



Specifications

Electrical Ratings	2A @ 36VDC 1A @ 125VAC 0.5A @ 250VAC
Sealing Degree	IP65
Electrical Life	50,000 cycles typical
Contact Resistance	≤ 50mΩ initial
Dielectric Strength	2000Vrms min contact to contact 2000Vrms min contact to LED

Actuation Force	16mm	500 ± 100gF
	19mm	550 ± 100gF
Actuation Travel	16mm	1.6 ± .25mm
	19mm	2.0 ± .25mm
Insulation Resistance		≥ 100MΩ min
Operating Temperature		-25°C to 55°C
Storage Temperature		-25°C to 55°C

Materials

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

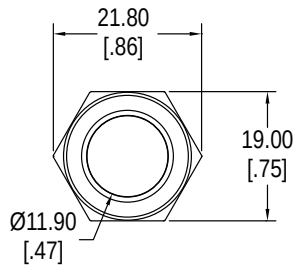
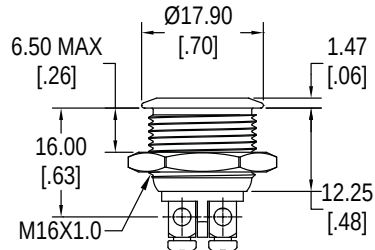
Illuminated Pushbutton - 16mm & 19mm

Ordering Information

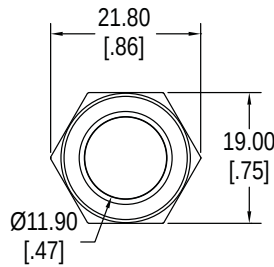
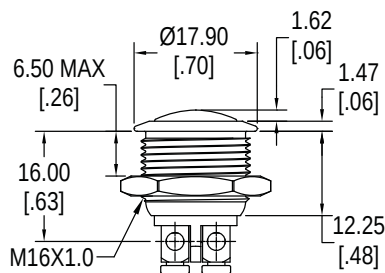
1. Series	BH16	N	R	S	Z	12
BH16 = 16mm BH19 = 19mm						
2. Bezel Style Blank = Standard Bezel H = Straight Bezel						
3. Switch Function N = Momentary						
4. Actuator Style: F = Flush M = Round R = Raised B = Flush, ring illuminated *Available in 16mm only, see AH for 19mm illuminated C = Flush dot illuminated *Available in 16mm only, see AH for 19mm illuminated E = Raised, ring illuminated *Available in 16mm only, see AH for 19mm illuminated G = Flush, international stand-by symbol illuminated J = Round, ring illuminated *Available in 16mm only, see AH for 19mm illuminated K = Round, dot illuminated *Available in 16mm only, see AH for 19mm illuminated L = Raised, dot illuminated *Available in 16mm only, see AH for 19mm illuminated						
5. Switch Finish: B = Black anodized aluminum G = Green anodized aluminum N = Nickel plated brass P = Gold plated brass R = Red anodized aluminum S = Brushed stainless steel U = Blue anodized aluminum Y = Yellow anodized aluminum						
6. Terminal Options B = Solder Lugs C = Quick Connect Terminal Z = Screw Terminal *not available with illuminated option						
7. LED Color ** Only available in 16mm diameter						
X = 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 RGB = Red / Green / Blue					

Dimensions

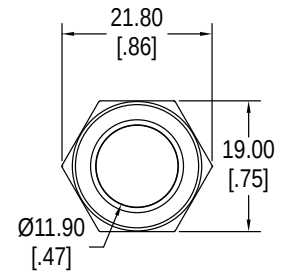
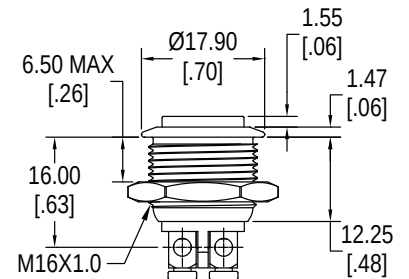
16mm - Actuator Styles



