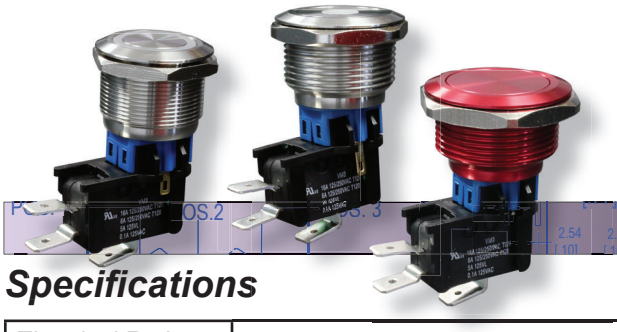


RoHS Compliant

E222871 UL Approved Illuminated Pushbutton

Specifications

Electrical Ratings	
Evaluated to UL 61058-1	1/2 hp @ 125VAC/250VAC; T120
	10.1A @ 277VAC resistive; T120
	10.1A @ 125VAC inductive; T120
Evaluated to UL 1054	16A @ 125VAC/250VAC resistive; T120
	6A @ 125VAC/250VAC general purpose; T120
	5A @ 125VAC inductive; T120
Electrical Life	100,000 cycles average

Contact Resistance	≤ 20mΩ initial
Actuation Force	500 ± 100gF
Actuation Travel	3.2 ± .25mm
Dielectric Strength	2,000Vrms min @ sea level contact to contact
	2,000Vrms min @ sea level to LED
Insulation Resistance	≥ 1,000MΩ min @ 500VDC
Sealing Degree	IP67
Operating Temperature	-40ºC to 85ºC
Storage Temperature	-40ºC to 85ºC

Materials

Actuator	Stainless Steel, Anodized Aluminum
LED Lens	Polycarbonate (PC)
Threaded Housing	Stainless Steel, Anodized Aluminum
Terminal Support	Polybutylene Terephthalate (PBT)
Snap Action Switch Base / Cover	Polybutylene Terephthalate (PBT), UL94-V0
Snap Action Switch Pin Plunger	Polybutylene Terephthalate (PBT), UL94-V0
Snap Action Switch Contacts	Silver Alloy
Snap Action Switch Terminals	Silver plated Copper Alloy
Snap Action Switch Support Frame	POM
Hardware	One Hex Nut & one “O” Ring supplied

Combining the LED illumination and metal body of the DH Series switch with the UL recognized switching capability of the VM3 Series snap-action switch.

Dimensions shown in mm. Dimensions are shown for reference purposes only.
DHU Rev A 4/2022

Specifications and availability subject to change without notice.

CIT Relay & Switch DHU

UL Approved Illuminated Pushbutton

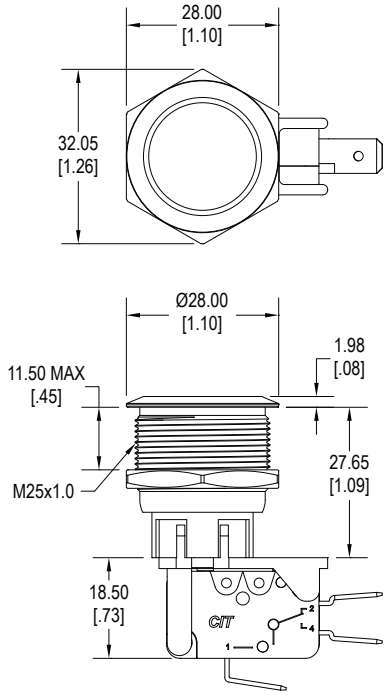
Ordering Information

1. Series	DHU25	1		N	B	S	R	12	B
DHU25 DHU28 DHU30									
2. Number of Poles 1 = SPDT									
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, Int'l standby symbol illuminated *only available with DHU25* MR = Mushroom actuator, red anodized aluminum *only available with DHU25 momentary*									
6. Switch Finish S = Brushed Stainless Steel B = Black Anodized Aluminum G = Green Anodized Aluminum R = Red Anodized Aluminum U = Blue Anodized Aluminum Y = Yellow Anodized Aluminum									
7. First LED Color 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 * Contact Factory for other LED options									
8. LED Voltage Z = No LED 6 = 6V 12 = 12V 24 = 24V 110 = 110V 220 = 220V N = No internal resistor in series with the LED									
10. Terminal Option A = .187" Quick Connect Switch Terminals and .110" Quick Connect LED Terminals B = .250" Quick Connect Switch Terminals and .110" Quick Connect LED Terminals									

