# Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Ratings</td>
<td>2A @ 24VDC</td>
</tr>
<tr>
<td></td>
<td>2A @ 125VAC</td>
</tr>
<tr>
<td></td>
<td>1A @ 250VAC</td>
</tr>
<tr>
<td>Sealing Degree</td>
<td>IP67</td>
</tr>
<tr>
<td>Electrical Life</td>
<td>50,000 cycles typical</td>
</tr>
<tr>
<td>Contact Resistance</td>
<td>≤ 50mΩ initial</td>
</tr>
<tr>
<td>Actuation Force</td>
<td>550 ±50gF</td>
</tr>
<tr>
<td>Actuation Travel</td>
<td>2.5 ± .3mm</td>
</tr>
<tr>
<td>Dielectric Strength</td>
<td>2000Vrms min contact to contact</td>
</tr>
<tr>
<td></td>
<td>2000Vrms min contact to LED</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>≥ 100MΩ min</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25°C to 70°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-25°C to 70°C</td>
</tr>
</tbody>
</table>

# Materials

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuator</td>
<td>Stainless Steel or Anodized Aluminum</td>
</tr>
<tr>
<td>LED Lens</td>
<td>Polycarbonate (PC)</td>
</tr>
<tr>
<td>Threaded Body</td>
<td>Stainless Steel or Anodized Aluminum</td>
</tr>
<tr>
<td>Terminal Support</td>
<td>Polybutylene Terephthalate (PBT)</td>
</tr>
<tr>
<td>Inner Switch Body</td>
<td>Polycarbonate (PC)</td>
</tr>
<tr>
<td>Contacts</td>
<td>Silver Alloy</td>
</tr>
<tr>
<td>Terminals</td>
<td>Brass, Epoxy Sealed</td>
</tr>
<tr>
<td>Hardware</td>
<td>One Hex Nut &amp; One &quot;O&quot; Ring Supplied</td>
</tr>
</tbody>
</table>

# Contact Factory for

- Cable Assembly
- Shine Through Symbols
- Plastic Convex Actuator
- Laser Etching

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Dimensions shown in mm. Dimensions are shown for reference purposes only.

Specifications and availability subject to change without notice.
### Ordering Information

**1. Series**
- DH22 - 1 Pole only
- DH25
- DH28
- 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

**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
- N = No internal resistor in series with the LED
- RGB = Red / Green / Blue dual LED
- 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**
- 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
Dimensions

22mm - Actuator Styles, available in Single Pole only

A Non-Latching

B Non-Latching

B Non-Latching RGB

A Latching

B Latching

B Latching RGB
Dimensions

22mm - Actuator Styles, available in Single Pole only

C Non-Latching

C Non-Latching RGB

G Non-Latching

C Latching

C Latching RGB

G Latching

Dimensions shown in mm. Dimensions are shown for reference purposes only.

Specifications and availability subject to change without notice.
Dimensions

22mm - Actuator Styles, available in Single Pole only

**MR Non-Latching**

- Ø30.00 [Ø1.18]
- 9.00 MAX [0.35]
- M22x1.0
- 24.35 [0.96]
- 14.50 [0.57]

**MR Latching**

- Ø30.00 [Ø1.18]
- 9.00 MAX [0.35]
- M22x1.0
- 24.35 [0.96]
- 14.50 [0.57]

**MRC Non-Latching**

- Ø9.50 [Ø0.37]
- Illuminated Dot
- Ø30.00 [Ø1.18]
- 9.00 MAX [0.35]
- M22x1.0
- 24.35 [0.96]
- 14.50 [0.57]

**MRC Latching**

- Ø9.50 [Ø0.37]
- Illuminated Dot
- Ø30.00 [Ø1.18]
- 9.00 MAX [0.35]
- M22x1.0
- 24.35 [0.96]
- 14.50 [0.57]

Dimensions shown in mm. Dimensions are shown for reference purposes only.
Specifications and availability subject to change without notice.
Illuminated Pushbutton

**DH**

**Dimensions**

**25mm - Actuator Styles, available in Single Pole & Double Pole**

**A Non-Latching**

**B Non-Latching**

**C Non-Latching**

**A Latching**

**B Latching**

**C Latching**

Dimensions shown in mm. Dimensions are shown for reference purposes only.

Specifications and availability subject to change without notice.
### Dimensions

**25mm - Actuator Styles, available in Single Pole & Double Pole**

<table>
<thead>
<tr>
<th>Style</th>
<th>Dimensions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>G Non-Latching</strong></td>
<td>Ø28.00 [1.10]</td>
<td>Ø10.60 [Ø0.42] Illuminated Symbol Ø19.80 [Ø0.76] Illuminated Ring Ø18.00 [Ø0.71]</td>
</tr>
<tr>
<td><strong>MR Non-Latching</strong></td>
<td>Ø35.10 [Ø1.38]</td>
<td>Ø9.30 [Ø0.37] Illuminated</td>
</tr>
<tr>
<td><strong>MRC Non-Latching</strong></td>
<td>Ø35.10 [Ø1.38]</td>
<td>Ø9.30 [Ø0.37] Illuminated</td>
</tr>
<tr>
<td><strong>G Latching</strong></td>
<td>Ø28.00 [1.10]</td>
<td>Ø10.60 [Ø0.42] Illuminated Symbol Ø19.80 [Ø0.76] Illuminated Ring Ø18.00 [Ø0.71]</td>
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<tr>
<td><strong>MR Latching</strong></td>
<td>Ø35.10 [Ø1.38]</td>
<td>Ø9.30 [Ø0.37] Illuminated</td>
</tr>
<tr>
<td><strong>MRC Latching</strong></td>
<td>Ø35.10 [Ø1.38]</td>
<td>Ø9.30 [Ø0.37] Illuminated</td>
</tr>
</tbody>
</table>

