CIT Relay & Switch DH

RoHS COMPLIANT

Illuminated Anti-Vandal Pushbutton — 22mm, 25mm, 30mm

Specifications

Electrical Ratings	20A @ 12VDC, Resistive, 25K cycles 10A @ 24VDC, Resistive, 50K cycles 10A @ 125VAC, Resistive, 25K cycles 5A @ 250VAC, Resistive, 25K cycles
Sealing Degree	IP67
Electrical Life	50,000 cycles typical
Contact Resistance	≤ 50mΩ initial

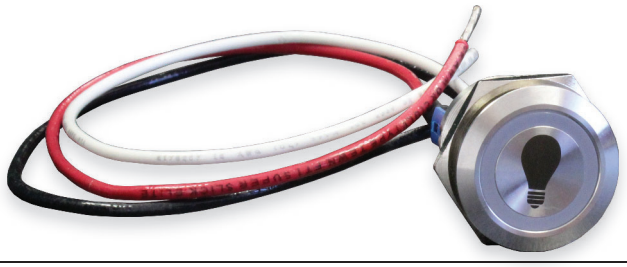
Actuation Force	550 ±50gF
Actuation Travel	2.5 ± .3mm
Dielectric Strength	2000Vrms min contact to contact 2000Vrms min contact to LED
Insulation Resistance	≥ 100MΩ min
Operating Temperature	-40ºC to +85ºC
Storage Temperature	-40ºC to +85ºC

Materials

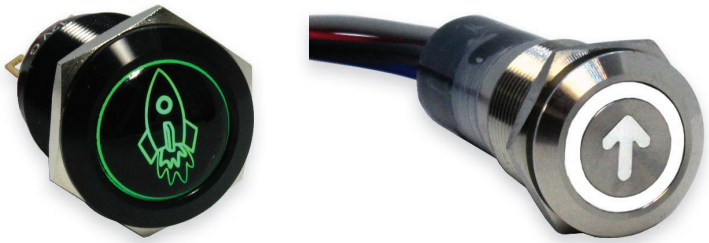
Actuator	Stainless Steel or Anodized Aluminum
LED Lens	Polycarbonate (PC)
Threaded Body	Stainless Steel or Anodized Aluminum
Terminal Support	Polybutylene Terephthalate (PBT)
Inner Switch Body	Polycarbonate (PC)
Contacts	Silver Alloy
Terminals	Brass, Epoxy Sealed
Hardware	One Hex Nut & One “O” Ring Supplied

Custom Capabilities Contact Factory

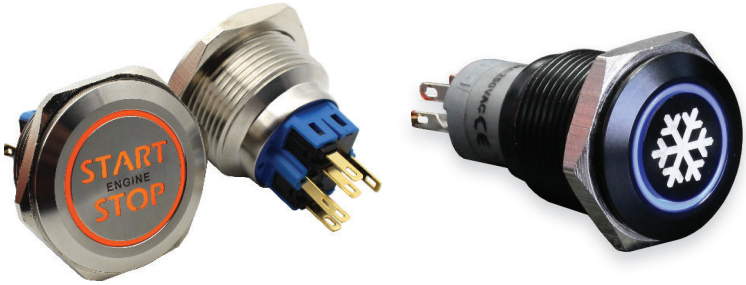
Cable Assemblies



Shine Through Symbols



Custom Laser Etching



Custom Plastic Convex Actuators

Ordering Information

1. Series	DH22	1		N	B	B	R	Z

1. Series
   - DH22 - 1 Pole only
   - DH25
   - DH30
   - ***Contact factory for 2 Pole DH22 option***

2. Number of Poles
   - 1 = SPST NO + SPST NC
   - 2 = DPST NO + DPST NC *not available with DH22*

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 illuminated
   - EC = Epoxy Convex actuator, *contact factory for details*
   - MR = Mushroom, red anodized aluminum *only available with DH22 & DH25*
   - MRC = Mushroom, red anodized aluminum, dot illuminated *only available with DH22 & DH25*
   - V = Flush Actuator, “Engine” laser etched, “Start” “Stop” illuminated *only available with DH30*

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
   - RGB *only available with DH22*
   - 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
   - N = No internal resistor in series with the LED
   - 6 = 6V
   - 12 = 12V
   - 24 = 24V
   - 110 = 110V
   - 220 = 220V

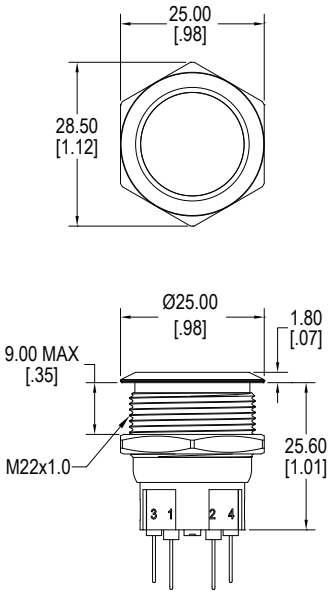
9. Terminal Option
   - Blank = .100” Quick Connect, standard
   - T = Screw Terminals, only available with 1 pole *not available on DH28*

