



Capacitive Touch Anti-Vandal

Specifications

Electrical Ratings	Max Current : 15mA Max Voltage : 24VDC	Actuation Force/Travel	0gF / 0mm
Sealing Degree	IP68	Dielectric Strength	250Vrms min between contacts
Electrical Life	50,000,000 cycles typical	Insulation Resistance	≥ 10MΩ min @ 600VDC
Contact Resistance	≤ 20mΩ initial	Operating Temperature	-40°C to 85°C
		Storage Temperature	-40°C to 85°C

Materials

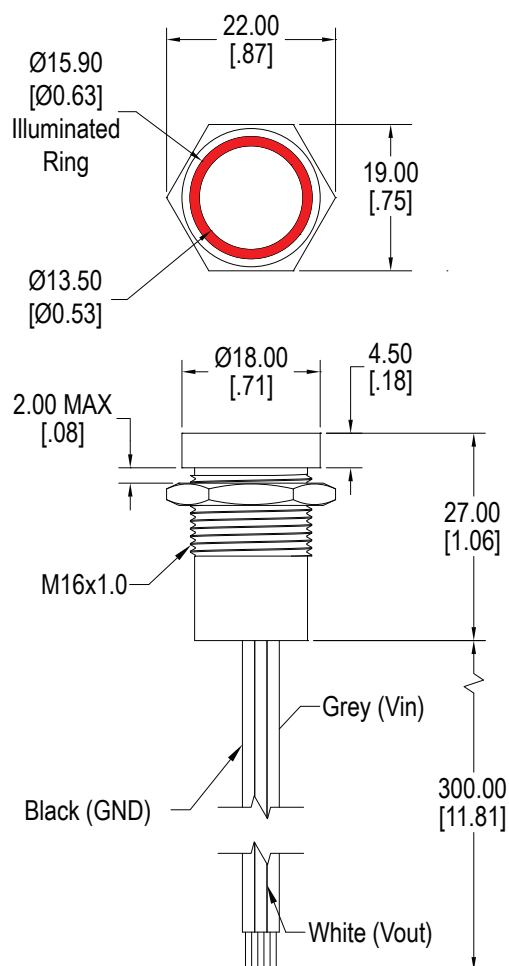
Actuator	Stainless Steel
LED Lens	Polycarbonate (PC)
Threaded Body	Stainless Steel
Wire	UL1430 22AWG
Hardware	One Hex Nut & One "O" Ring Supplied

