



Illuminated Anti-Vandal Pushbutton – 19mm

Specifications

Electrical Ratings	1A @ 24VDC 3A @ 125VAC / 250VAC
Sealing Degree	IP67
Electrical Life	50,000 cycles typical
Contact Resistance	≤ 50mΩ initial
Actuation Force	250 ± 50gF
Actuation Travel	2.5 ± 0.3mm

Dielectric Strength	2000Vrms min contact to contact 2000Vrms min contact to LED
Insulation Resistance	≥ 100MΩ 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	Silver Alloy
Terminals	Tin Plated Brass
Hardware	One Hex Nut & One “O” Ring Supplied

Custom Capabilities Contact Factory

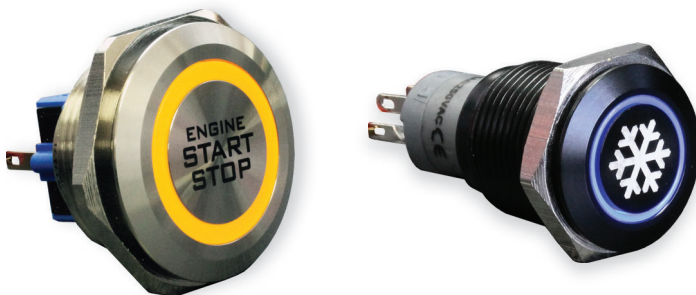
Cable Assemblies



Shine Through Symbols



Custom Laser Etching



Custom Plastic Convex Actuators



Illuminated Anti-Vandal Pushbutton – 19mm

Ordering Information

1. Series	AHB	1	N	B	S	R	12
AHB							
2. Number of Poles							
1 = SPDT							
2 = DPDT							
3. Bezel Style							
Blank = Standard Bezel							
H = Straight Bezel							
4. Latching Option							
N = Momentary							
L = Latching							
5. Actuator Style							
A = Flush actuator, non-illuminated							
B = Flush actuator, ring illuminated							
C = Flush actuator, dot illuminated							
G = Flush actuator, international standby symbol + ring illuminated							
K = Flush actuator, international standby symbol illuminated							
EC = Epoxy Convex actuator, contact factory for details							
6. 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							
7. LED Color							
Z = No LED							
R = Red							
Y = Yellow							
G = Green							
B = Blue							
W = White							
O = Orange							
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							
8. LED Voltage							
Blank = No LED							
6 = 6VDC							
12 = 12VDC							
24 = 24VDC							
110 = 110VAC							
220 = 220VAC							
N = No internal resistor in series with the LED							