OPTIONAL Socket Housing available

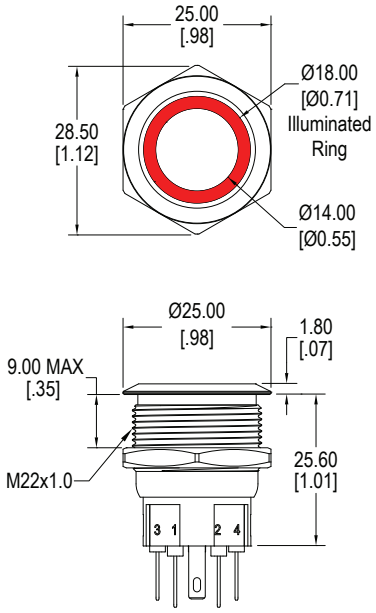
Dimensions

22mm, Single Pole only

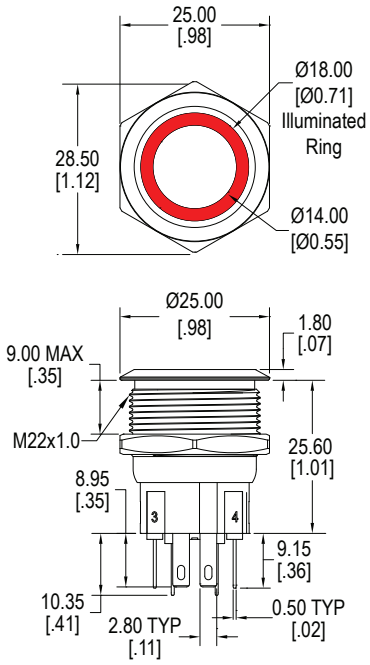
A Actuator, Momentary



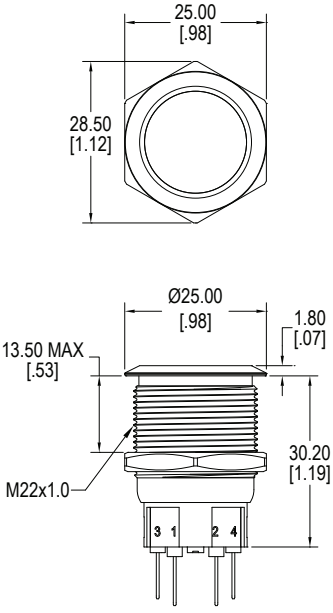
B Actuator, Momentary



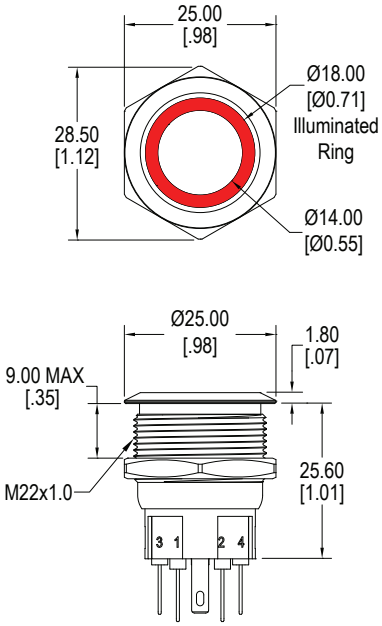
B Actuator, RBG, Momentary



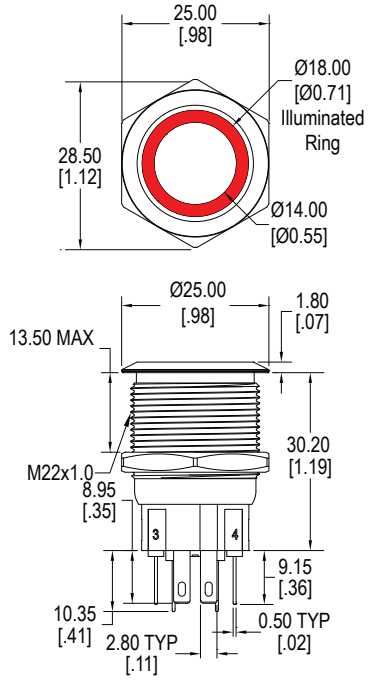
A Actuator, Latching



B Actuator, Latching



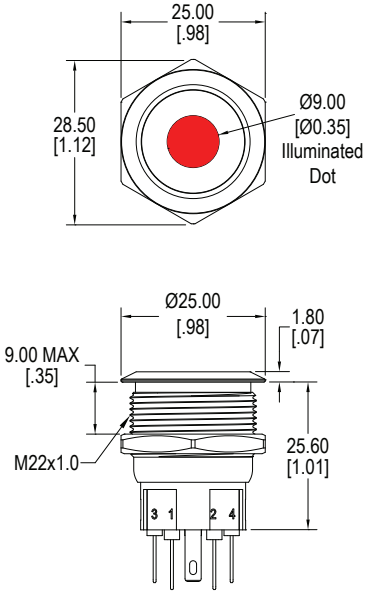
B Actuator, RGB, Latching



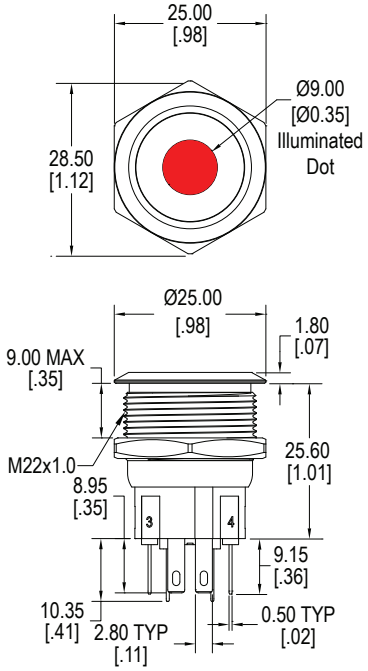
Dimensions

22mm, Single Pole only

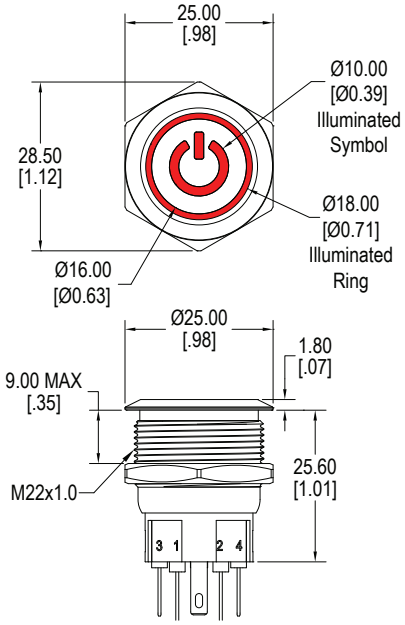
C Actuator, Momentary