Ordering Information

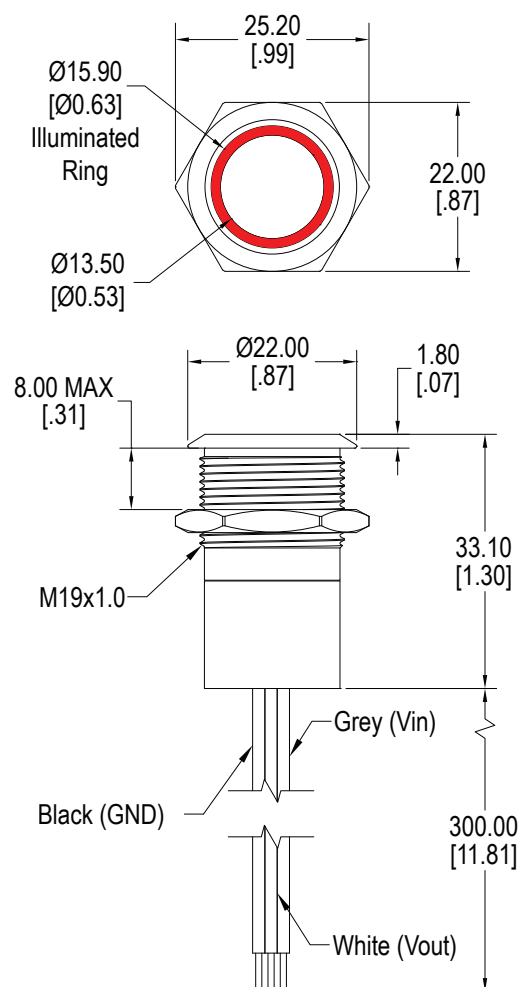
1. Series	TH22	L	B	S	RG	12V	S
TH16*							
TH19							
TH22							
TH25							
*only available with momentary function							
2. Bezel Style							
Blank = Standard Bezel <i>not available on 16mm</i>							
H = 4.5mm High Bezel <i>16mm only</i>							
Contact Factory for custom bezel styles							
3. Latching Option							
N = Momentary							
L = Latching							
D = 30 Second Hold							
4. Actuator Style							
B = Flush actuator, thick ring illuminated <i>not available on 16mm or 19mm</i>							
T = Flush actuator, thin ring illuminated <i>not available on 25mm</i>							
5. Switch Finish							
S = Brushed Stainless Steel <i>Contact Factory for custom finish options</i>							
6. LED Color & State							
Single LED	Dual LED						
RN = Red / Off	RG = Red / Green						
ON = Orange / Off	RB = Red / Blue						
GN = Green / Off	BG = Blue / Green						
BN = Blue / Off	WO = White / Orange						
WN = White / Off	GR = Green / Red						
NR = Off / Red	BR = Blue / Red						
NO = Off / Orange	GB = Green / Blue						
NG = Off / Green	OW = Orange / White						
NB = Off / Blue							
NW = Off / White							
7. LED Voltage							
5V = 5VDC							
12V = 12VDC							
24V = 24VDC							
8. Wire Length							
S = 300 mm length <i>Contact Factory for custom wire lengths</i>							

