

SNAP ACTION

CUSTOM ASSEMBLIES

PUSH BUTTON

SEALED

ROCKER

INDICATOR

SLIDE

VANDAL RESISTANT

ILLUMINATED

ACTIVE TOUCH

# Series 57 M



## Flex-Tech Miniature Panel Sealed Metal Pushbutton Switches

The 57M is a miniature, rugged vandal resistant switch. The housing is zinc alloy with velour chrome plating. It is available as maintained or momentary action and illuminated and non-illuminated versions. Electro-mechanical operation with Gold plated contacts and solder terminals. It is ideal for a multitude of applications.

### Key Features

- Zinc alloy/velour chrome plated
- Centre spot LED and non lighted versions
- Momentary or maintained action
- Panel sealed to IP67
- ROHS compliant
- Electro-mechanical
- Gold plated contacts and terminals

### Typical Applications

- Security equipment
- Industrial control
- Medical equipment
- Military equipment
- Food processing
- Transportation
- Computers

**TW** Switches

Standards / Agency / Ratings



Patent # 6,965,085

# Series 57 M

## Flex-Tech

## Miniature

## Panel Sealed

## Metal

## Pushbutton

### Mechanical/Electrical Characteristics:

#### ■ Circuit

SPST-NO-DB

#### ■ Button travel (nominal)

2.3mm

#### ■ Life (mechanical):

500,000 cycles max (momentary)

100,000 cycles max (maintained)

#### ■ Operating force (nominal)

3N/306g

#### ■ Contact bounce (nominal)

1 ms

#### ■ Panel thickness

0.5 - 3mm

#### ■ Temperature (operating)

-40°C to +85°C

#### ■ Torque (max) (Fixing Nut)

1-2 Newtons Metre

### Electro-mechanical

#### ■ Current ratings

10mA, 12 VDC Res.\*

#### ■ Dielectric strength

1,000 VAC

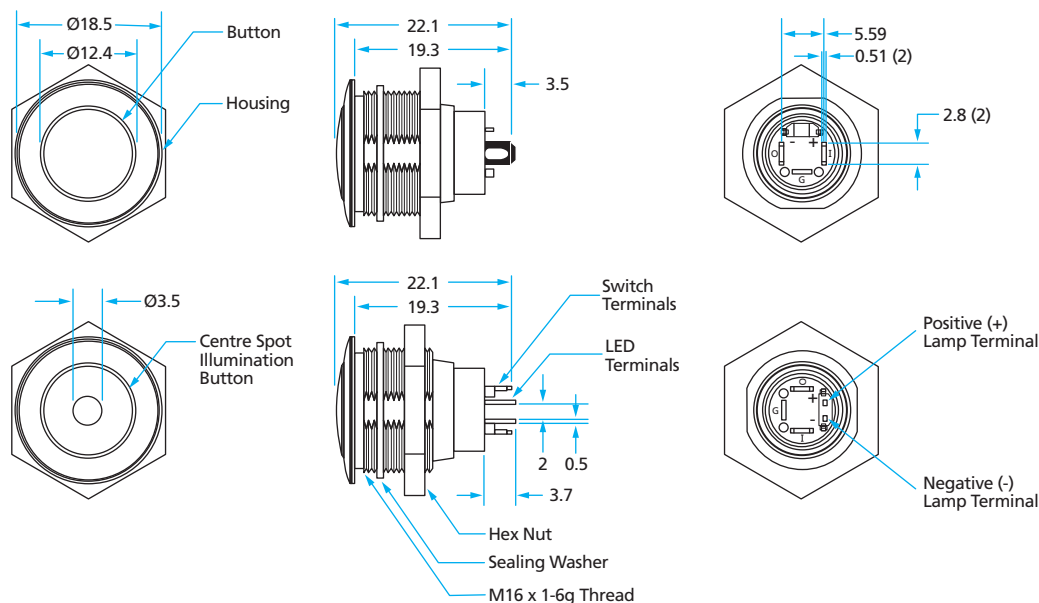
#### ■ Insulation resistance

1G OHM

#### ■ Contact resistance

50m OHMS max (initial)

\*Current limiting resistor is required to limit LED forward current to 20 mA (not included).



### Panel mounting and construction information

The series 57M mounts easily into panels of minimum 0.5 mm and maximum 3 mm thickness. Front panel sealing to IP67 is achieved by a sealing washer fitted to the body of the switch before it is inserted into the panel hole cut-out.

It is held onto the panel by means of a brass hex nut tightened down to a torque of 1-2 Newton Metre to achieve the correct sealing pressure.

### Ordering Information

Switch Function	Housing Material	Illumination	LED Colour
1. Mechanical, Momentary, Solder terminal	1. Zinc alloy, velour chrome plated	0. Non-illuminated	N. None
2. Mechanical, Maintained, Solder terminal	2. Zinc alloy, black chrome plated	1. Centre spot illumination	G. Green LED
9. Special, Following digits are in serial order			R. Green LED
			A. Amber LED
			B. Blue LED
			W. White LED

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## ITW Switches

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