

Activated by the touch of a finger, our **Capacitive Switches** are ideal for many repetitive applications requiring a **rugged sealed** and **easy** to use switch solution.



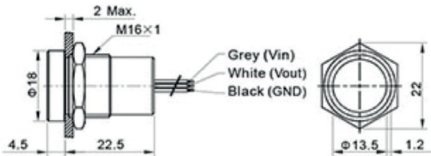
- ⬢ Sealed to IP68 and IP69K
- ⬢ Momentary or latching functions
- ⬢ Large or thin ring illumination options
- ⬢ Long life operation – 50 million of cycles
- ⬢ 16, 19, 22 or 25mm diameter options
- ⬢ Easy to use and clean
- ⬢ Extremely robust and durable – IK10 rated
- ⬢ No operating force required – ideal for repetitive applications
- ⬢ Activated by the touch of a finger – even with surgeon gloves
- ⬢ Natural, black and red anodised options as well as 316L stainless steels

16mm Illuminated



MC16

- ⬡ Illuminated
- ⬡ 300 mm lead

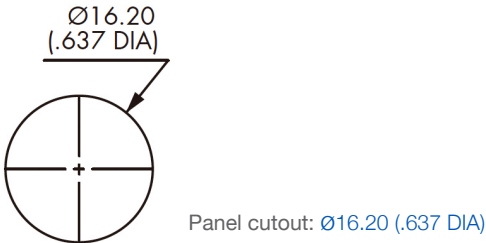


Specification

MC16

|                                   |                                                                                                    |
|-----------------------------------|----------------------------------------------------------------------------------------------------|
| Type                              | Momentary / Latching                                                                               |
| Materials                         | Case: Aluminium, Anodised and Stainless Steel                                                      |
|                                   | Multi-wire leads setion 0.22mm <sup>2</sup> (length 300mm)                                         |
| Maximum Current / Voltage Rating: | 500mA at 5V, 12V or 24VDC                                                                          |
| Supply Voltage                    | 5, 12 or 24 VDC                                                                                    |
| Contact Resistance                | 20mΩ                                                                                               |
| LED state for output image option | 1 LED: The LED is ON when output is closed.                                                        |
|                                   | 2 LEDs: First colour is ON when the output is open. Second colour is ON when the output is closed. |
| Actuating force, typically        | Zero Newton's (Touch Sensitive)                                                                    |
| Life cycle                        | >50 Million                                                                                        |

Panel Cutout Dimensions



Environmental Specification

|                       |                                      |
|-----------------------|--------------------------------------|
| Sealing               | IP68 (2m depth for >30mins)<br>IP69K |
| Operating temperature | -25°C to +55°C                       |
| RoHS                  | Compliant                            |

Circuit Specification

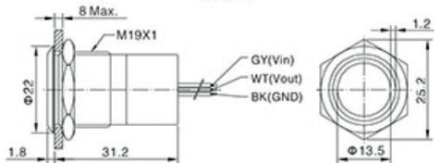
See wiring diagrams on page 41

19mm Illuminated



MC19

- Illuminated
- 300 mm lead

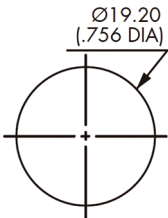


Specification

MC19

|                                   |                                                                                                    |
|-----------------------------------|----------------------------------------------------------------------------------------------------|
| Type                              | Momentary / Latching                                                                               |
| Materials                         | Case: Aluminium, Anodised and Stainless Steel                                                      |
|                                   | Multi-wire leads setion 0.22mm <sup>2</sup> (length 300mm)                                         |
| Maximum Current / Voltage Rating: | 500mA at 5V, 12V or 24VDC                                                                          |
| Supply Voltage                    | 5, 12 or 24 VDC                                                                                    |
| Contact Resistance                | 20mΩ                                                                                               |
| LED state for output image option | 1 LED: The LED is ON when output is closed.                                                        |
|                                   | 2 LEDs: First colour is ON when the output is open. Second colour is ON when the output is closed. |
| Actuating force, typically        | Zero Newton's (Touch Sensitive)                                                                    |
| Life cycle                        | >50 Million                                                                                        |