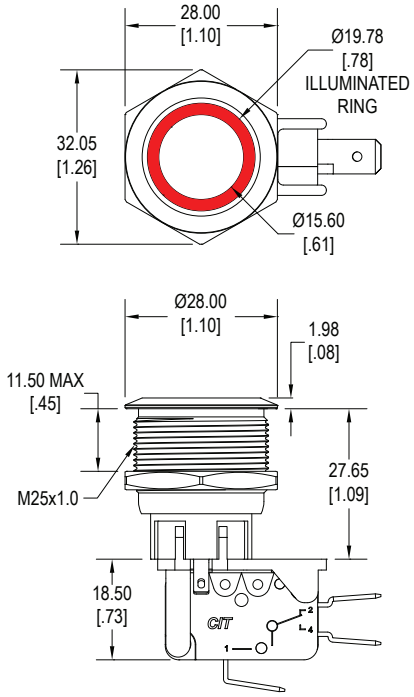
Dimensions shown in mm. Dimensions are shown for reference purposes only.
DHU Rev A 4/2022

Specifications and availability subject to change without notice.

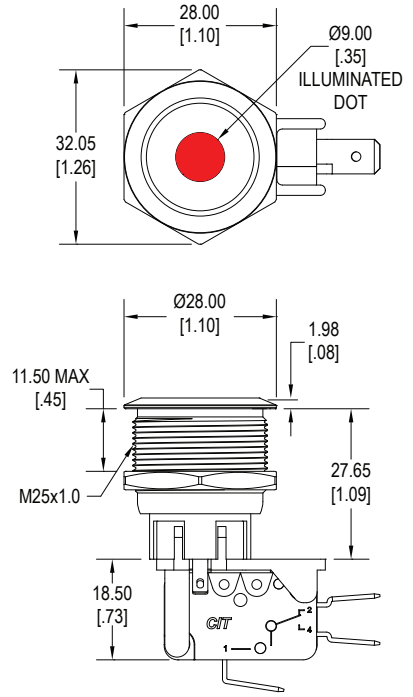
Dimensions - 25mm, Momentary



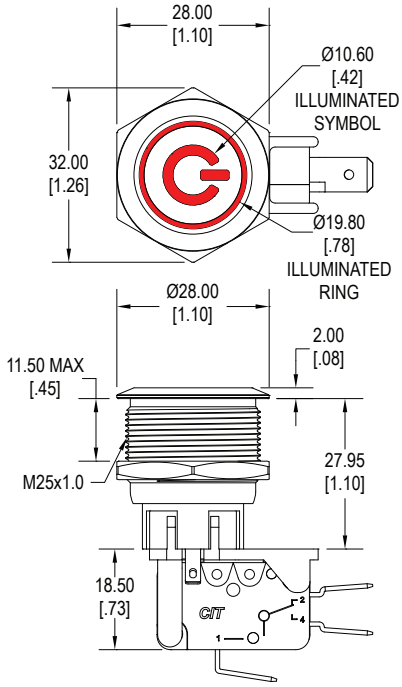
A - Flush, Non-Illuminated



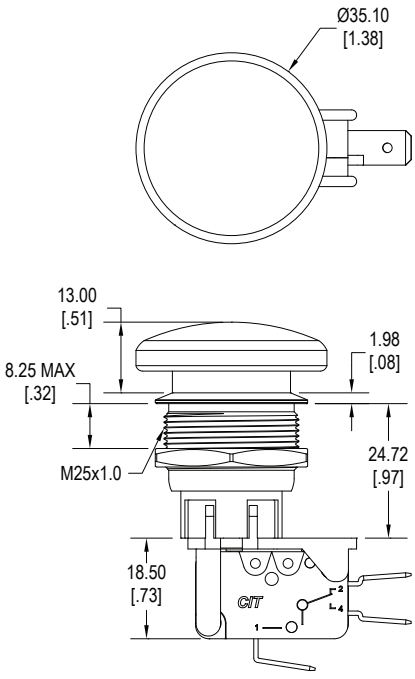