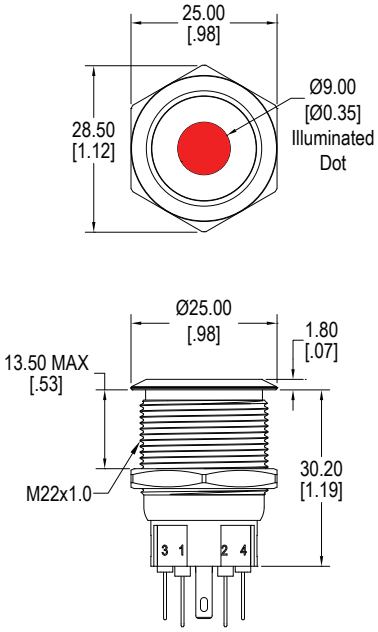
C Actuator, RGB, Momentary



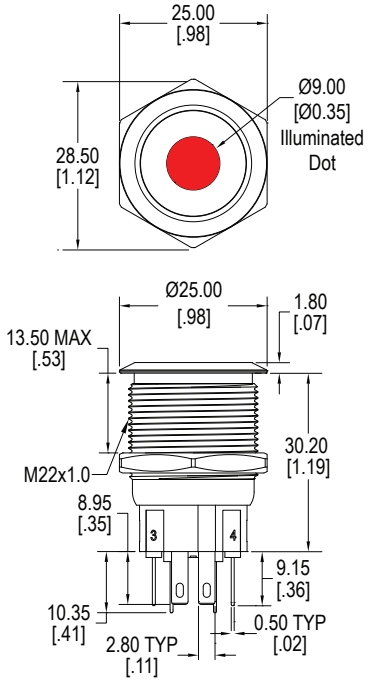
G Actuator, Momentary



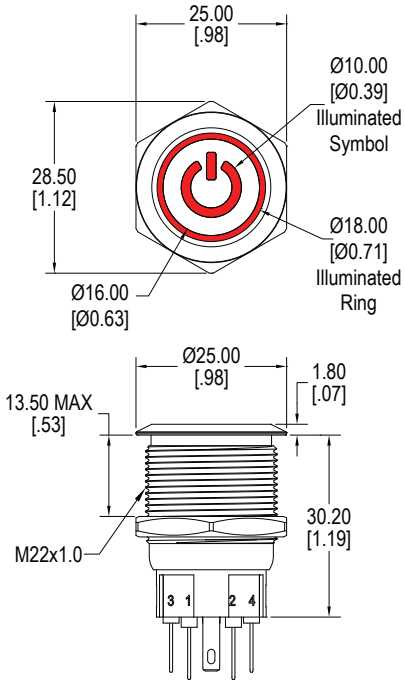
C Actuator, Latching



C Actuator, RGB, Latching



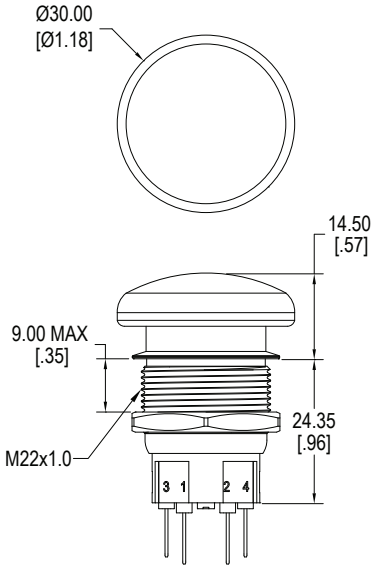
G Actuator, Latching



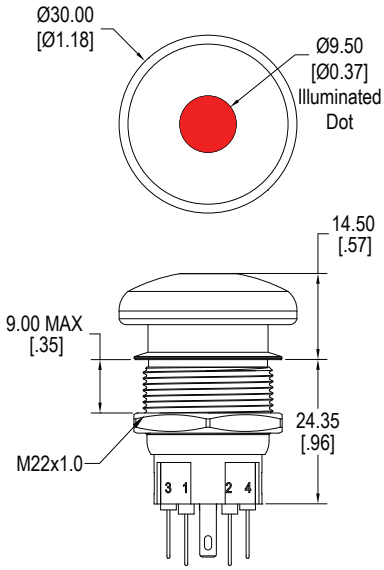
Dimensions

22mm, Single Pole only

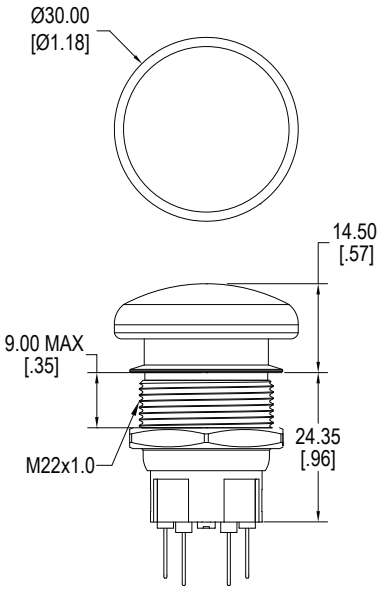
MR Actuator, Momentary



MRC Actuator, Momentary



MR Actuator, Latching



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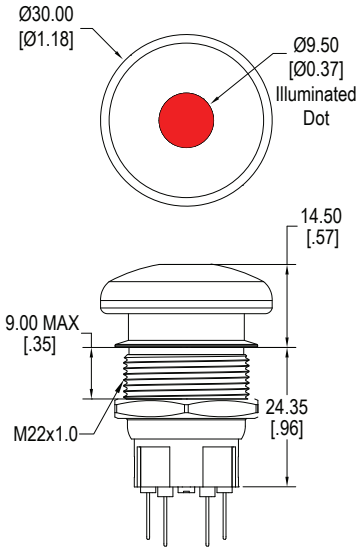
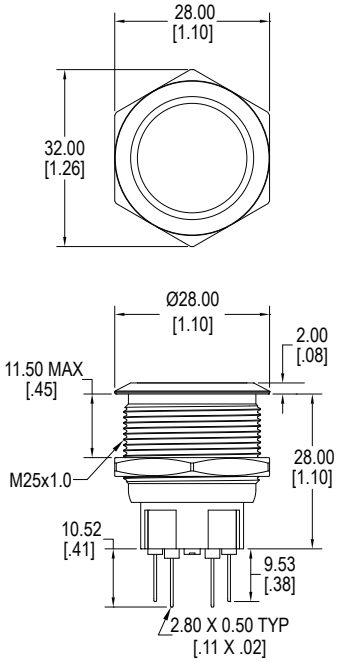