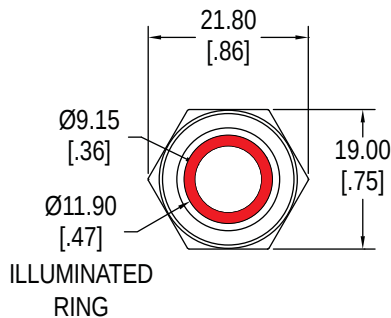
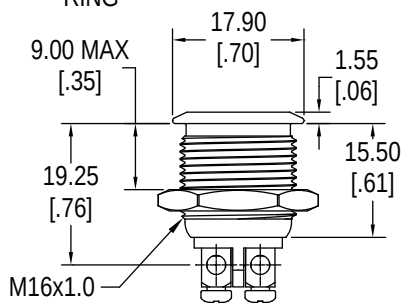
F Style



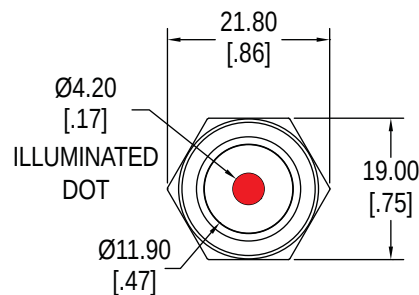
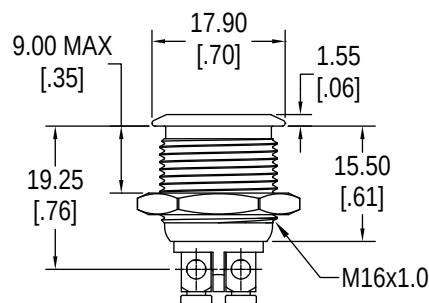
M Style



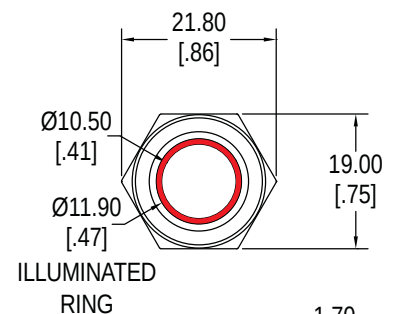
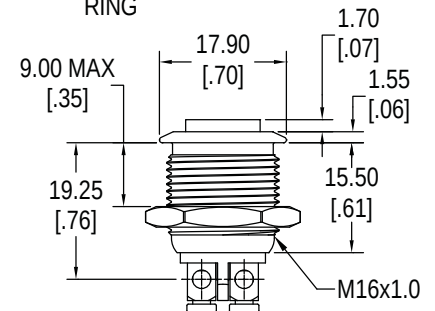
R Style



B Style



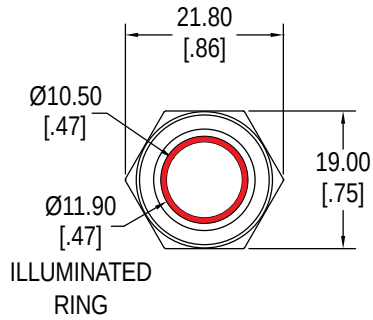
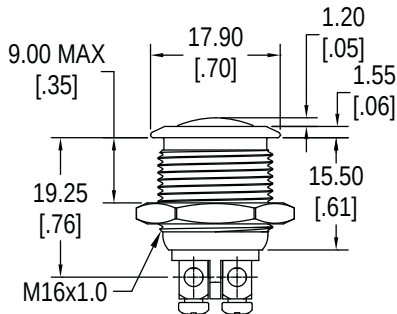
C Style



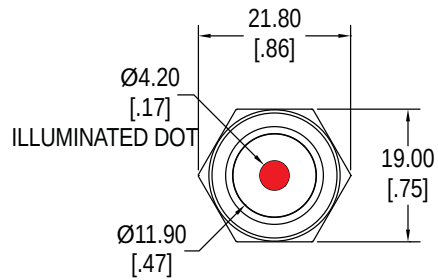
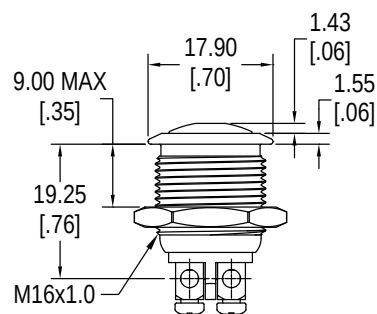
E Style

