

Series 57

Miniature Vandal Resistant Pushbutton Switch

Description

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

The Series 57 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.

Status Illuminated Version

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



Specifications:

Mechanical

Travel (nom): .09 (2.3)

Life (nom): 1,000,000 cycles

Operating force (nom): 306g (3N)

Contact bounce (nom): 1ms

Panel thickness (max): .118 (3.0)

Electrical: Switch & LED

SWITCH

Dielectric strength: 1,000 VAC

Insulation resistance: 1 Gohm

Contact resistance initial: 50 milliohms

Current rating (typical)

400mA at 32 VAC resistive

100mA at 50 VDC resistive

125mA at 125 VAC resistive

Life (min): 500,000 cycles

Switching power (max): 16VA AC

LED

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

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

Forward current (I operating): 20mA

Meantime between failures: 100,000 hours

Luminous intensity (Iv at Iopr):

Red LED - 100mcd

Luminous intensity (Iv at Iopr):

Green LED - 160mcd

Environmental & Physical

Ingress protection: IP67 (panel sealed)

Shock: 100g

Non-Illuminated

Operating Temperature Range

-40°F to 257°F (-40°C to +125°C)

Illuminated

Operating Temperature Range

-31°F to 185°F (-35°C to +85°C)

Body and button material:

Velour chrome plated zinc alloy

Contacts: Gold plated palladium nickel

Terminals: Gold plated brass

Soldering information:

608°F (320°C) max for 3s

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

**For Immediate Information
and samples, call:**
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ISO 9001

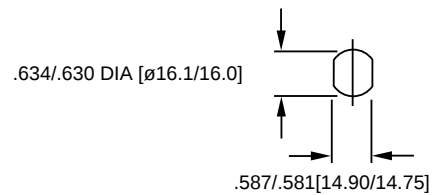
P R O D U C T D A T A S H E E T

Installation

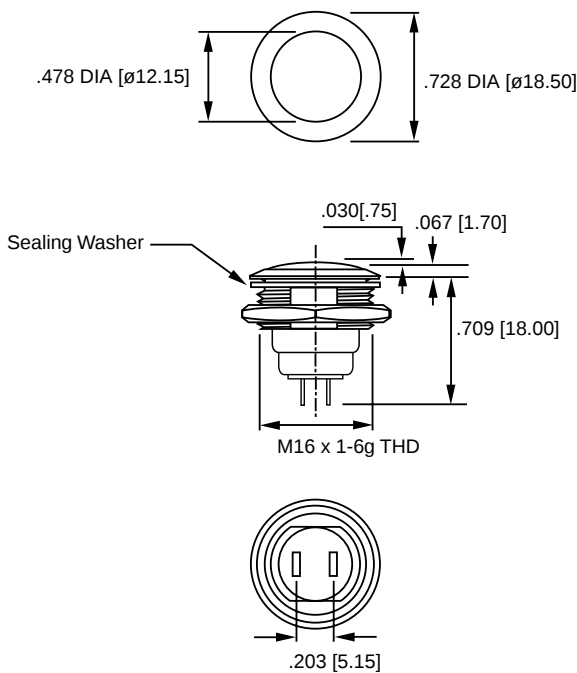
Panel mounting & construction information

The Series 57 mounts easily into panels of maximum .118" (3.0mm) 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 .79" (20mm) spanner, to a torque of maximum 1.106 pound/foot (1.5Nm) to achieve the correct sealing pressure.

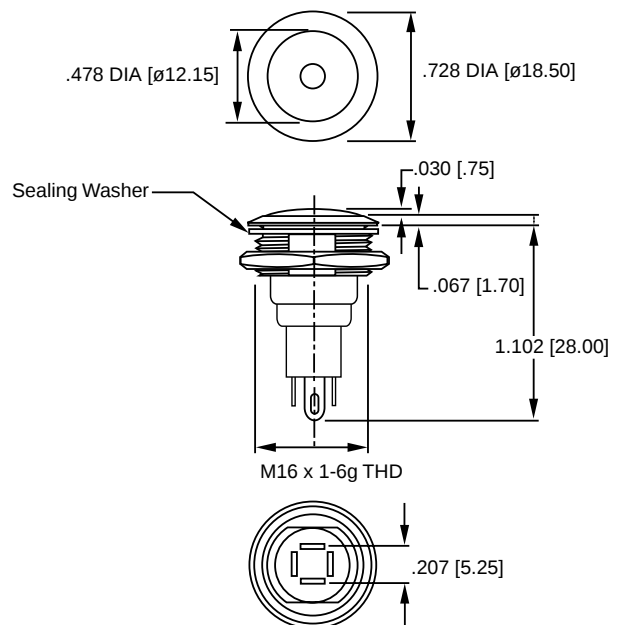
A 'D' flat is provided to prevent rotation.



Suggested Panel Cutout



Non-illuminated



Illuminated



inches(millimeters)

Ordering Information

Part Number	Lighted	LED Color
57-111	No	—
57-112R	Yes	Red
57-112G	Yes	Green

TW Switches

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