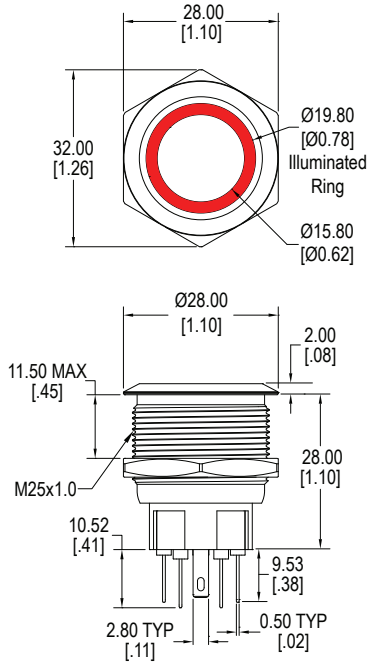
Dimensions

25mm, Single Pole or Double Pole

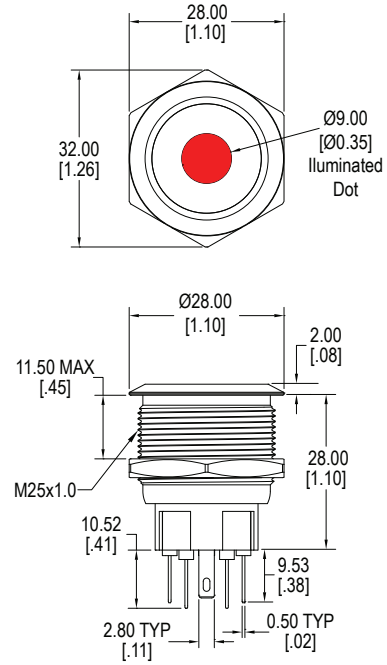
A Actuator, Momentary



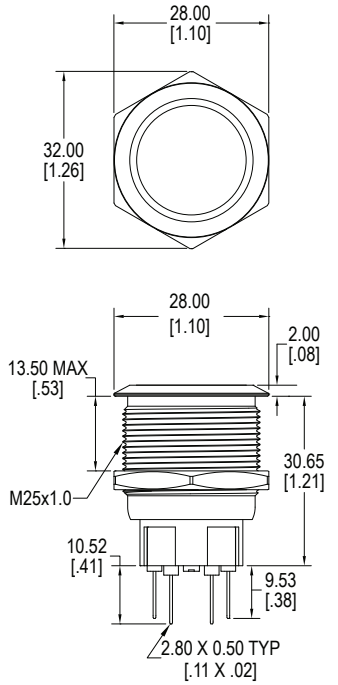
B Actuator, Momentary



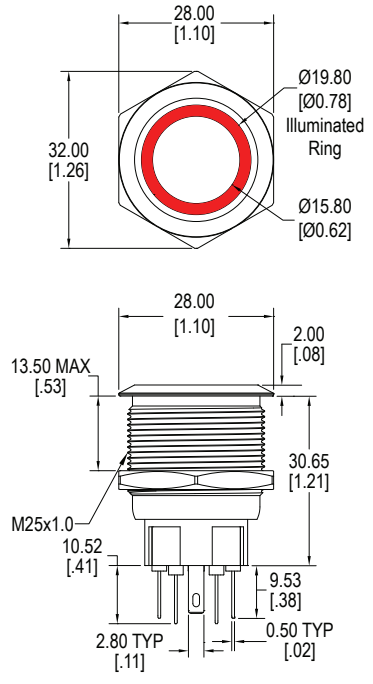
C Actuator, Momentary



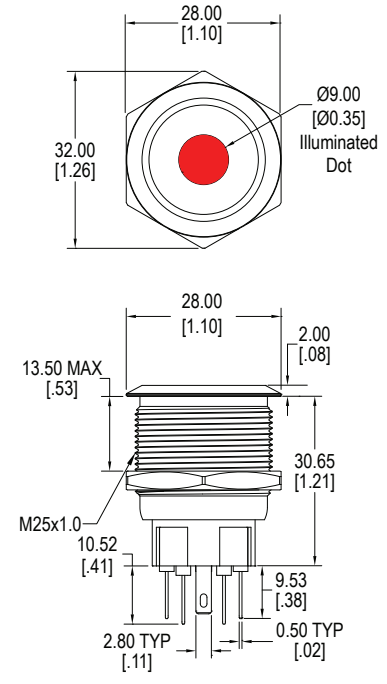
A Actuator, Latching



B Actuator, Latching



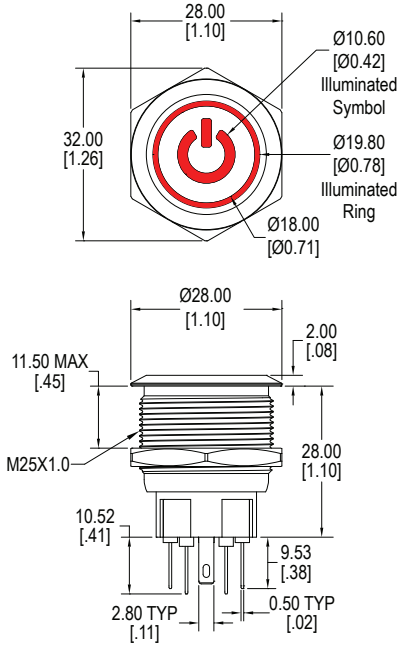
C Actuator, Latching



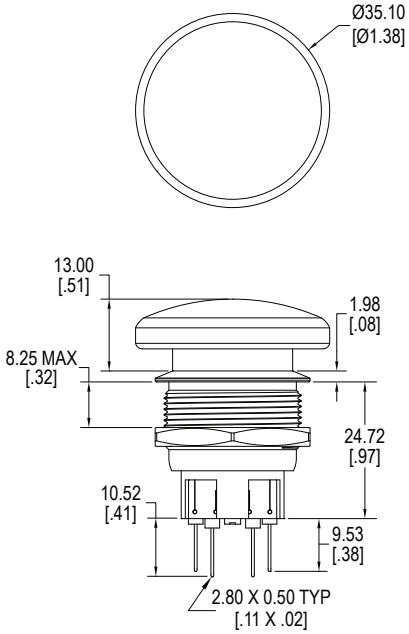
