Specifications

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

Materials

<table>
<thead>
<tr>
<th>Materials</th>
<th>Stainless Steel or Anodized Aluminum</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:
- UL Approved limited option version
- Cable Assembly
- Plastic Convex Actuator
- Shine Through Symbols
- Laser Etching

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

## 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
- MR = Mushroom, red anodized aluminum (only available with DH22 & DH25 momentary)
- MRC = Mushroom, red anodized aluminum, dot illuminated (only available with DH22 momentary)

## 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 = 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
- OB = Orange / Blue dual LED
- YB = Yellow / Blue dual LED
- YG = Yellow / Green 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

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Dimensions

**22mm - Actuator Styles, available in Single Pole only**

<table>
<thead>
<tr>
<th>Style</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Non-Latching</td>
<td><img src="image1" alt="A Non-Latching Diagram" /></td>
</tr>
<tr>
<td>B Non-Latching</td>
<td><img src="image2" alt="B Non-Latching Diagram" /></td>
</tr>
<tr>
<td>B Non-Latching RGB</td>
<td><img src="image3" alt="B Non-Latching RGB Diagram" /></td>
</tr>
<tr>
<td>A Latching</td>
<td><img src="image4" alt="A Latching Diagram" /></td>
</tr>
<tr>
<td>B Latching</td>
<td><img src="image5" alt="B Latching Diagram" /></td>
</tr>
<tr>
<td>B Latching RGB</td>
<td><img src="image6" alt="B Latching RGB Diagram" /></td>
</tr>
</tbody>
</table>

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

Specifications and availability subject to change without notice.
Illuminated Pushbutton

Dimensions

22mm - Actuator Styles, available in Single Pole only

- **C Non-Latching**
  - Ø9.00 [.35] ILLUMINATED DOT
  - 28.87 [1.14]
  - 25.00 [.98]
  - 9.00 MAX [.35]
  - M22x1.0

- **C Non-Latching RGB**
  - Ø25.04 [.99]
  - 1.50 [.06]
  - 9.00 MAX [.35]
  - 25.55 [.10]
  - M22x1.0

- **G Non-Latching**
  - Ø9.68 [.38] ILLUMINATED SYMBOL
  - 24.91 [.98]
  - 1.24 [.05]
  - 9.00 MAX [.35]
  - 25.70 [.10]
  - M22x1.0

- **C Latching**
  - Ø24.91 [.98]
  - 1.24 [.05]
  - 13.50 MAX [.53]
  - 30.70 [.12]
  - M22x1.0

- **C Latching RGB**
  - Ø24.91 [.98]
  - 1.24 [.05]
  - 13.50 MAX [.53]
  - 30.70 [.12]
  - M22x1.0

- **G Latching**
  - Ø9.68 [.38] ILLUMINATED SYMBOL
  - 24.91 [.98]
  - 1.24 [.05]
  - 13.50 MAX [.53]
  - 30.70 [.12]
  - M22x1.0

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

MRC Non-Latching
Illuminated Pushbutton

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

G Non-Latching

MR Non-Latching

G Latching

Specifications and availability subject to change without notice.
Illuminated Pushbutton

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

Specifications and availability subject to change without notice.

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

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

A Non-Latching

B Non-Latching

C Non-Latching

A Latching

B Latching

C Latching

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Specifications and availability subject to change without notice.
**Schematics**

**22mm - available in Single Pole**

![22mm - available in Single Pole Schematic](image1)

![22mm - available in Single Pole Bottom View](image2)

![22mm - available in Single Pole Panel Cut-Out](image3)

**22mm RGB - available in Single Pole**

![22mm RGB - available in Single Pole Schematic](image4)

![22mm RGB - available in Single Pole Bottom View](image5)

![22mm RGB - available in Single Pole Panel Cut-Out](image6)

**25mm - available in Single Pole & Double Pole**

**Single Pole**

![25mm - available in Single Pole & Double Pole Schematic](image7)

![25mm - available in Single Pole & Double Pole Bottom View](image8)

![25mm - available in Single Pole & Double Pole Panel Cut-Out](image9)
Schematics

25mm - available in Single Pole & Double Pole

Double Pole

28mm - available in Single Pole & Double Pole

Single Pole

Double Pole

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

30mm - available in Single Pole & Double Pole

Single Pole

Schematic

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

**Bezel Detail**

- **22mm Standard**
  - Ø24.91 [0.98]
  - Ø20.25 [0.80]
  - 1.24 [0.05]
  - 18°

- **22mm Flat**
  - Ø24.94 [0.98]
  - Ø21.71 [0.85]
  - 1.82 [0.07]
  - (23°)

- **25mm Standard**
  - Ø28.00 [1.10]
  - Ø27.95 [1.10]
  - 1.98 [0.08]

- **25mm Flat**
  - Ø27.95 [1.10]

- **28mm Standard**
  - Ø31.90 [1.26]
  - Ø25.60 [1.00]
  - 2.00 [0.08]

- **28mm Flat**
  - Ø31.95 [1.26]
  - Ø29.00 [1.14]
  - 2.10 [0.08]

- **30mm Standard**
  - Ø35.00 [1.38]
  - Ø34.92 [1.37]
  - 2.05 [0.08]

- **30mm Flat**
  - Ø34.92 [1.37]

**Terminal Options**

- **Quick Connect - standard**
  - 9.15 [0.36]
  - 0.50 TYP [0.02]
  - 6.50 [0.26]
  - DOT
  - 10.35 [0.41]
  - 2.80 TYP [0.11]
  - 7.35 [0.29]
  - 13.35 [0.53]

- **Screw Terminals only available with 1 pole**
  - Ø1.75 TYP [0.07]
  - 12.90 [0.51]
  - 10.50 [0.41]
  - 7.50 [0.30]

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

Specifications and availability subject to change without notice.
**Illuminated Pushbutton**

**Optional Terminal Block**

**LED Characteristics**

<table>
<thead>
<tr>
<th>LED Ratings</th>
<th>R</th>
<th>Y</th>
<th>G</th>
<th>B</th>
<th>O</th>
<th>W</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse Voltage</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>Forward Current (peak)</td>
<td>120</td>
<td>120</td>
<td>160</td>
<td>160</td>
<td>120</td>
<td>160</td>
<td>mA</td>
</tr>
<tr>
<td>Reverse Current $V_R = 5V$</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>μA</td>
</tr>
<tr>
<td>Power Dissipation</td>
<td>80</td>
<td>80</td>
<td>120</td>
<td>120</td>
<td>80</td>
<td>120</td>
<td>mW</td>
</tr>
<tr>
<td>Forward Voltage (typ) $I_F = 20mA$</td>
<td>2.1</td>
<td>2.1</td>
<td>3.3</td>
<td>3.3</td>
<td>2.0</td>
<td>3.0</td>
<td>V</td>
</tr>
<tr>
<td>Luminous Intensity, $I_F = 20mA$</td>
<td>120</td>
<td>120</td>
<td>170</td>
<td>100</td>
<td>120</td>
<td>700</td>
<td>mcd</td>
</tr>
</tbody>
</table>