Dimensions

16mm, T Actuator

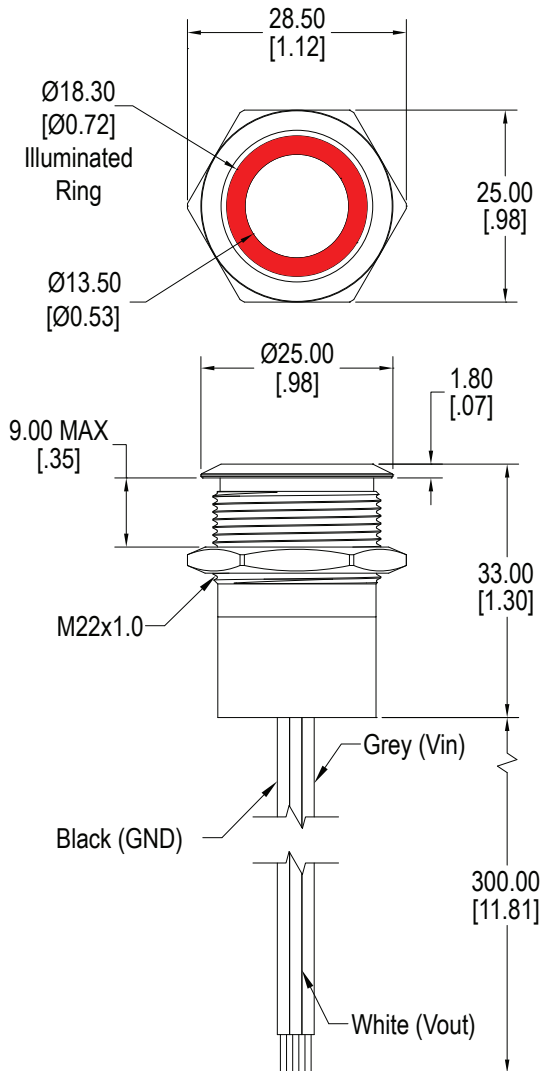


19mm, T Actuator

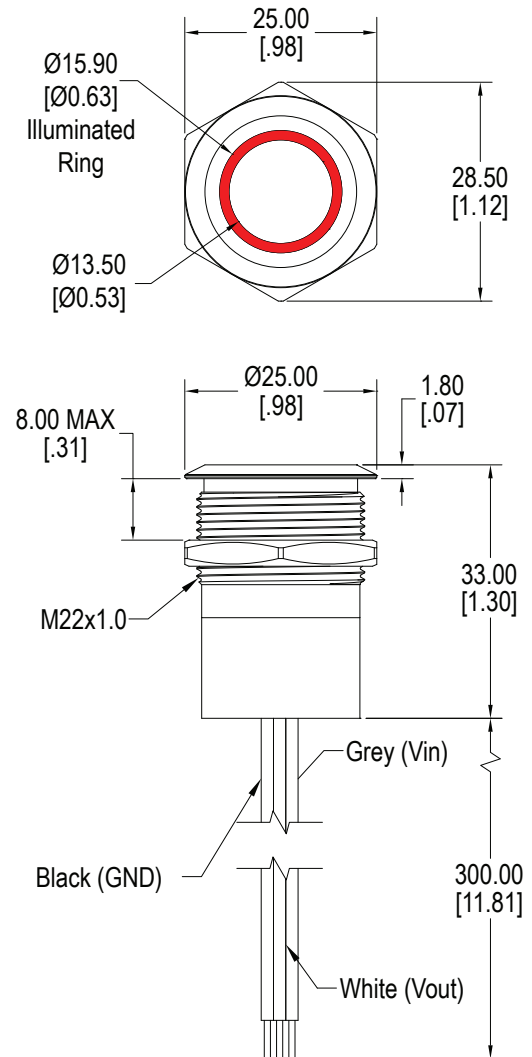


Dimensions

22mm, B Actuator

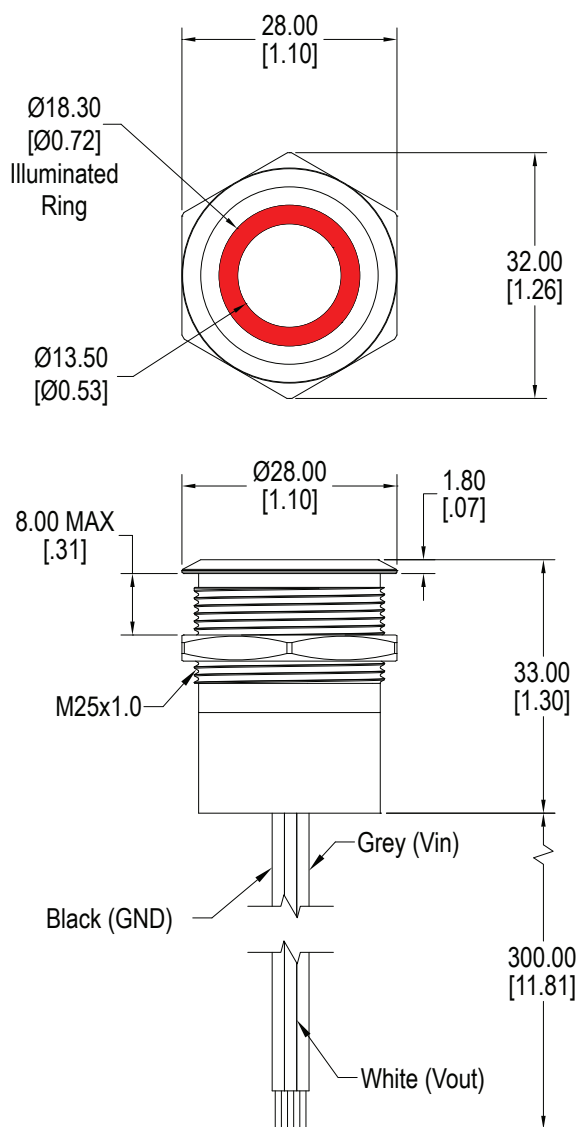


22mm, T Actuator

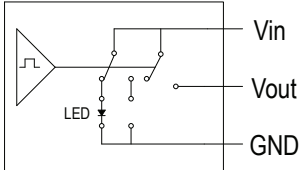
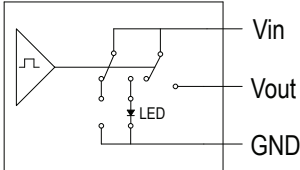
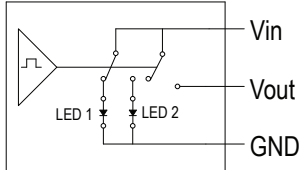
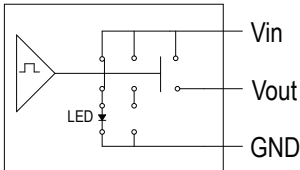
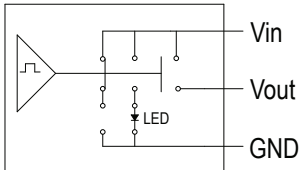
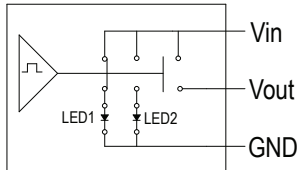
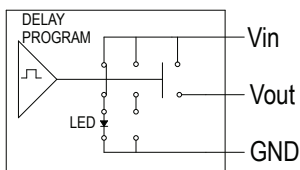
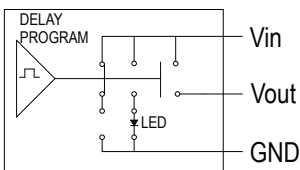
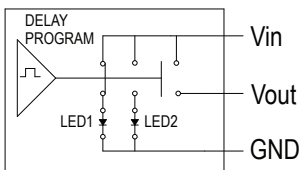


Dimensions

25mm, B Actuator

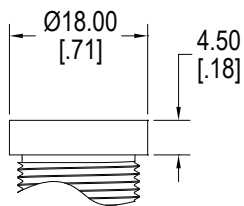


Schematics

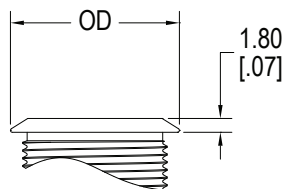
LED State	Single LED		Dual LED
	LED / Off LED On, turns Off when switch is actuated	Off / LED LED Off, turns On when switch is actuated	LED 1 / LED 2 LED 1 On, LED 2 Off, LED 1 turns Off, LED 2 turns On when actuated
N Momentary Off - (On)			
L Latching Off - On			
D 30 second hold Off - (On)			

Bezel Detail

H, 4.5mm (16mm only)