Dimensions

25mm, Single Pole or Double Pole

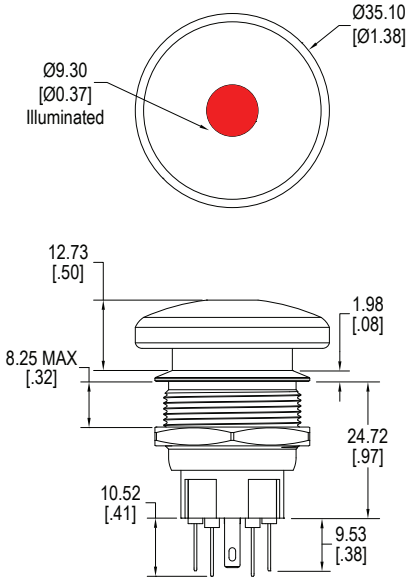
G Actuator, Momentary



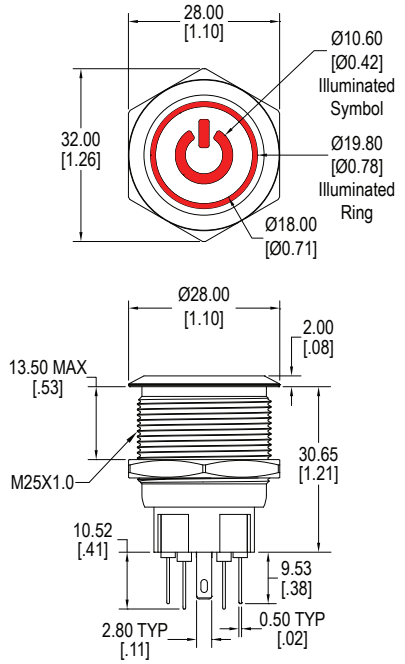
MR Actuator, Momentary



MRC Actuator, Momentary



G Actuator, Latching



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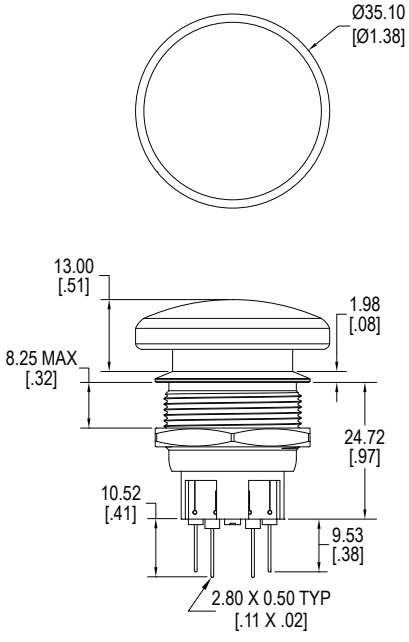

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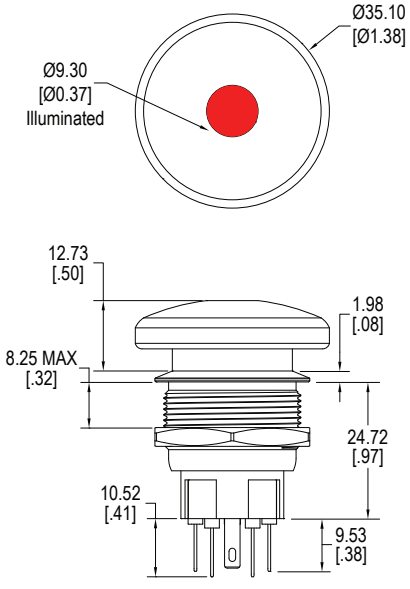
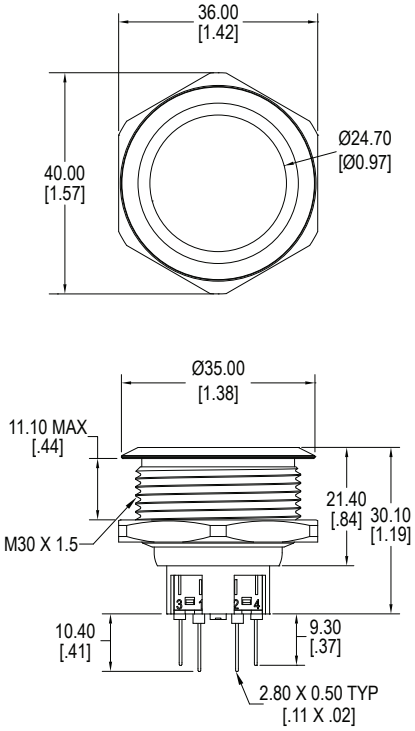


