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.
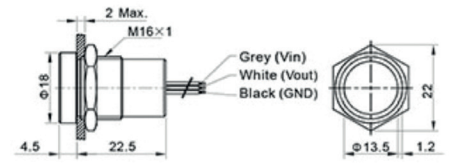
- Sealed to IP68 and IP69K
- Momentary or latching functions
- Large or thin ring illumination options
- Long life operation – 50 million of cycles
- 16, 19, 22 or 25mm diameter options

- 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

Capacitive Switches - 16mm

bulgin

16mm Illuminated

MC16

○ Illuminated
⬡ 300 mm lead

2 Max.
M16×1
Ø18
Grey (Vin)
White (Vout)
Black (GND)
4.5   22.5
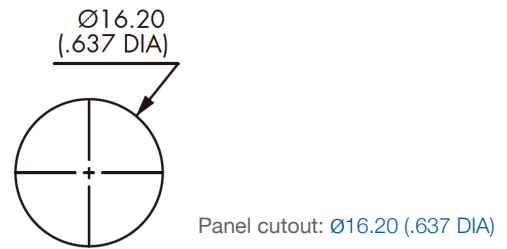Ø13.5   1.2
22

Specification — MC16

Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (length 300mm)
Maximum Current / Voltage Rating:	10mA 12 VDC
Supply Voltage	12 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

Ø16.20
(.637 DIA)

Panel cutout: Ø16.20 (.637 DIA)

Environmental Specification

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

Circuit Specification

Capacitive Switches - 19mm

bulgin

19mm Illuminated

MC19

◇ Illuminated
⬡ 300 mm lead
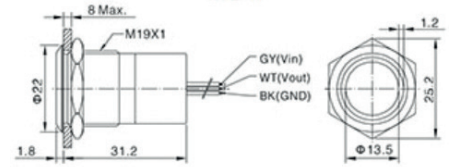
Specification — MC19

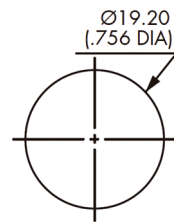|	
Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (length 300mm)
Maximum Current / Voltage Rating:	10mA 12 VDC
Supply Voltage	12 VDC
Contact Resistance	20mΩ
LED state for output image option	1 LED: The LED is ON when output is closed.
	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

Ø19.20 (.756 DIA)

Panel cutout: Ø16.20 (.637 DIA)

Environmental Specification

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

Circuit Specification

See wiring diagrams on Part No System page

Capacitive Switches - 22mm

bulgin

22mm Illuminated

MC22

⬡ Illuminated
⬡ 300 mm lead
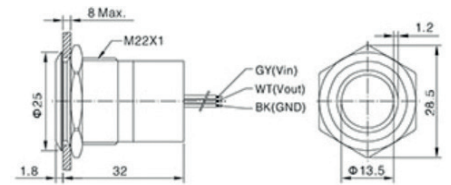
Specification   MC22

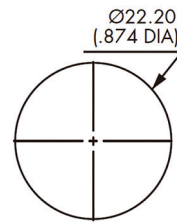|	
Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (length 300mm)
Maximum Current / Voltage Rating:	10mA 12 VDC
Supply Voltage	12 VDC
Contact Resistance	20mΩ
LED state for output image option	1 LED: The LED is ON when output is closed.
	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

Ø22.20
(.874 DIA)

Panel cutout: Ø16.20 (.637 DIA)

Environmental Specification

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

Circuit Specification

See wiring diagrams on Part No System page

Capacitive Switches - 25mm

bulgin

25mm Illuminated

MC25

⬡ Illuminated
⬡ 300 mm lead

8 Max.
M25X1
2.4
Ø28
GY(Vin)
WT(Vout)
BK(GND)
1.8
31.2
Ø13.5
32
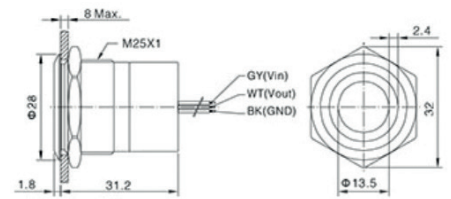
Specification — MC25

Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (length 300mm)
Maximum Current / Voltage Rating:	10mA 12 VDC
Supply Voltage	12 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

Ø25.20
(.992 DIA)

Panel cutout: Ø16.20 (.637 DIA)

Environmental Specification

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

Circuit Specification

Part No System

MC	/	XX	/	X	/	X	/	X	/	X

Series	Switch Size	Switch Function	Switch Status	Colour / Material	LED Colours
MC-Capacitive Switch	16 = 16mm	M = Momentary	O = Normally Open	B = Black Anodised	GN = GREEN
	19 = 19mm	L = Latching	C = Normally Closed	R = Red Anodised	RD = RED
	22 = 22mm			S = Stainless Steel	AM = AMBER
	25 = 25mm				RG = RED + GREEN
					GR = GREEN + RED
					Blank = Non-illuminated

Examples:

MC16MOSRD = 16mm, Stainless Steel, Momentary Normally Open, Red Illumination
MC22LOBRG = 22mm, Black Anodised, Catching Normally Open, Red and Green Ilumination

Circuit Specifications

	Wiring Diagrams			Legend
	1 LED		**2 LEDS**	
	Output Indicator	Output Indicator	Output Indicator	
OFF-ON (momentary)				Grey — Vin Black — black GND White — Vout
ON-OFF (momentary)				Wire colours may vary. Always refer to the label on the switch.
OFF-ON (latching)				
ON-OFF (latching)				

Other switches are available upon request*