Panel Cutout Dimensions



Panel cutout: Ø19.20 (.756 DIA)

Environmental Specification

|                       |                                      |
|-----------------------|--------------------------------------|
| Sealing               | IP68 (2m depth for >30mins)<br>IP69K |
| Operating temperature | -25°C to +55°C                       |
| RoHS                  | Compliant                            |

Circuit Specification

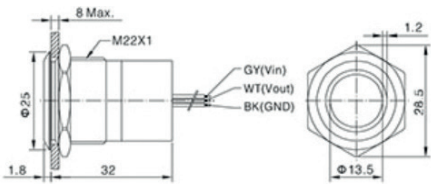
See wiring diagrams on page 41

22mm Illuminated



MC22

- ⬡ Illuminated
- ⬡ 300 mm lead

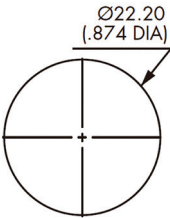


Specification

MC22

|                                   |                                                                                                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                              | Momentary / Latching                                                                                                                                  |
| Materials                         | Case: Aluminium, Anodised and Stainless Steel<br><br>Multi-wire leads setion 0.22mm <sup>2</sup> (length 300mm)                                       |
| Maximum Current / Voltage Rating: | 500mA at 5V, 12V or 24VDC                                                                                                                             |
| Supply Voltage                    | 5, 12 or 24 VDC                                                                                                                                       |
| Contact Resistance                | 20mΩ                                                                                                                                                  |
| LED state for output image option | 1 LED: The LED is ON when output is closed.<br><br>2 LEDs: First colour is ON when the output is open. Second colour is ON when the output is closed. |
| Actuating force, typically        | Zero Newton's (Touch Sensitive)                                                                                                                       |
| Life cycle                        | >50 Million                                                                                                                                           |

Panel Cutout Dimensions



Panel cutout: Ø22.20 (.874 DIA)

Environmental Specification

|                       |                                      |
|-----------------------|--------------------------------------|
| Sealing               | IP68 (2m depth for >30mins)<br>IP69K |
| Operating temperature | -25°C to +55°C                       |
| RoHS                  | Compliant                            |

Circuit Specification

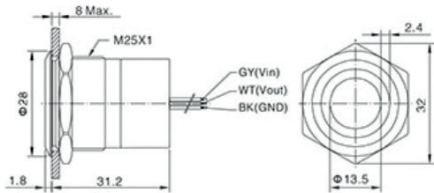
See wiring diagrams on page 41

25mm Illuminated



MC25

- ⬡ Illuminated
- ⬡ 300 mm lead

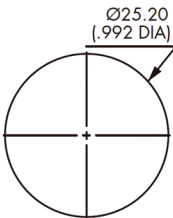


### Specification

### MC25

|                                   |                                                                                                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                              | Momentary / Latching                                                                                                                                  |
| Materials                         | Case: Aluminium, Anodised and Stainless Steel<br><br>Multi-wire leads setion 0.22mm <sup>2</sup> (length 300mm)                                       |
| Maximum Current / Voltage Rating: | 500mA at 5V, 12V or 24VDC                                                                                                                             |
| Supply Voltage                    | 5, 12 or 24 VDC                                                                                                                                       |
| Contact Resistance                | 20mΩ                                                                                                                                                  |
| LED state for output image option | 1 LED: The LED is ON when output is closed.<br><br>2 LEDs: First colour is ON when the output is open. Second colour is ON when the output is closed. |
| Actuating force, typically        | Zero Newton's (Touch Sensitive)                                                                                                                       |
| Life cycle                        | >50 Million                                                                                                                                           |

### Panel Cutout Dimensions



Panel cutout: 25.20 (.992 DIA)

### Environmental Specification

|                       |                                      |
|-----------------------|--------------------------------------|
| Sealing               | IP68 (2m depth for >30mins)<br>IP69K |
| Operating temperature | -25°C to +55°C                       |
| RoHS                  | Compliant                            |