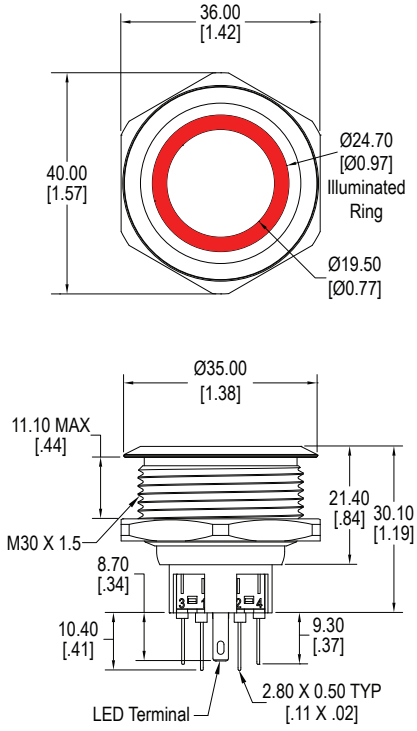
Dimensions

30mm, Single Pole or Double Pole

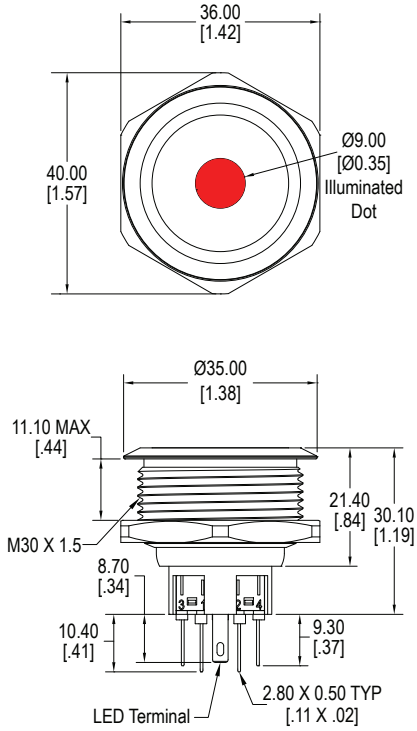
A Actuator, Momentary



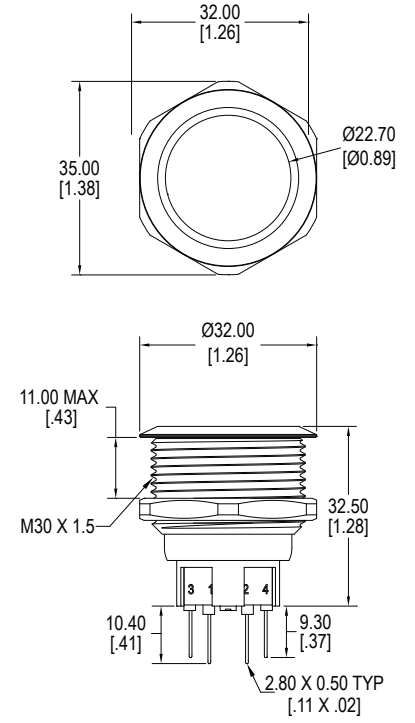
B Actuator, Momentary



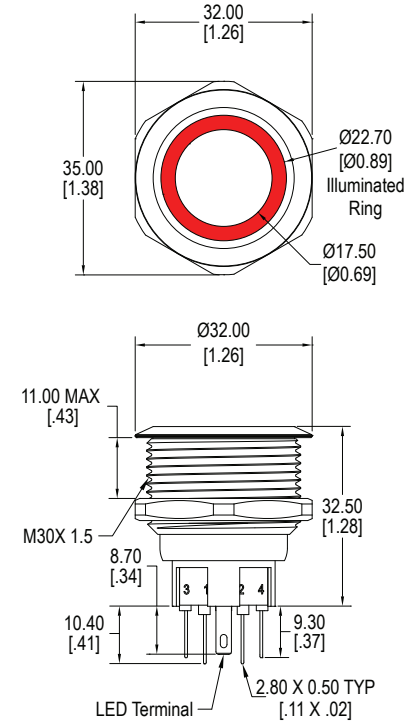
C Actuator, Momentary



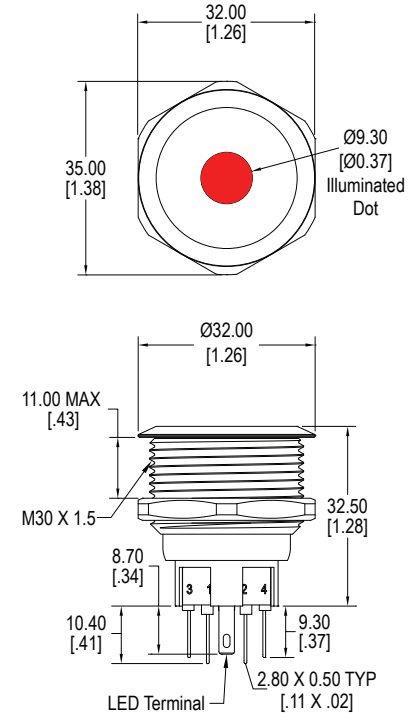
A Actuator, Latching



B Actuator, Latching



C Actuator, Latching



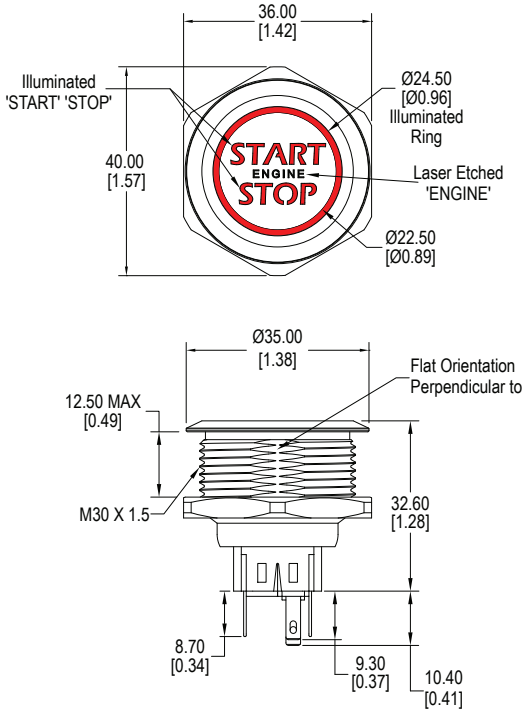
Dimensions are shown for reference purposes only.
Specifications and availability subject to change without notice.
DH Rev H 08/2024

