.12]
4.20
[.17]

Schematics



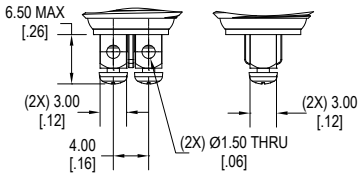


Panel Cut-Out

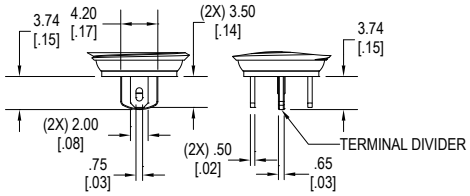


Terminal Options

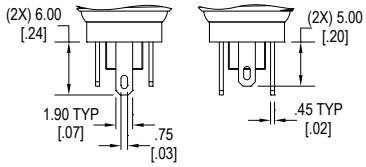
Screw Terminal



Solder Lug



Solder Lug with 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 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	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