Dimensions

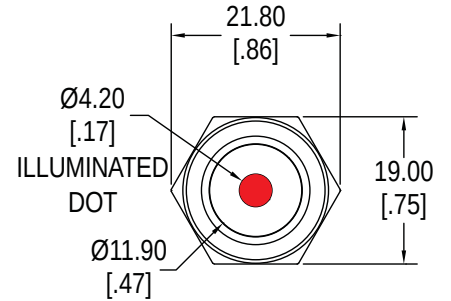
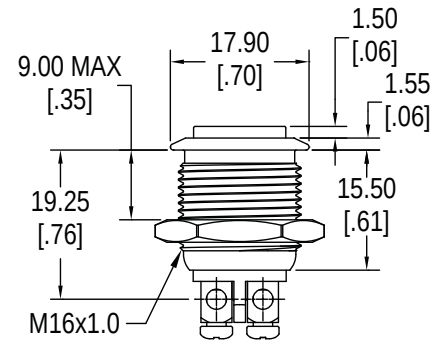
16mm - Actuator Styles, Illuminated



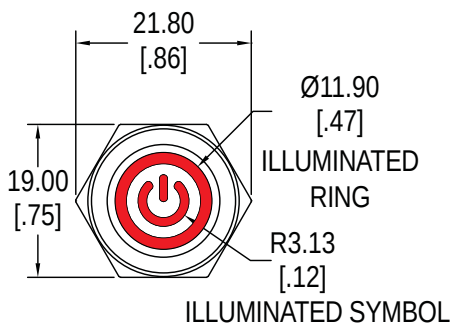
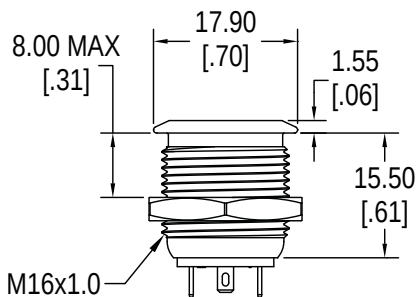
J Style