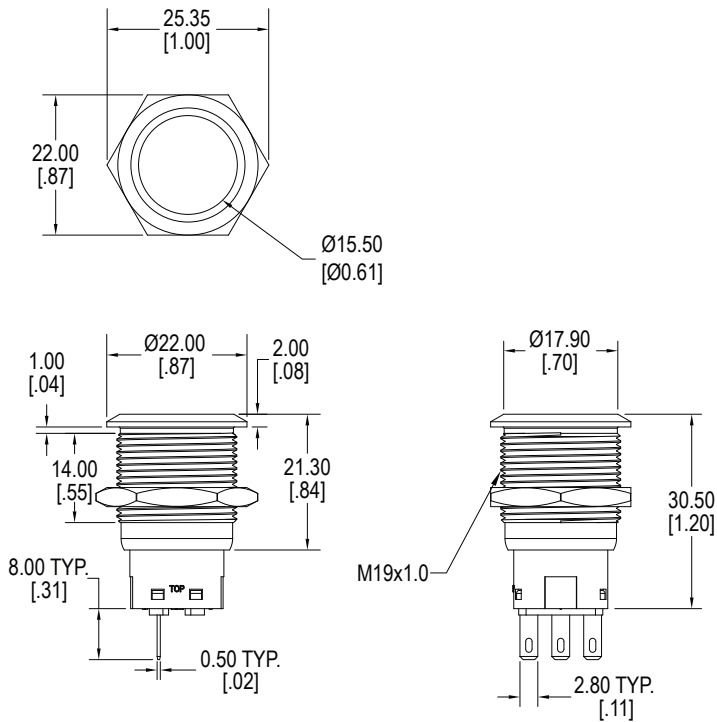
RGB, only available with SPDT

* Contact Factory for other LED options

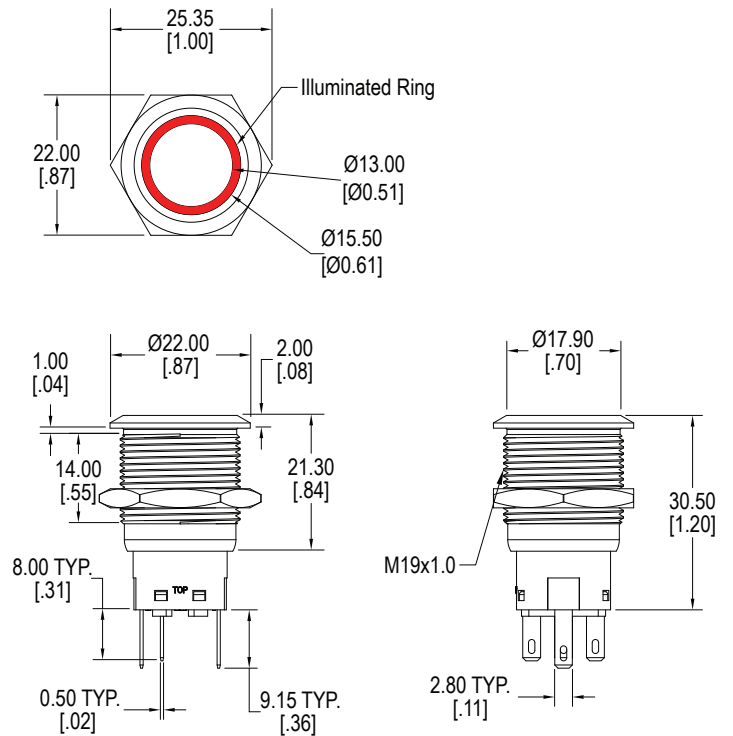
OPTIONAL Socket Housing available

Dimensions

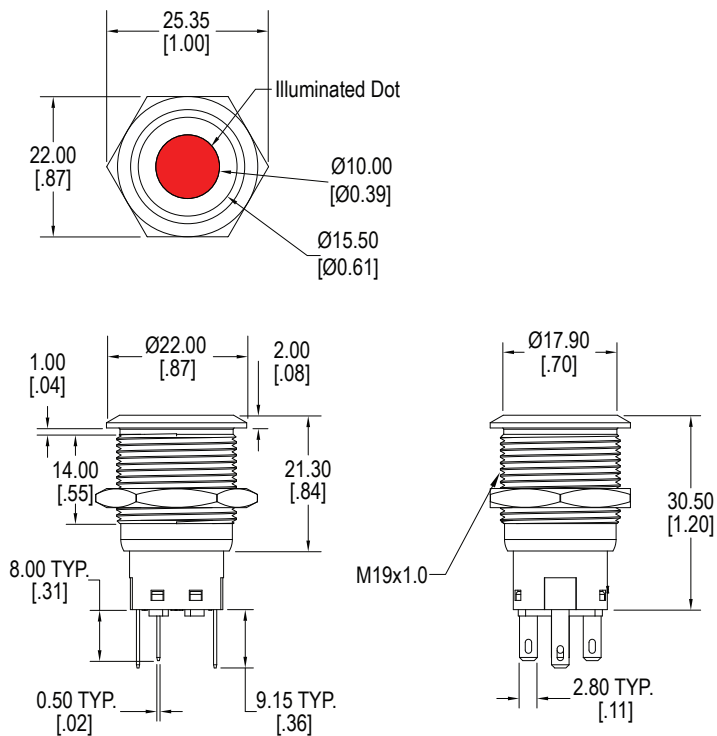
A Actuator



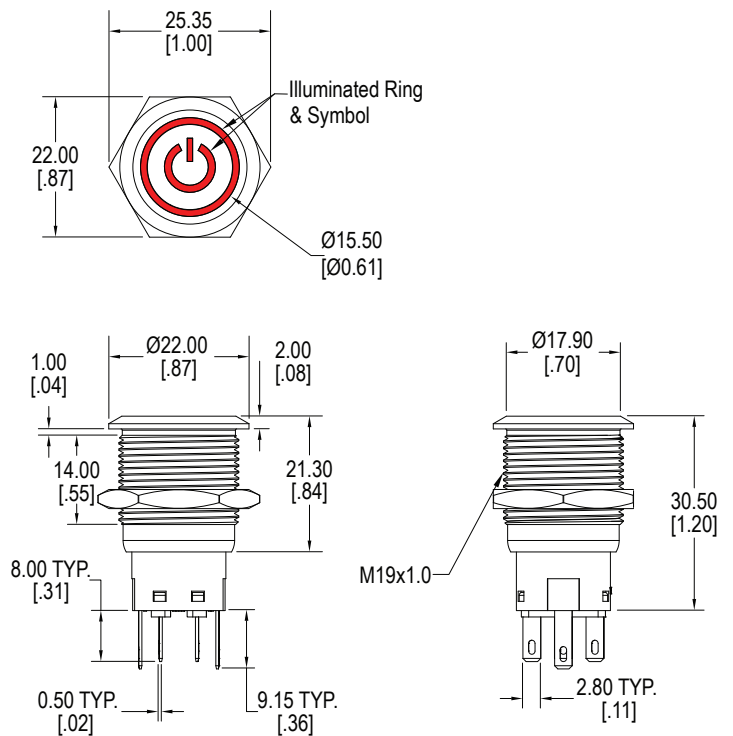
B Actuator



C Actuator

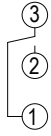


G Actuator

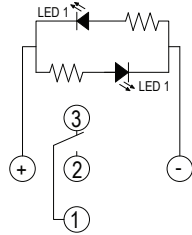


Schematics

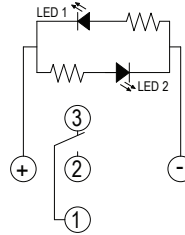
SPDT, Non-Illuminated



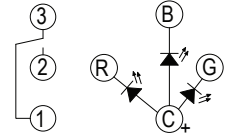
SPDT, Single LED



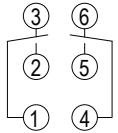
SPDT, Dual LED



