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
an INFINIT● brand

16mm Illuminated

MC16

○ Illuminated
○ 300 mm lead

Grey (Vin)
White (Vout)
Black (GND)
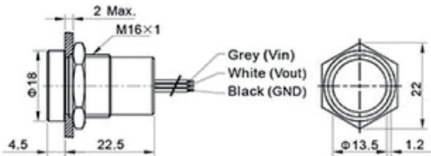
Specification | MC16

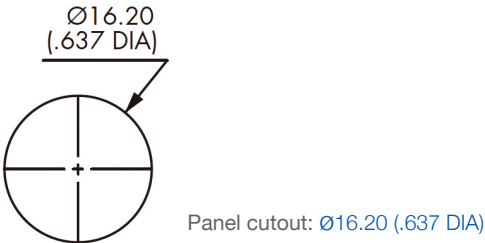|	
Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (length 300mm)
Maximum Current / Voltage Rating:	500mA at 5V, 12V or 24VDC
Supply Voltage	5, 12 or 24 VDC
Contact Resistance	20mΩ
LED state for output image option	1 LED: The LED is ON 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

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
an INFINIT❽ brand

19mm Illuminated

MC19

⬡ Illuminated
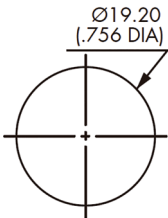⬡ 300 mm lead

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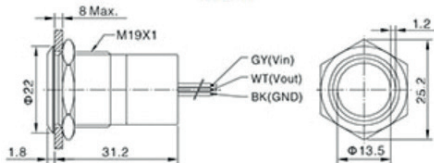
Specification

MC19

Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (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) IP69K
Operating temperature	-25°C to +55°C
RoHS	Compliant

Circuit Specification

Capacitive Switches - 22mm

bulgin
an INFINITꞶ brand

22mm Illuminated

○ Illuminated
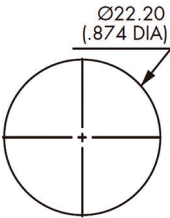○ 300 mm lead
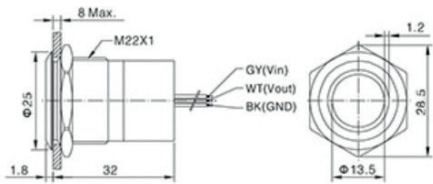
MC22

Specification	**MC22**
Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (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: Ø22.20 (.874 DIA)

Environmental Specification

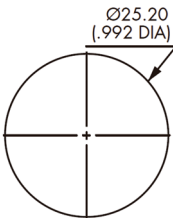|	
Sealing	IP68 (2m depth for >30mins) IP69K
Operating temperature	-25°C to +55°C
RoHS	Compliant

Circuit Specification

Capacitive Switches - 25mm

25mm Illuminated

MC25

⬡ Illuminated
⬡ 300 mm lead
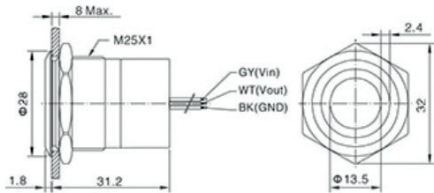
Specification	**MC25**
Type	Momentary / Latching
Materials	Case: Aluminium, Anodised and Stainless Steel
	Multi-wire leads setion 0.22mm² (length 300mm)
Maximum Current / Voltage Rating:	500mA at 5V, 12V or 24VDC
Supply Voltage	5, 12 or 24 VDC
Contact Resistance	20mΩ
LED state for output image option	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: Ø25.20 (.992 DIA)

Environmental Specification

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

Circuit Specification

Capacitive Switches - Part No System

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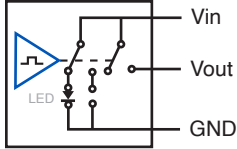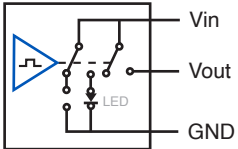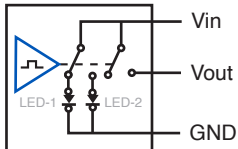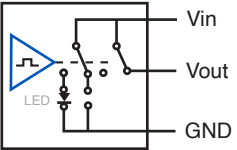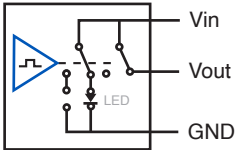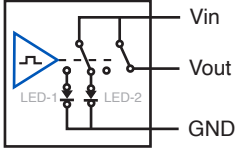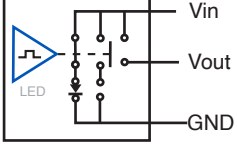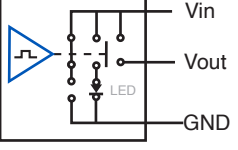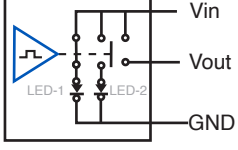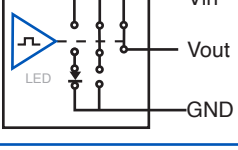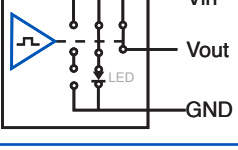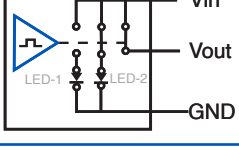
Part No System

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)	

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 llumination, 24VDC

Circuit Specifications

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

Other switches are available upon request*