K Style



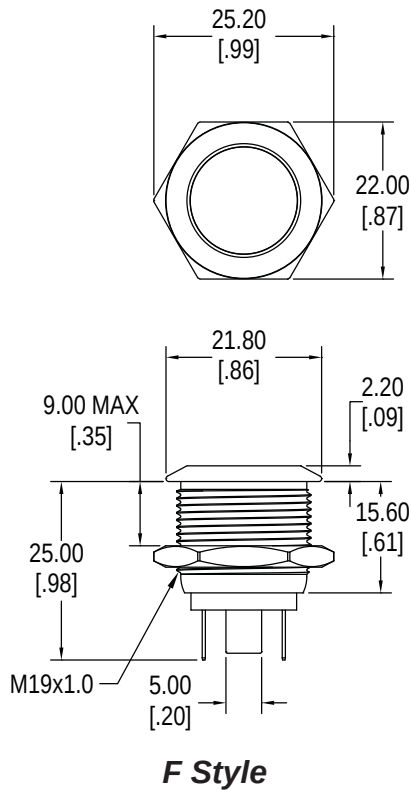
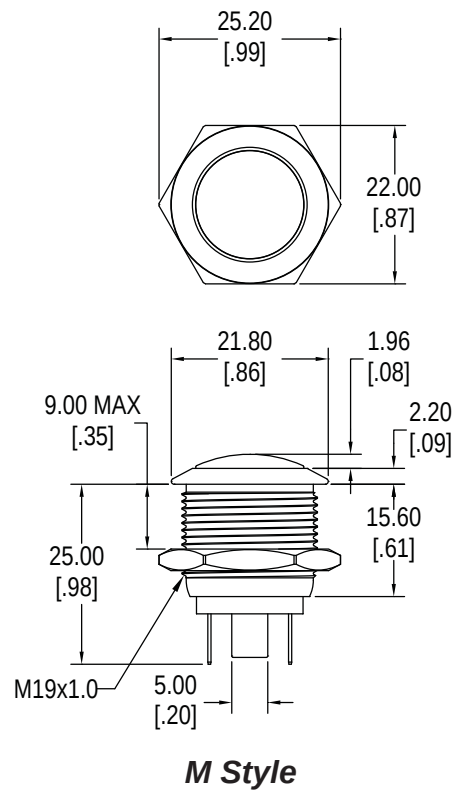
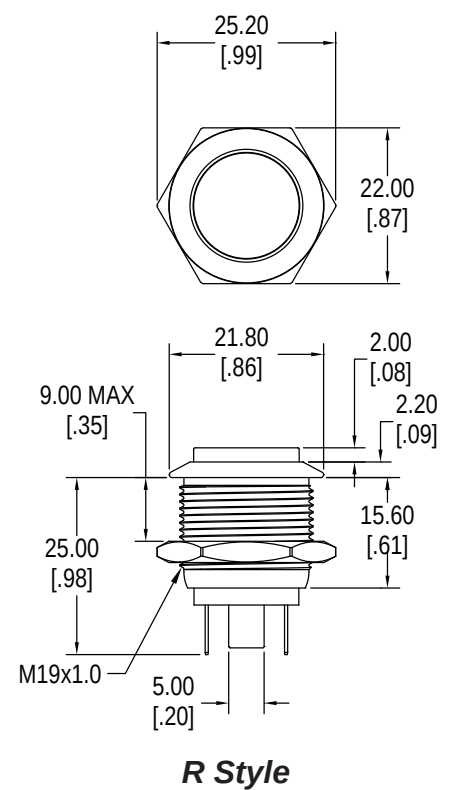
L Style



