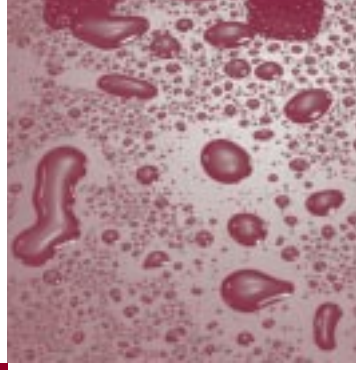


SERIES 59 – MINIATURE SEALED PUSHBUTTON

FEATURES

- Non-spark material
- Wide temperature range – Up to 125°C
- Panel sealed – To IP67
- High environmental specifications
- Gold contacts
- Status illumination

NON-STANDARD OPTIONS

- Overboot for protection against icing
- PCB terminals
- High round bezel
- Surface or sublimation legend printing on the butto (non-illuminated version)

ITW Switches

The non-illuminated range includes a choice of 7 button colours with solder terminal connection. PCB terminals, a high round bezel, surface and sublimation printing are available as non-standard.

Status Illuminated Version

An illuminated version is available in the round bezel versions with a choice of 3 button colours and 2 high brightness LED colours. Non standard options include additional button and LED colours (subject to minimum order quantities).

Mechanical

Travel (nom)	2,3mm
Life (max)	1,000,000 cycles
Operating force (nom)	3N
Contact bounce (nom)	1ms
Panel thickness (max)	1,5 - 3mm
Panel cut out	ø13,6mm (with 'D' flat)

Electrical

Switch & LED

SWITCH	
Dielectric strength	1000V a.c.
Insulation resistance	1GΩ
Contact resistance	50mΩ
Current rating (typical)	400mA at 32V a.c. resistive 100mA at 50V a.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
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
Shock	100g
Vibration	DEF STD 07-55
Non-Illuminated	
Operating temperature range	-40°C to +125°C with zinc alloy body -40°C to +105°C with PBT body

Body Style

Standard round bezel	1
Standard square bezel	2
Illuminated round bezel	4
PBT round bezel	5

Termination

Solder terminals	1

Button Colour

Black	1
Red	2
Green	3
White	4
Yellow	5
Blue	6
Orange	7

(Illuminated version only available with Black, Red and Green as standard. Non-standard colours subject to MOQ's)

LED Colour

Red	R
Green	G

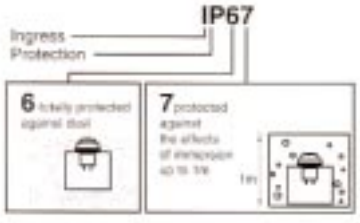
(This digit is only required for illuminated part numbers)

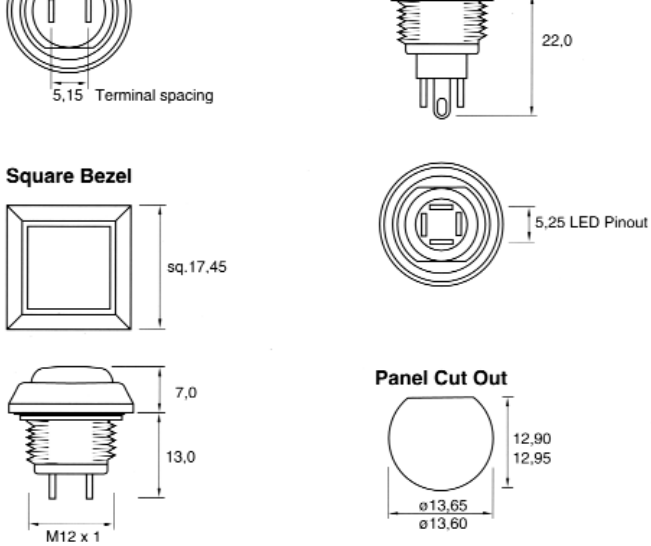
Panel Mounting & Construction Information

The Series 59 mounts easily into panels of minimum 1,5mm and maximum 3mm thickness. Front panel sealing to IP67 is achieved by the use of a sealing 'O' ring 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 14mm spanner, to a torque of between 1.0Nm to 2.0Nm to achieve the correct sealing pressure.

A 'D' flat is provided to prevent rotation.

Ingress Protection Impact Key





Note: Panel cut out is applicable for all styles

All dimensions in Millimetres

Circuit Form

Application References

- Communications
- Instrumentation
- Data entry
- Military environments
- Environmentally demanding keypads
- Mass transport controls

Further Information

For further information on our complete range of switch products, visit our website – www.itwswitchcon.com or contact our Sales Office.

ITW Switches

ITW Switches, Division of ITW Limited, Norway Road, Hilsea, Portsmouth PO3 5HT, UK
Tel: +44 (0)2392 694971 Fax: +44 (0)2392 666352 Website: www.itwswitchcon.com