Dimensions shown in mm. Dimensions are shown for reference purposes only.
Dimensions

**28mm - Actuator Styles, available in Single Pole & Double Pole**

- **A Non-Latching**
- **B Non-Latching**
- **C Non-Latching**

- **A Latching**
- **B Latching**
- **C Latching**

Dimensions shown in mm. Dimensions are shown for reference purposes only.
**Dimensions**

30mm - Actuator Styles, available in Single Pole & Double Pole

<table>
<thead>
<tr>
<th>Style</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A  Non-Latching</strong></td>
<td>Ø35.00 [1.38]</td>
</tr>
<tr>
<td>M30 X 1.5</td>
<td>2.54 [10]</td>
</tr>
<tr>
<td>9.30 [0.37]</td>
<td></td>
</tr>
<tr>
<td>2.80 X 0.50 TYP [11 X .02]</td>
<td></td>
</tr>
<tr>
<td><strong>B  Non-Latching</strong></td>
<td>Ø35.00 [1.38]</td>
</tr>
<tr>
<td>M30 X 1.5</td>
<td>2.54 [10]</td>
</tr>
<tr>
<td>9.30 [0.37]</td>
<td></td>
</tr>
<tr>
<td>2.80 X 0.50 TYP [11 X .02]</td>
<td></td>
</tr>
<tr>
<td><strong>C  Non-Latching</strong></td>
<td>Ø35.00 [1.38]</td>
</tr>
<tr>
<td>M30 X 1.5</td>
<td>2.54 [10]</td>
</tr>
<tr>
<td>9.30 [0.37]</td>
<td></td>
</tr>
<tr>
<td>2.80 X 0.50 TYP [11 X .02]</td>
<td></td>
</tr>
</tbody>
</table>

| **A  Latching** | Ø32.00 [1.26] |
| M28 X 1.5 | 2.54 [10] |
| 9.30 [0.37] |
| 2.80 X 0.50 TYP [11 X .02] |
| **B  Latching** | Ø32.00 [1.26] |
| M28 X 1.5 | 2.54 [10] |
| 9.30 [0.37] |
| 2.80 X 0.50 TYP [11 X .02] |
| **C  Latching** | Ø32.00 [1.26] |
| M28 X 1.5 | 2.54 [10] |
| 9.30 [0.37] |
| 2.80 X 0.50 TYP [11 X .02] |

Dimensions shown in mm. Dimensions are shown for reference purposes only.

Specifications and availability subject to change without notice.
Schematics

22mm - available in Single Pole

22mm RGB - available in Single Pole

25mm - available in Single Pole & Double Pole

Single Pole
Schematics

25mm - available in Single Pole & Double Pole

Double Pole

28mm - available in Single Pole & Double Pole

Single Pole

Double Pole
Schematics

30mm - available in Single Pole & Double Pole

Single Pole

![Schematic](image1)

![Bottom View](image2)

![Panel Cut-Out](image3)

Double Pole

![Schematic](image4)

![Bottom View](image5)

![Panel Cut-Out](image6)
Bezel Detail

22mm Standard

22mm Flat

25mm Standard

25mm Flat

28 Standard

28mm Flat

30mm Standard

30mm Flat
Terminal Options

Quick Connect - standard

Screw Terminals - 22mm

Screw Terminals - 25mm

Screw Terminals - 30mm

Screw Terminal Schematic

Dimensions shown in mm. Dimensions are shown for reference purposes only.
Specifications and availability subject to change without notice.
Optional Terminal Block

LED Characteristics

<table>
<thead>
<tr>
<th>LED Ratings</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse Voltage</td>
<td>V&lt;sub&gt;R&lt;/sub&gt;</td>
</tr>
<tr>
<td>Forward Current (peak)</td>
<td>I&lt;sub&gt;Fs&lt;/sub&gt;</td>
</tr>
<tr>
<td>Reverse Current V&lt;sub&gt;R&lt;/sub&gt; = 5V</td>
<td>I&lt;sub&gt;R&lt;/sub&gt;</td>
</tr>
<tr>
<td>Power Dissipation</td>
<td>P&lt;sub&gt;T&lt;/sub&gt;</td>
</tr>
<tr>
<td>Forward Voltage (typ) I&lt;sub&gt;F&lt;/sub&gt; = 20mA</td>
<td>V&lt;sub&gt;F&lt;/sub&gt;</td>
</tr>
<tr>
<td>Luminous Intensity, I&lt;sub&gt;F&lt;/sub&gt; = 20mA</td>
<td>L&lt;sub&gt;I&lt;/sub&gt;</td>
</tr>
</tbody>
</table>