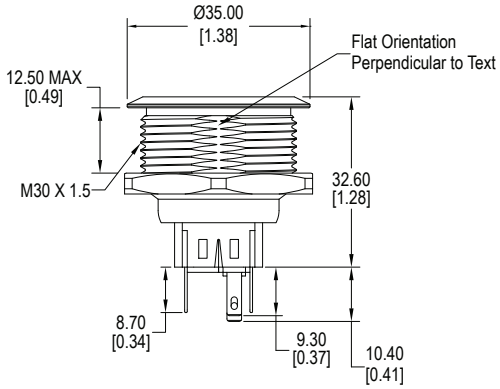
www.CITRelay.com
sales@CITRelay.com

Dimensions

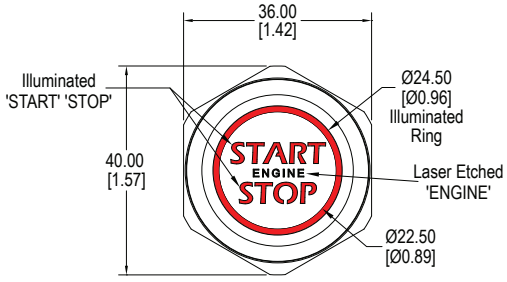
30mm, Single Pole or Double Pole

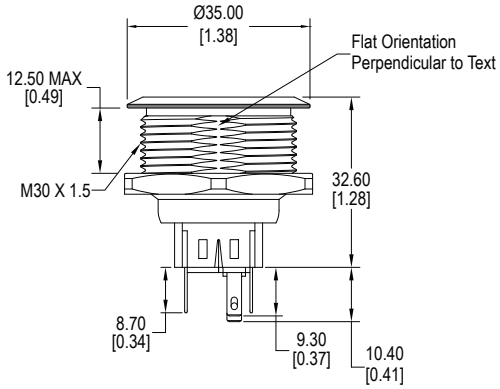
V Actuator, Momentary





V Actuator, Latching

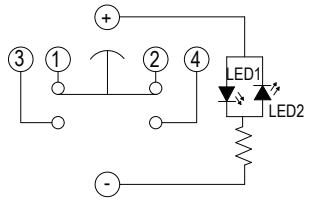




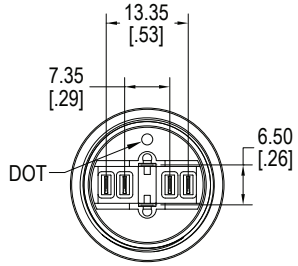
Schematics

22mm - available in Single Pole

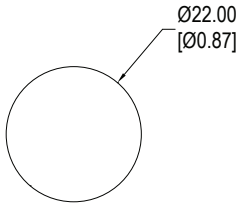
Schematic



Bottom View

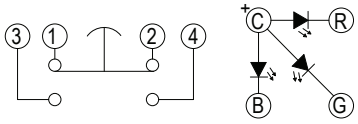


Panel Cutout

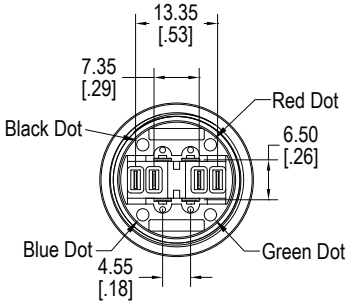


22mm RGB- available in Single Pole

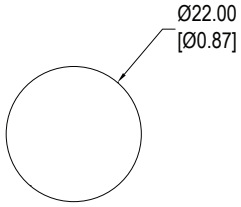
Schematic



Bottom View



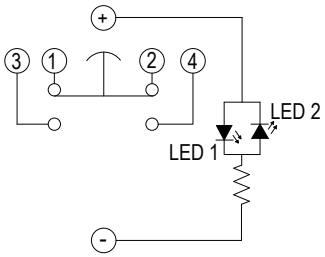
Panel Cutout



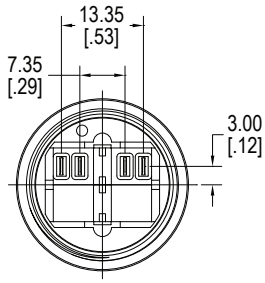
25mm - available in Single Pole or Double Pole

Single Pole

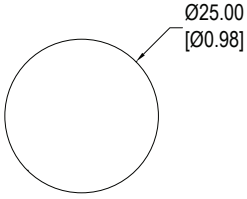
Schematic



Bottom View



Panel Cutout

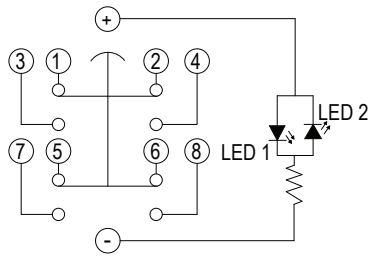


Schematics

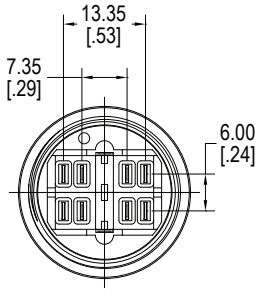
25mm - available in Single Pole or Double Pole

Double Pole

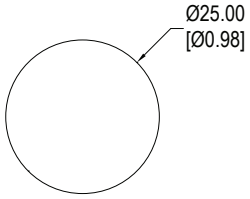
Schematic



Bottom View



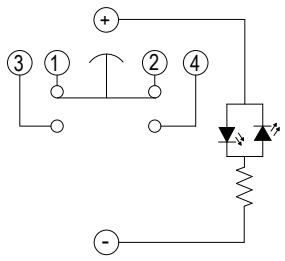
Panel Cutout



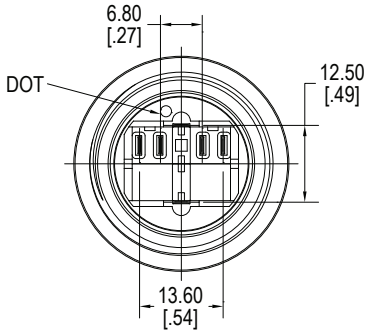
30mm - available in Single Pole or Double Pole