B - Flush, Ring Illuminated



C - Flush, Dot Illuminated



G - Flush, In'tl Standby Symbol

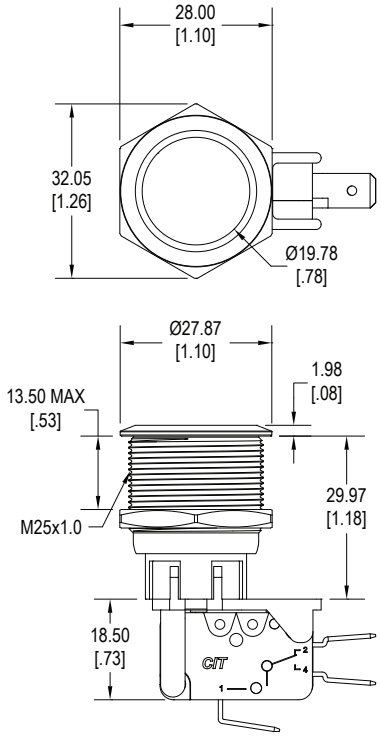


MR - Mushroom Actuator

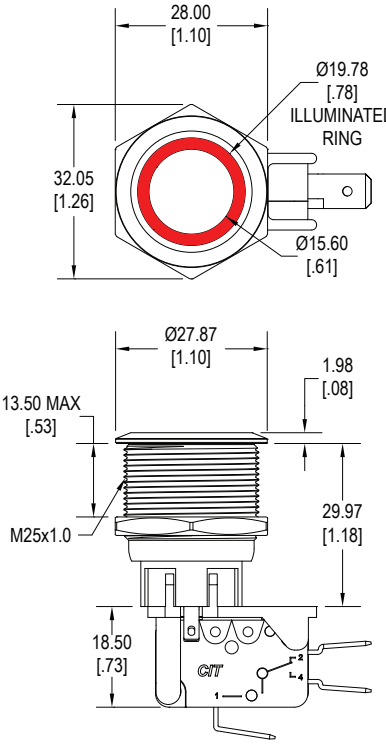
Dimensions shown in mm. Dimensions are shown for reference purposes only.
DHU Rev A 4/2022

Specifications and availability subject to change without notice.