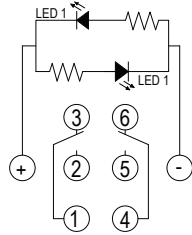
SPDT, RGB LED



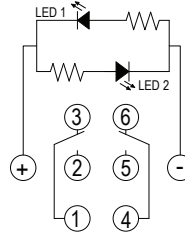
DPDT, Non-Illuminated



DPDT, Single LED

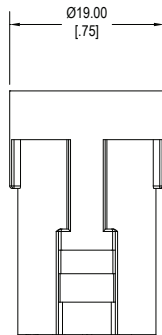
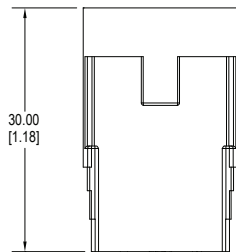
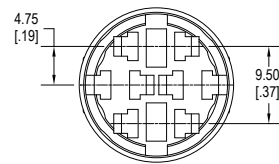


DPDT, Dual LED



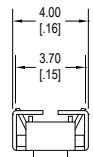
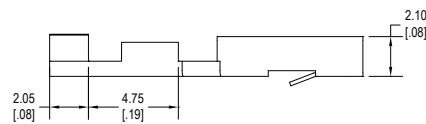
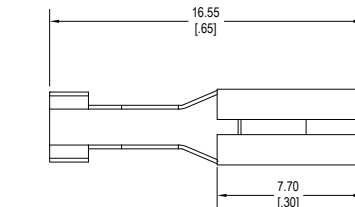
Optional Socket Housing

SS2002



SS Terminal

for use with wire size 18AWG to 24AWG



LED Characteristics

LED Ratings		Color						Units
		R	Y	G	B	O	W	
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