ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

SERIES 57 - MINIATURE VANDAL RESISTANT PUSHBUTTON

The Series 57 is a range of miniature, momentary action, rugged panel sealed push-button switches with a round button and bezel.

The Series is available with or without LED status illumination. A locknut is supplied with each switch. The body and button are manufactured from a non-spark zinc alloy and are velour chrome plated. It is panel sealed to IP67 and is designed to be impact resistant. The small size, robustness and panel sealing make this switch ideal in harsh environments.

The illuminated version is available with a choice of 2 high brightness LED colours.





APPLICATIONS:

- Vandal resistant requirements
- Military environments
- Robust industrial requirements
- Flush-with-panel requirements
- Process control
- Railway carriage equipment
- External security door controls
- Elevators
- Fishing vessels
- Crane gantry equipment
- Earth moving equipment
- Upper deck yachting equipment
- Medical instrumentation

KEY FEATURES:

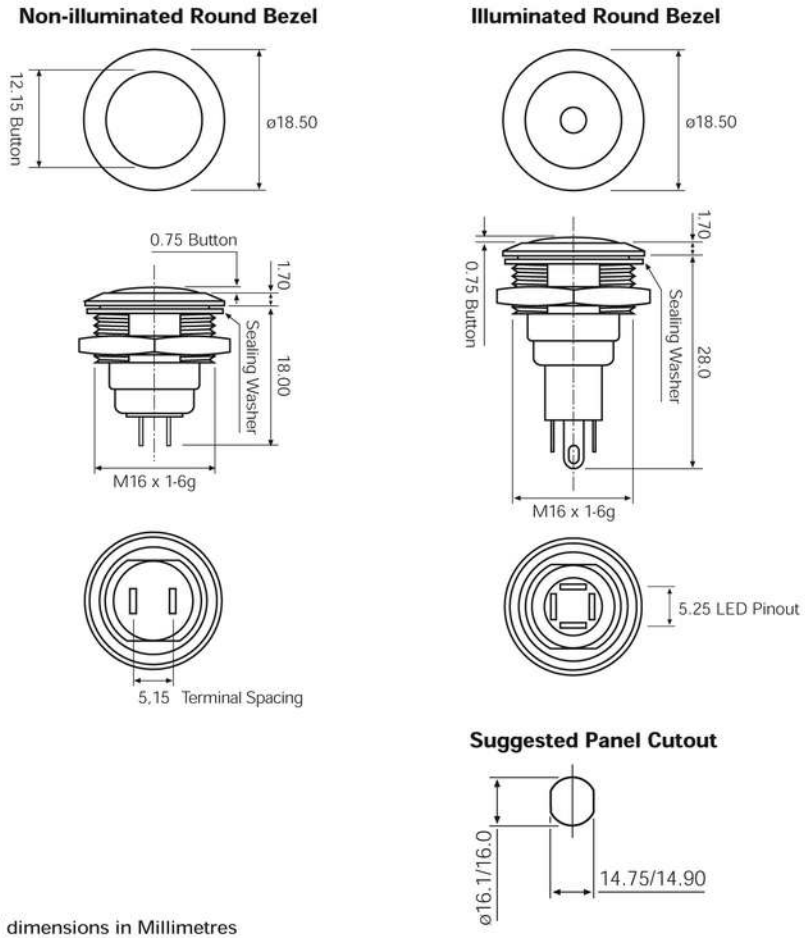
- Vandal Resistant
- Wide temperature range
- Panel sealed to IP67
- High environmental specifications
- Gold contacts
- Status illumination
- Solder terminals
- Mounts virtually flush to panel

PANEL MOUNTING & CONSTRUCTION:

The Series 57 mounts easily into panels of maximum 3mm thickness. Front panel sealing to IP67 is achieved by the use of a sealing washer which is fitted behind the bezel of 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 locknut, tightened down by a 20mm spanner, to a torque of maximum 1,5Nm to achieve the correct sealing pressure.

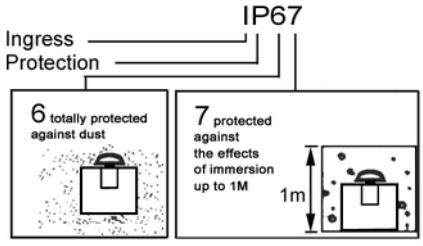
A 'D' flat is provided to prevent rotation.

PRODUCT DRAWINGS



All dimensions in Millimetres

INGRESS PROTECTION IMPACT KEY



CIRCUIT FORM



ORDERING INFORMATION:

Series	Button Style	Termination	Button Colour	LED Colour *
57 -	**1** - Standard round bezel	**1** - Solder terminals	**1** - Non-illuminated **2** - Illuminated	**R** - Red **G** - Green

57 - [ ] [ ] [ ] [ ]

* This digit is only required for illuminated switches

Designs and specifications are subject to change without notice due to product improvement.

MECHANICAL / ELECTRICAL / ENVIRONMENTAL CHARACTERISTICS:

Travel (nom): 2.3 mm

Life (nom): 1,000,000 cycles

Operating force (nom): 3N

Contact bounce (nom): 1ms

Panel thickness (max): 3 mm

SWITCH

Dielectric strength: 1000V a.c.

Insulation resistance: 1GΩ

Contact resistance (initial): 50mΩ

Current rating (typical):
400mA at 32V a.c. resistive
100mA at 50V d.c. resistive
125mA at 125V a.c. resistive

Life (min): 500,000 cycles

Switching power (max):
16VA a.c.

LED

Typical fwd voltage (Vf at I operating): 2.2V

Max fwd voltage (Vf at I operating): 3.0V

Forward current (I operating): 20mA

Ingress protection:
IP67 (panel sealed)

Shock: 100g

Vibration: DEF STD 07-55

Non-Illuminated
Operating temperature range:
-40°C to +125°C

Illuminated
Operating temperature range:
-35°C to +85°C

Body and Button material:
Velour chrome plated zinc alloy

Contacts: Gold plated

Terminals: Gold plated

Salt mist: BS2011 Part 2:1

Soldering information: 320°C max for 3s

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