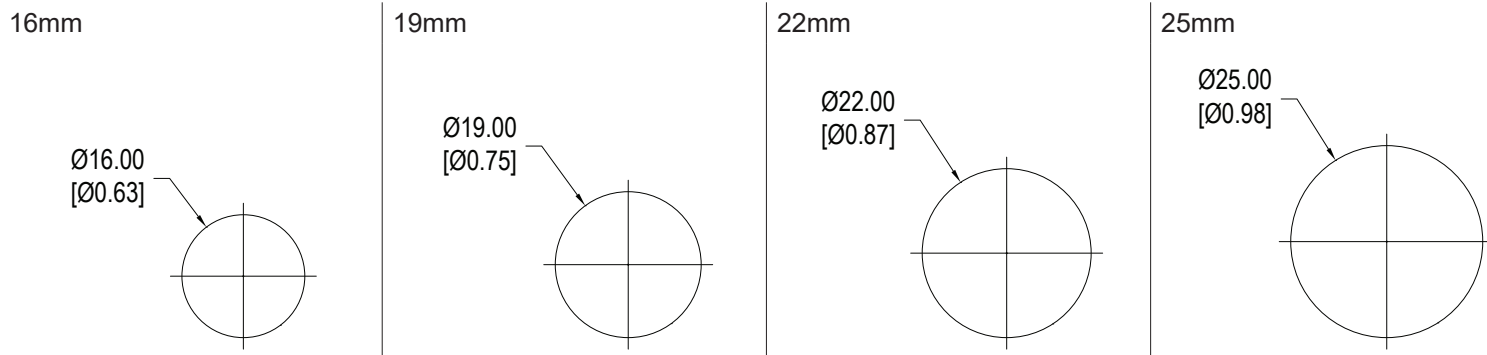


Standard

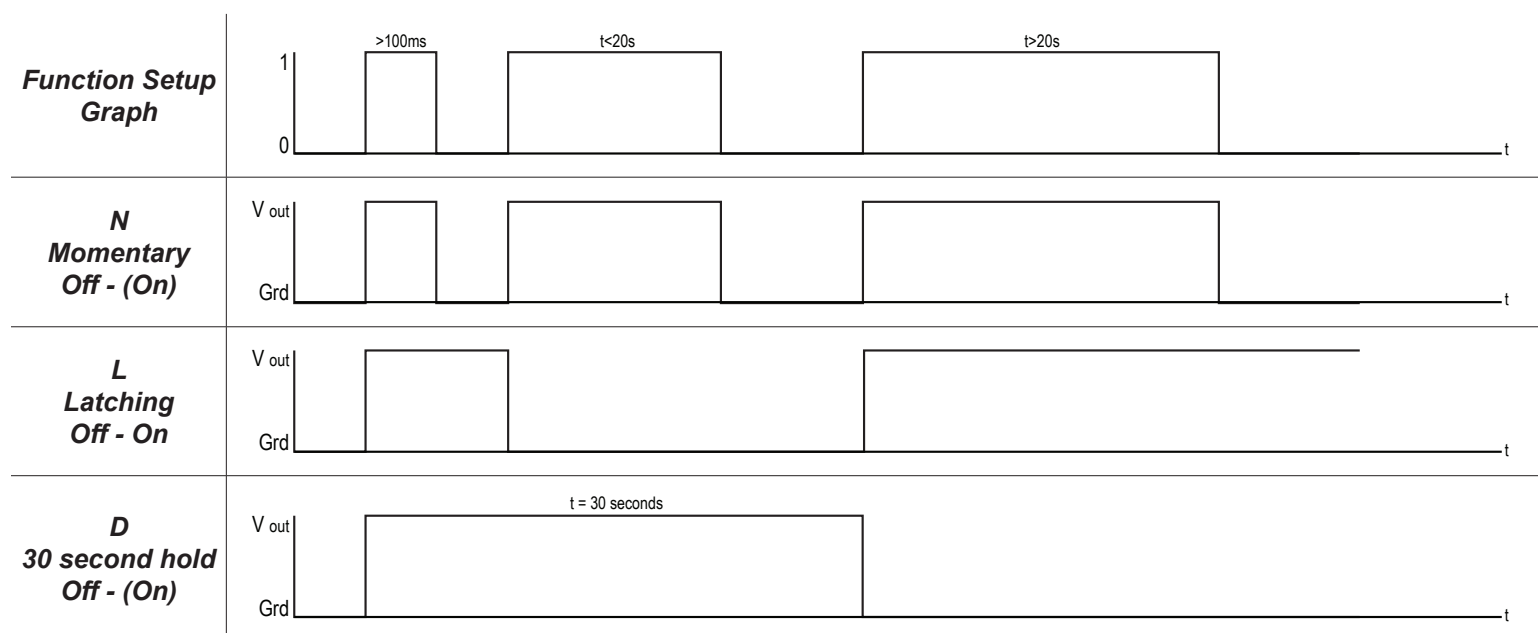


OD SIZE	
SWITCH SIZE	OD SIZE (mm)
TH19	22
TH22	25
TH25	28

Panel Cut-Outs



Response Graphs



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 (peak)	I_{FS}	120	120	160	160	120	160	mA
Reverse Current $V_R = 5\text{V}$	I_R	10	10	10	10	10	10	μA
Power Dissipation	P_T	80	80	120	120	80	120	mW
Forward Voltage (typ) $I_F = 20\text{mA}$	V_F	2.1	2.1	3.3	3.3	2.0	3.0	V
Luminous Intensity, $I_F = 20\text{mA}$	LI	120	120	170	100	120	700	mcd