### Circuit Specification

See wiring diagrams on page 41

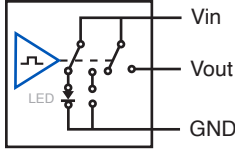
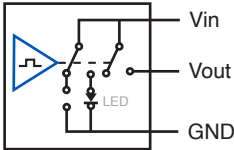
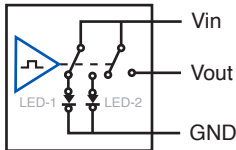
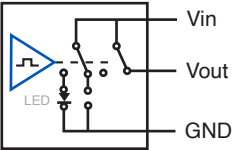
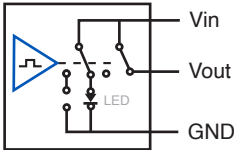
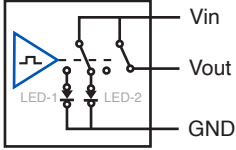
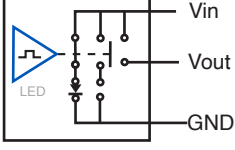
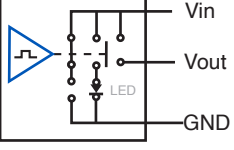
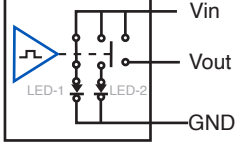
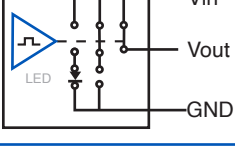
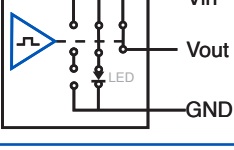
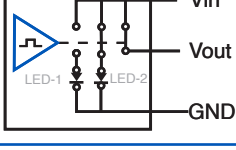
Part No System

| MC                   | XX          | X               | X                   | X                   | XX                        | XX                  |
|----------------------|-------------|-----------------|---------------------|---------------------|---------------------------|---------------------|
| Series               | Switch Size | Switch Function | Switch Status       | Colour / Material   | LED Colours               | Voltage             |
| MC-Capacitive Switch | 16 = 16mm   | M = Momentary   | O = Normally Open   | B = Black Anodised  | GN = GREEN (1 LED)        | 05 = 5VDC           |
|                      | 19 = 19mm   | L = Latching    | C = Normally Closed | R = Red Anodised    | RD = RED (1 LED)          | 24 = 24VDC          |
|                      | 22 = 22mm   |                 |                     | S = Stainless Steel | AM = AMBER (1 LED)        | * No Suffix = 12VDC |
|                      | 25 = 25mm   |                 |                     |                     | RG = RED + GREEN (2 LEDS) |                     |
|                      |             |                 |                     |                     | GR = GREEN + RED (2 LEDS) |                     |
|                      |             |                 |                     |                     | Blank = Non-Illuminated   |                     |

**Note:**  
2 LED's option: when the output circuit open, first LED color lights. Second LED lights when the output circuit closes

**Examples:**  
MC16MOSRD = 16mm, Stainless Steel, Momentary Normally Open, Red Illumination, 12VDC  
MC22LOBRG24 = 22mm, Black Anodised, Catching Normally Open, Red and Green Illumination, 24VDC

Circuit Specifications

| Wiring Diagrams                          |                                                                                     |                                                                                     |                                                                                      | Legend                                                                                                                            |
|------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
|                                          | 1 LED                                                                               |                                                                                     | 2 LEDS                                                                               |                                                                                                                                   |
|                                          | Output Indicator                                                                    | Output Indicator                                                                    | Output Indicator                                                                     |                                                                                                                                   |
| OFF-ON<br>(momentary)<br>Normally Open   |  |  |  | <p>Grey Vin<br/>Black black GND<br/>White Vout</p> <p>Wire colours may vary.<br/>Always refer to the label<br/>on the switch.</p> |
| ON-OFF<br>(momentary)<br>Normally Closed |  |  |  |                                                                                                                                   |
| OFF-ON<br>(latching)<br>Normally Open    |  |  |  |                                                                                                                                   |
| ON-OFF<br>(latching)<br>Normally Closed  |  |  |  |                                                                                                                                   |

Other switches are available upon request\*