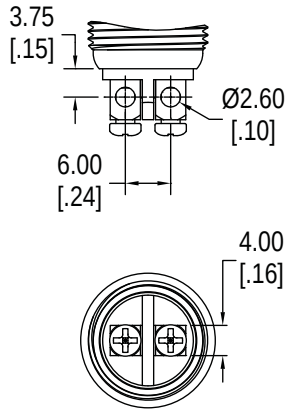
G Style

Dimensions

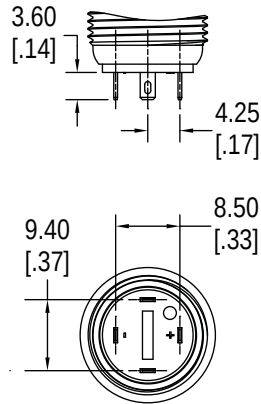
19mm - Actuator Styles



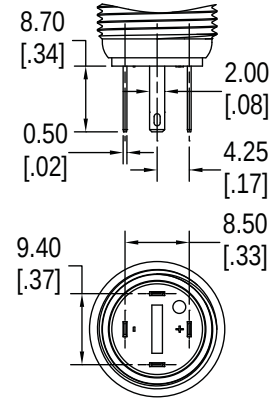
16mm - Terminal Options



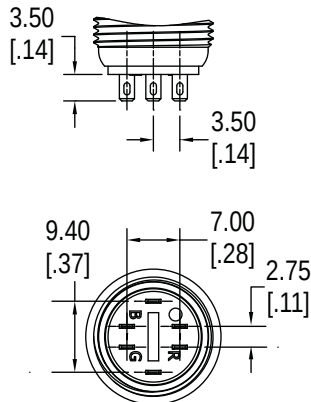
Screw Terminals



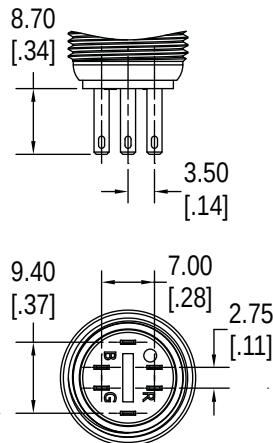
Solder Lug



Quick Connect

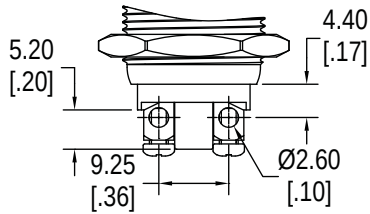


RGB Solder Lug

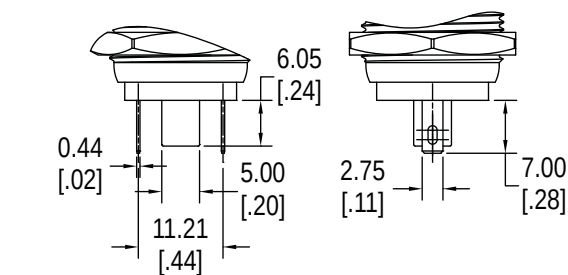


RGB Quick Connect

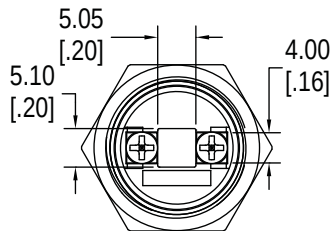
19mm - Terminal Options



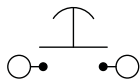
Screw Terminals



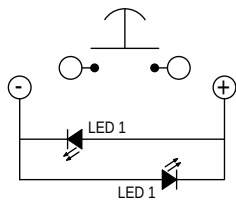
Solder Lug/ .110" Quick Connect



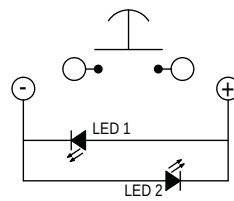
Schematics



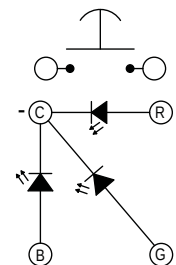
No LED



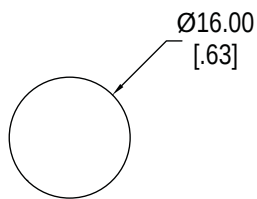
Single LED



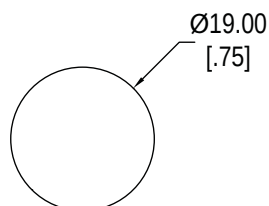
Dual LED



RGB LED



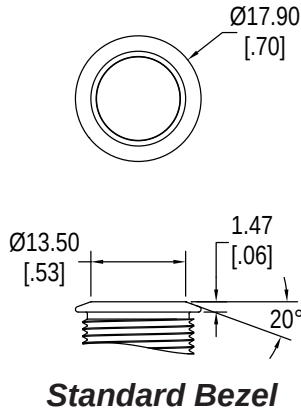
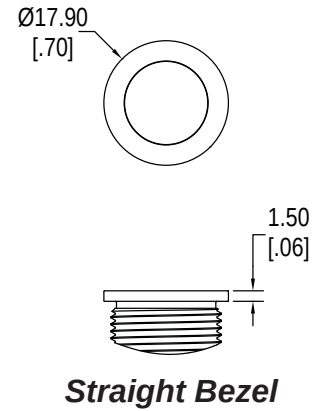
16mm Panel Cut Out



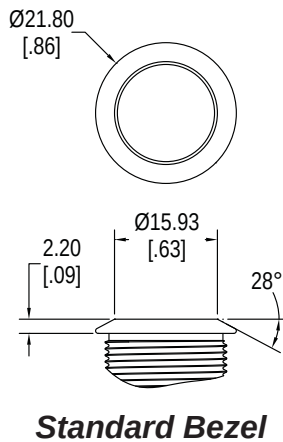
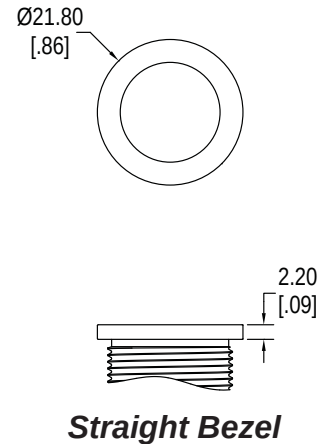
19mm Panel Cut Out

