

Description

Series 59

The series 59 is a miniature, rugged. panel sealed push button switch.

This series comes in standard square and round bezel versions. Other standard features include a choice of six button colours, solder terminals and momentary action switching. PCB terminals, a high round bezel, surface and sublimation printing and an overboot for protection against icing (on the standard round bezel only) are available as non-standard options.

A locknut is supplied with each switch. The body of the series 59 is made of a high creep strength non-spark zinc alloy, making this suitable for use in the mining industry and potentially explosive atmospheres. It is panel sealed to IP67 and is designed to be impact resistant. The small size, robustness and being panel sealed make this series ideal for harsh environmental applications.

Features

- Non-spark material To NCB 481/1965
- Wide temperature range Up to 125°C
- Panel sealed To IP67
- High environmental specification
- Gold contacts

Non-standard features:

- Overboot for protection against icing
- PCB terminals
- High round bezel
- Surface and sublimation printing

Specification

Mechanical

Travel (nom) 2,3mm

1,000,000 cycles Life (max)

Operating force (nom) 3N Contact bounce (nom) 1ms Panel thickness (max) 3mm

Electrical

1000 VAC Dielectric strength Insulation resistance $1G\Omega$ $50 m\Omega$ Contact resistance (initial)

400mA at 32 VAC resistive Current rating (typical) 100mA at 50 VDC resistive 125mA at 125 VAC resistive

500,000 cycles Life (max) **16 VA AC**

Switching power (max)

Environmental & Physical

IP67 Ingress protection Shock 100G

DEF STD 07-55 Vibration Operating temperature range -55°C to + 125°C

Body material Zinc Alloy **Button material PBT**

Contacts Gold plated palladium nickel

Terminals Gold plated brass Salt mist BS2011 Part 2:1 Soldering information 320°C max for 3s













MICRO

PADDLE

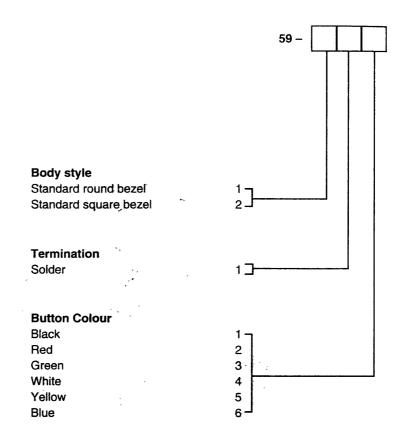
PLISH

BC

ROTARY

SLIDE

Ordering information

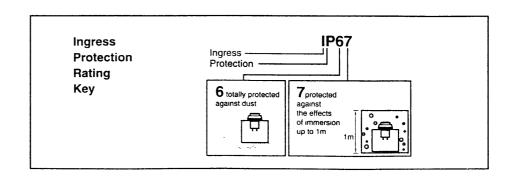


Panel mounting and construction information

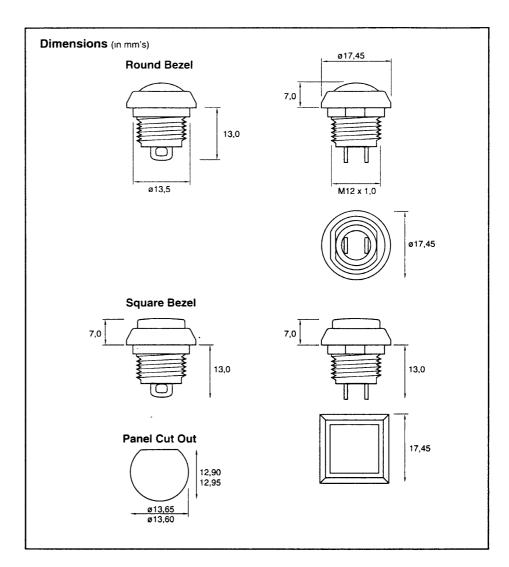
The series 59 mounts easily into panels of minimum 1,5 mm and maximum 3 mm thickness. Front panel sealing to IP67 is achieved by the use of a sealing 'O' ring which is fitted into a cast groove on the body of the switch before it is inserted into the panel hole cut out. It is

held onto the panel by means of a brass lock nut, tightened down by a 14 mm spanner, to a torque of between 1,5 Nm to 3,0 Nm to achieve the correct sealing pressure.

A 'D' flat is provided to prevent rotation.



Product dimensions



Circuit form



Typical applications

- Communications
- Instrumentation
- Data entry

- Military environments
- Environmentally demanding keypads
- Mass transport controls

For information on our complete range of switch products, please contact the Sales Office.

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Due to our policy of continuous product development, ITW Switches retain the right to change the specification at any time without prior notice