Single Pole

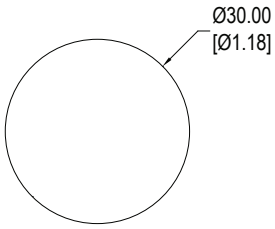
Schematic



Bottom View

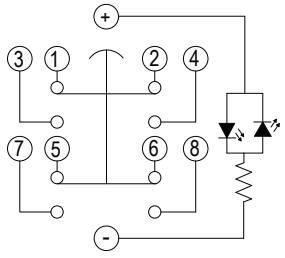


Panel Cutout

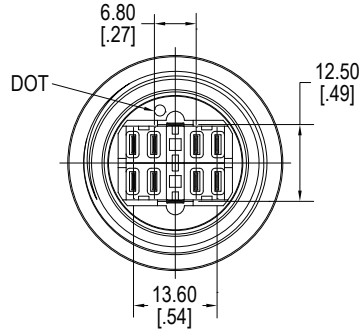


Double Pole

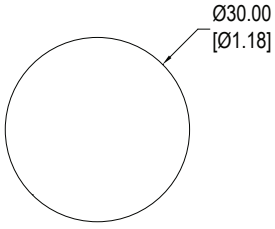
Schematic



Bottom View

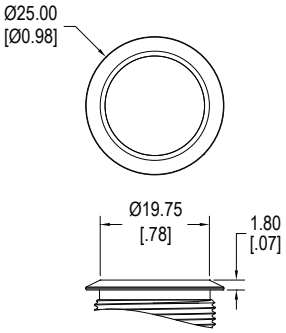


Panel Cutout

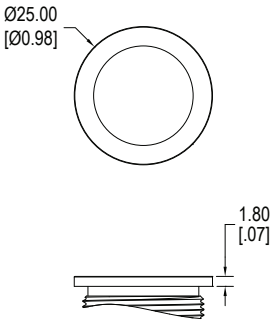


Bezel Detail

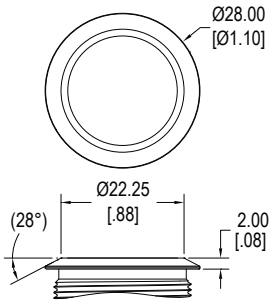
22mm Standard



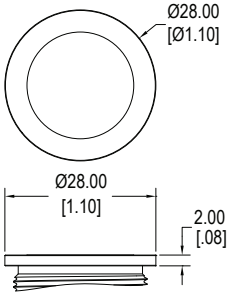
22mm Flat



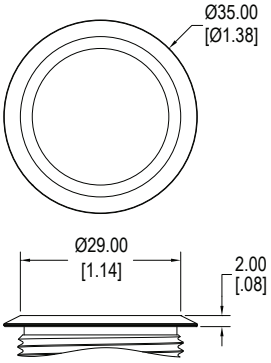
25mm Standard



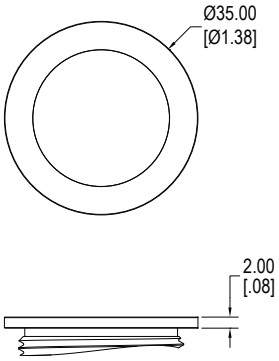
25mm Flat



30mm Standard

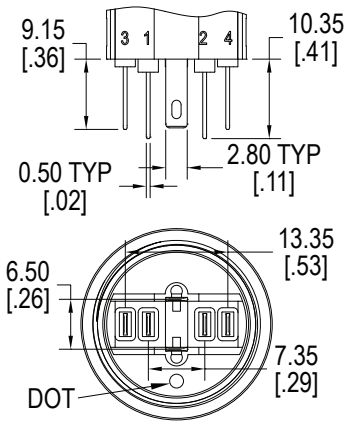


30mm Flat

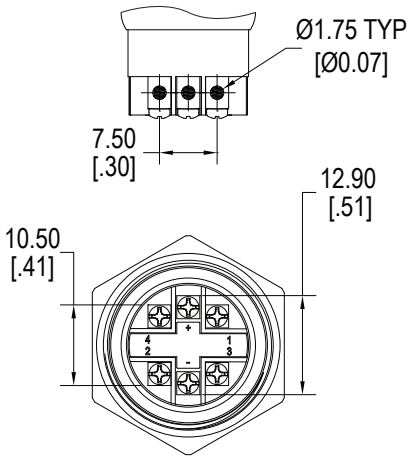


Terminal Options

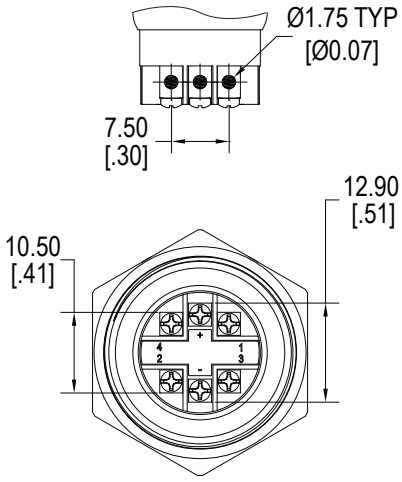
Quick Connect, Standard



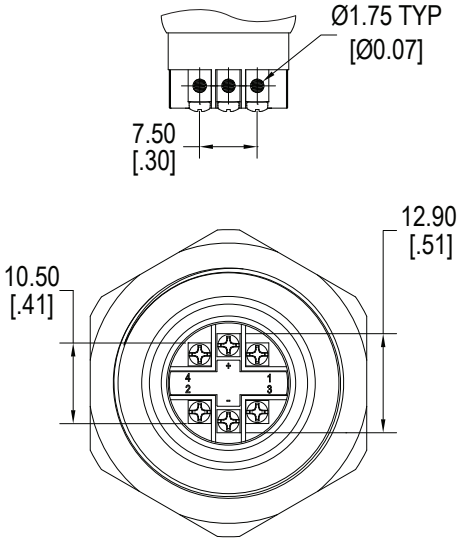
22mm Screw Terminals



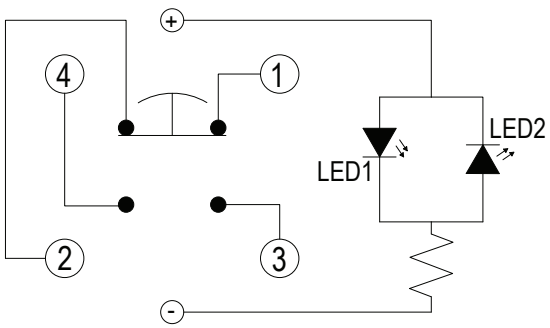
25mm Screw Terminals



30mm Screw Terminals

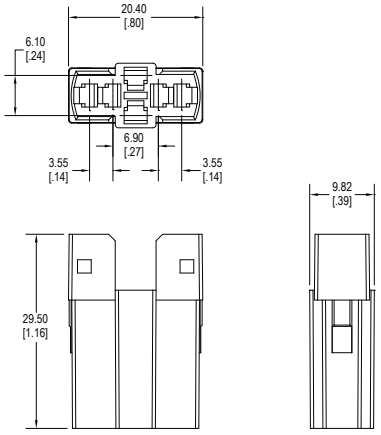


Screw Terminals Schematic

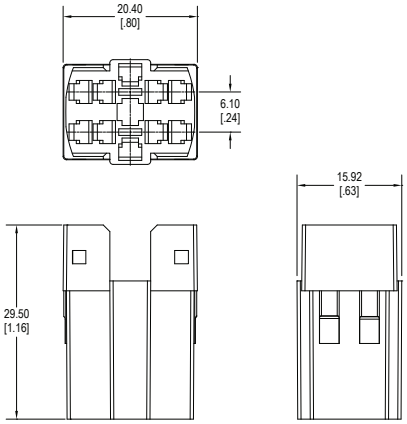


Optional Terminal Block

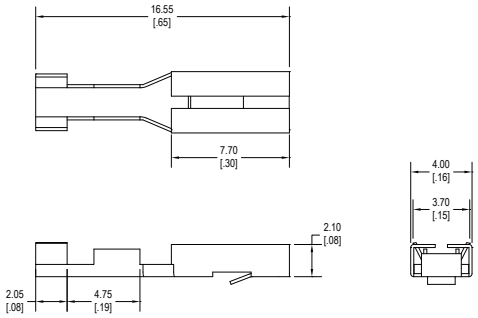
SS2001 - Use with DH22 only
not for use with RGB LED



SS2203 - Use with DH25 & DH30 only



SS Terminal



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