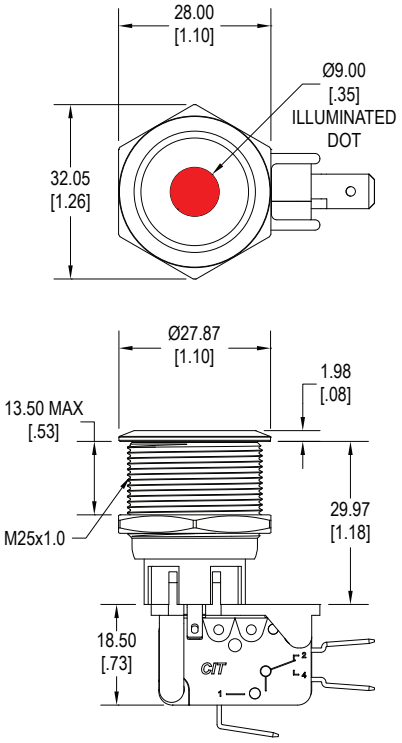
Dimensions - 25mm, Latching



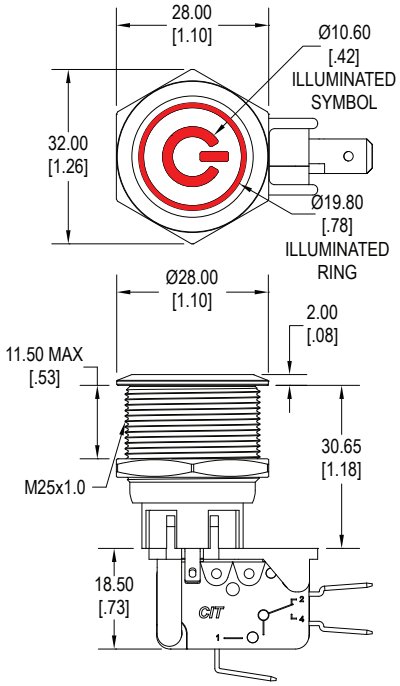
A - Flush, Non-Illuminated



B - Flush, Ring Illuminated



C - Flush, Dot Illuminated

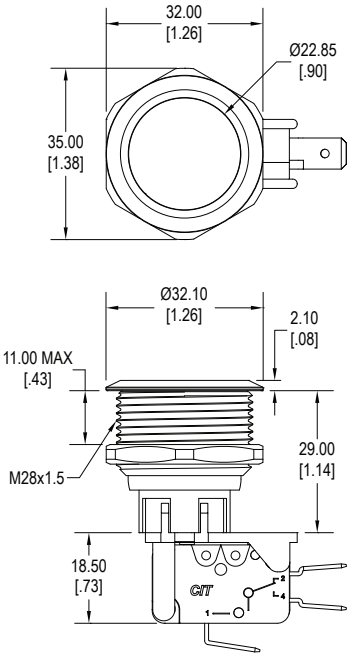


G - Flush, In'tl Standby Symbol

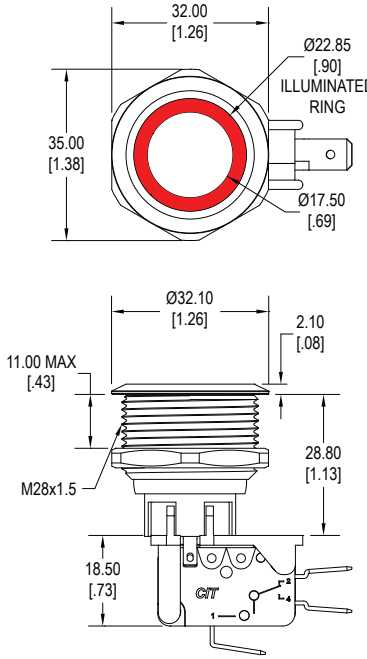
Dimensions shown in mm. Dimensions are shown for reference purposes only.
DHU Rev A 4/2022

Specifications and availability subject to change without notice.