Illuminated Pushbutton - 16mm & 19mm

16mm - Bezel Detail



19mm - Bezel Detail



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

Features

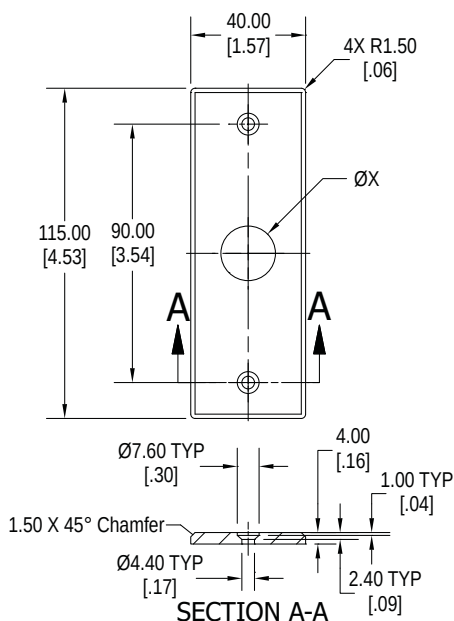
- ♦ Fits standard size electrical boxes
- ♦ Multiple size options
- ♦ 2 finish options
- ♦ Laser etching available



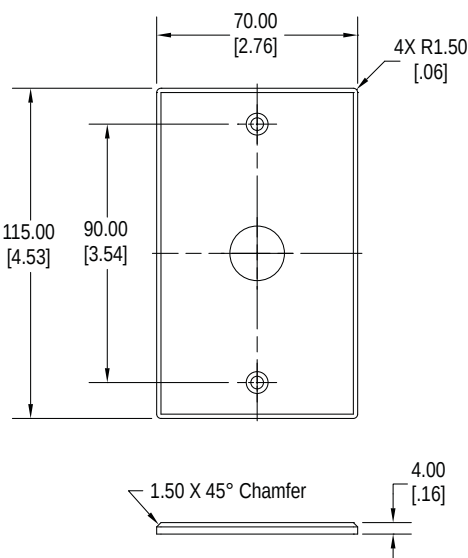
Ordering Information

1. Series	WP	B	16	A	X
WP					
2. Size:					
A = 40mm x 115mm					
B = 70mm x 115mm					
C = 86mm x 86mm					
3. Hole Size:					
16 = 16mm diameter					
19 = 19mm diameter					
4. Material					
A = Brushed aluminum					
Y = Brushed aluminum, yellow anodized					
5. Laser Etching Symbol:					
Contact Factory with artwork					

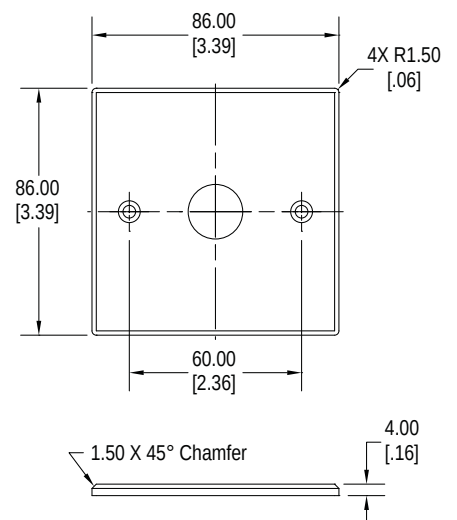
Dimensions



A



B



C

AVH

Aluminum Anti-Vandal Switch Housing

Features

- ♦ Easy installation
- ♦ Multiple size options
- ♦ Aluminum housing

Ordering Information

1. Series	AVH	F	4	19
AVH				
2. Mounting Options: F = With mounting flange T = Without mounting flange				
3. Number of Positions: 1 = 1 position 2 = 2 positions 3 = 3 positions 4 = 4 positions 5 = 5 positions Contact Factory for custom sizes and number of positions				
4. Hole Size: 16 = 16mm diameter 19 = 19mm diameter				



Dimensions