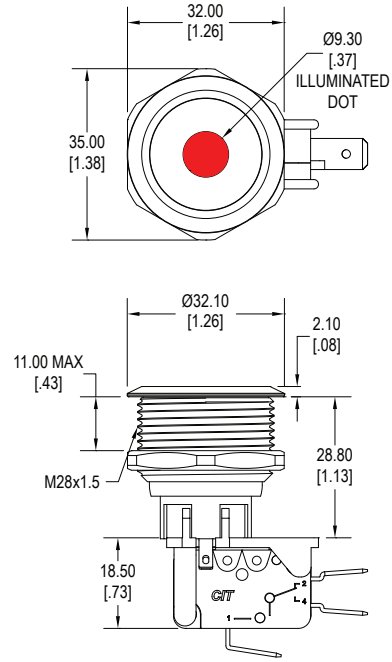
Dimensions - 28mm, Momentary



A - Flush, Non-Illuminated

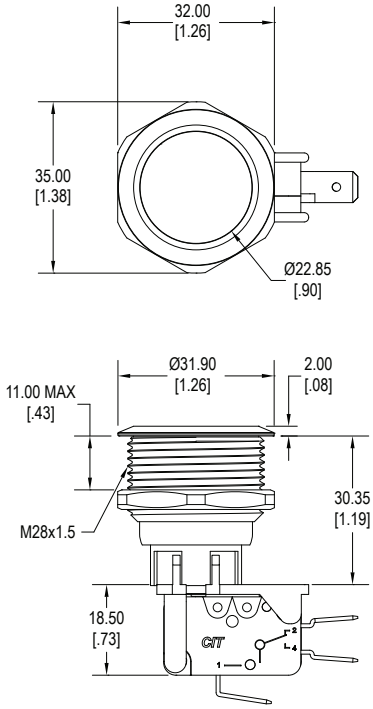


B - Flush, Ring Illuminated

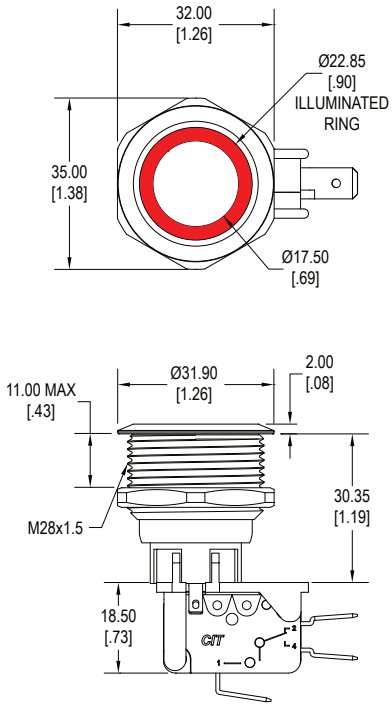


C - Flush, Dot Illuminated

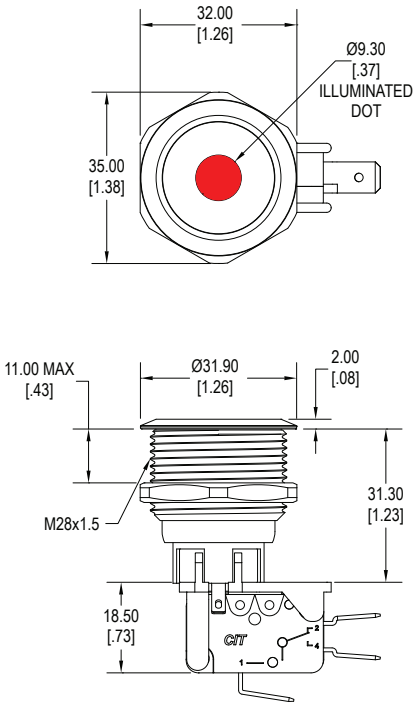
Dimensions - 28mm, Latching



A - Flush, Non-Illuminated



B - Flush, Ring Illuminated

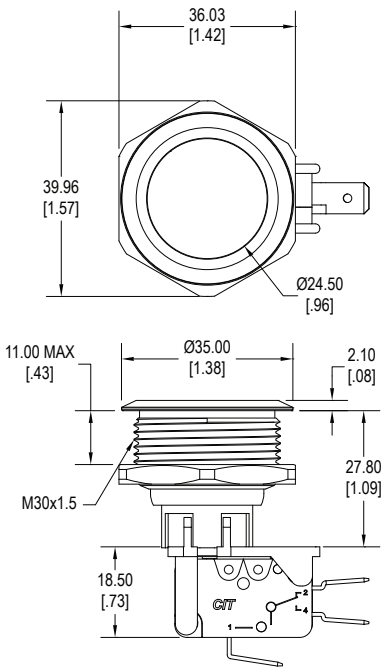


C - Flush, Dot Illuminated

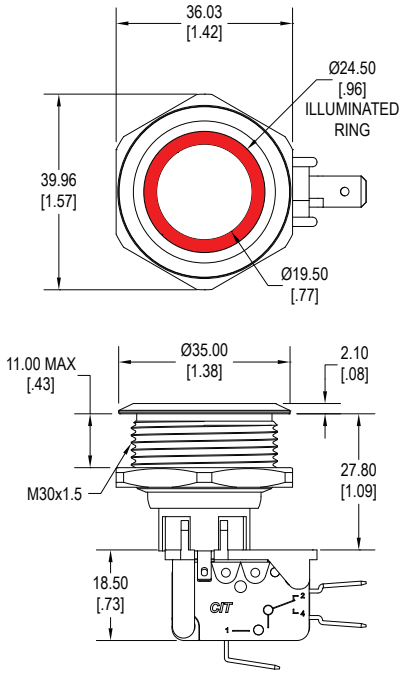
Dimensions shown in mm. Dimensions are shown for reference purposes only.
DHU Rev A 4/2022

Specifications and availability subject to change without notice.

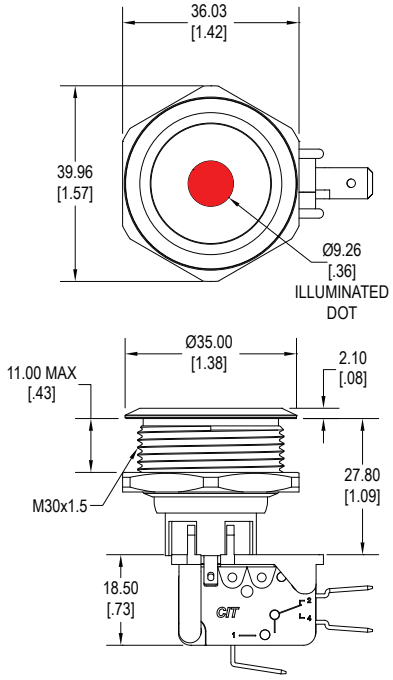
Dimensions - 30mm, Momentary



A - Flush, Non-Illuminated

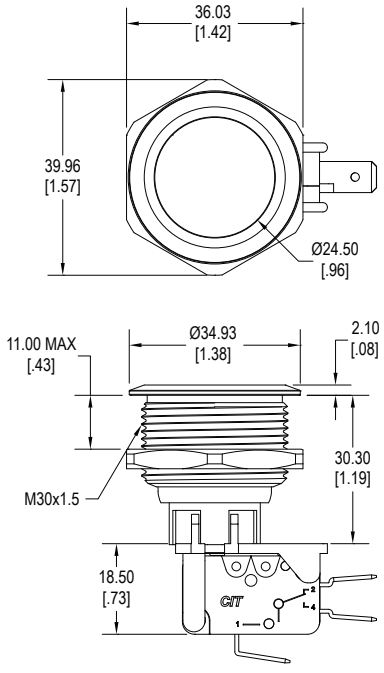


B - Flush, Ring Illuminated

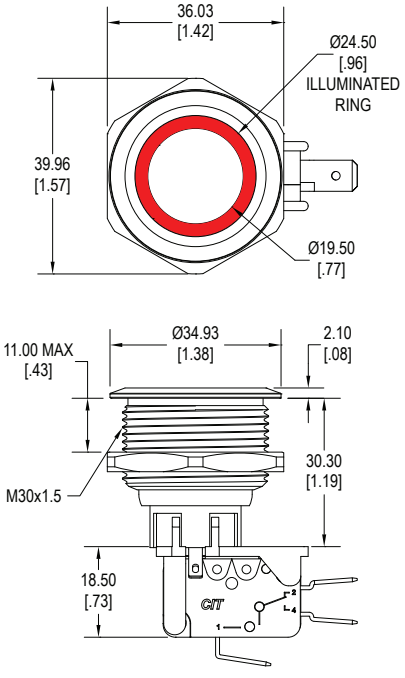


C - Flush, Dot Illuminated

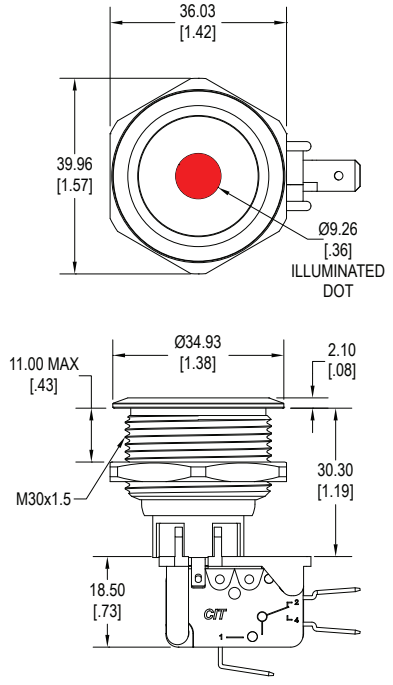
Dimensions - 30mm, Latching



A - Flush, Non-Illuminated



B - Flush, Ring Illuminated



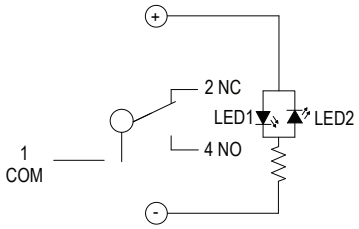
C - Flush, Dot Illuminated

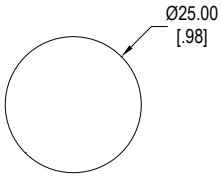
Dimensions shown in mm. Dimensions are shown for reference purposes only.
DHU Rev A 4/2022

Specifications and availability subject to change without notice.

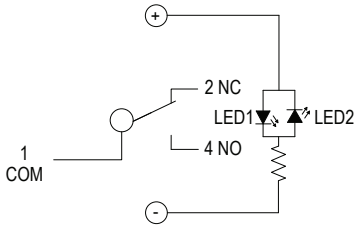
Schematic & Panel Cut-Out

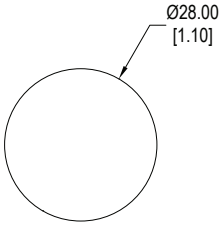
25mm



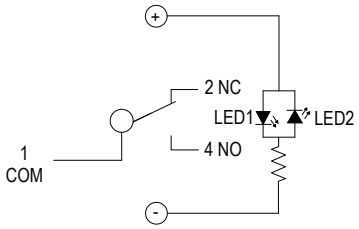


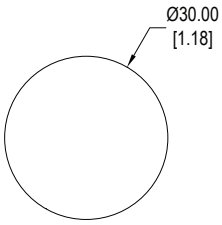
28mm





30mm



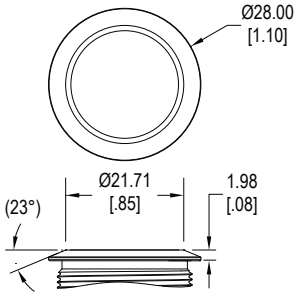


Dimensions shown in mm. Dimensions are shown for reference purposes only.
DHU Rev A 4/2022

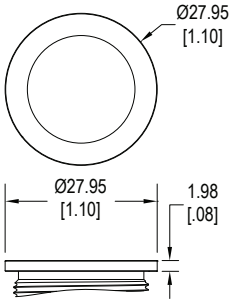
Specifications and availability subject to change without notice.

Bezel Detail

25mm

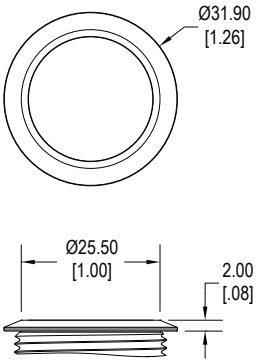


Standard

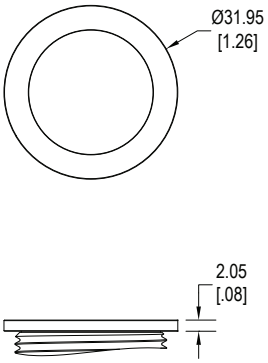


Straight

28mm

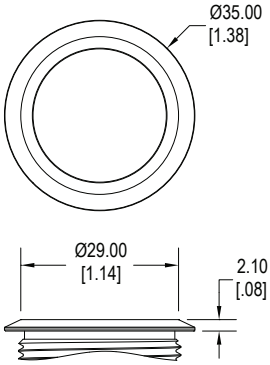


Standard

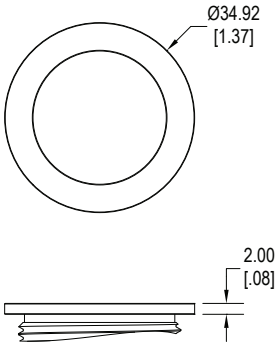


Straight

30mm



Standard



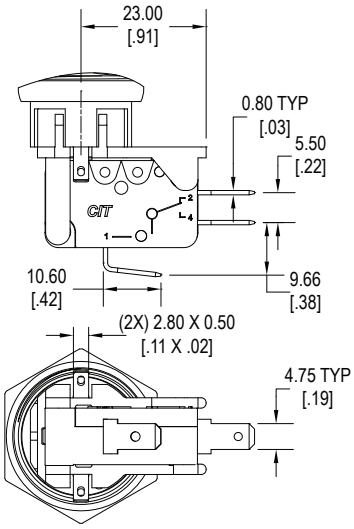
Straight

Dimensions shown in mm. Dimensions are shown for reference purposes only.
DHU Rev A 4/2022

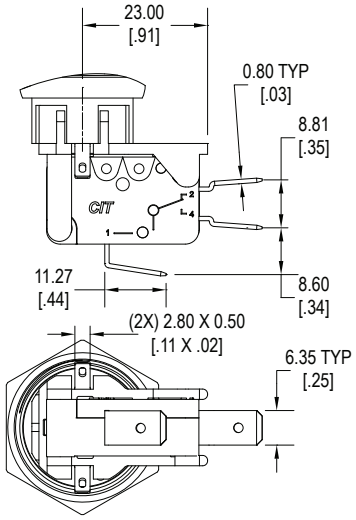
Specifications and availability subject to change without notice.

Terminal Detail

25mm

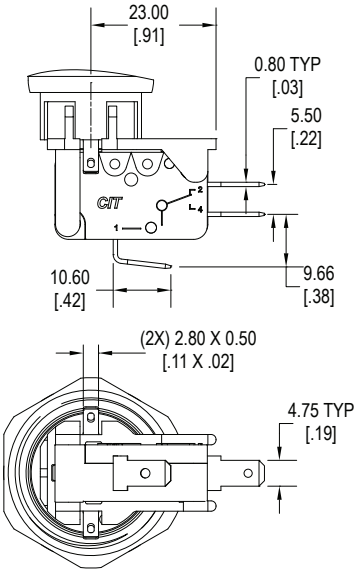


A = .187"
utilizing part number VM3CQF1802L00

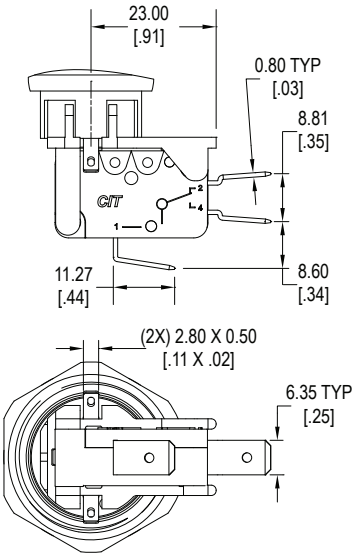


B = .250"
utilitizing part number VM3CQF1801L00

28mm



A = .187"
utilizing part number VM3CQF1802L00



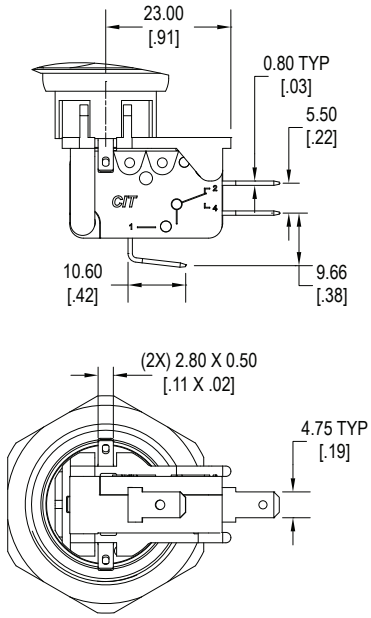
B = .250"
utilitizing part number VM3CQF1801L00

Dimensions shown in mm. Dimensions are shown for reference purposes only.
DHU Rev A 4/2022

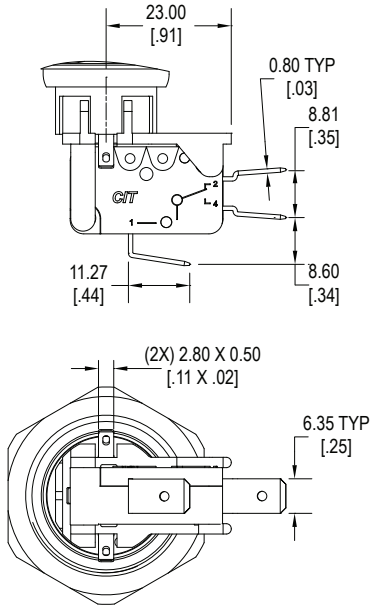
Specifications and availability subject to change without notice.

Terminal Detail - continued

30mm



A = .187"
utilizing part number VM3CQF1802L00



B = .250"
utilitizing part number VM3CQF1801L00

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 (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
Forward Voltage (typ) I_F = 20mA	V_F	2.1	2.1	3.3	3.3	2.0	3.0	V
Luminous Intensity, I_F = 20mA	LI	120	120	170	100	120	700	mcd

Dimensions shown in mm. Dimensions are shown for reference purposes only.
DHU Rev A 4/2022
Specifications and availability subject to change without notice.