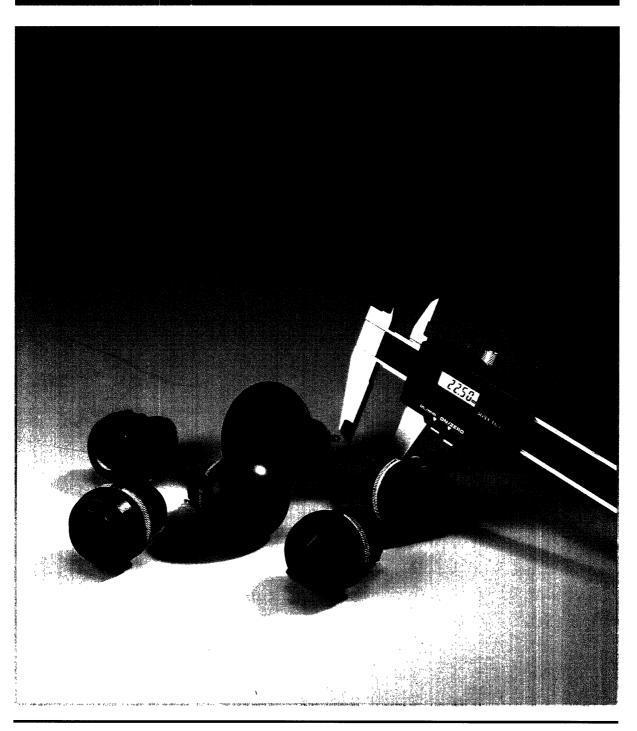
Series 76-94

PANEL SEALED RANGE



Switches



Series 76-94

Description

Features

Specification

The pushbutton and rotary variants utilise ITW Switches' proven series 16 snap action microswitch.

The 76-94 series has been designed to cover a wide range of harsh environmental applications.

The range is available in 3 styles, push button, rotary and panel lamp.

The push button comes in 4 button styles with 3 colour options and has solder/faston terminals as standard. The rotary is a single pole, 2 position, snap action switch with green or red spot indicator on the black actuator. To complete the range an indicator version is available with red, green or amber lens.

The entire range is panel sealed to IP67 and due to the construction and the

- Non-spark material To NCB 481/1965
- Explosive protection For volatile atmospheres
- Wide temperature range from -40°C to +125°C
- Panel sealed product Protection against immersion
- Approved product UL & CSA
- Impact rating 20J

materials used, all are capable of surviving the impact of a 5kg mass dropped from 40cm (20J). All the bezels and the actuators of the pushbuttons and rotaries are made from a non-sparking zinc alloy whilst the panel lamp lens is manufactured from ploycarbonate, which maintains the specification of the range.

Non-standard options for the range include custom colours, PCB terminals, gold contacts and 2 pole variants.

The features of the series makes it ideal for robust, potentially explosive environments, such as the mining industry.

Choice of actuators and styles – Pushbuttons, rotary and panel lamp

Non-standard Options:

- PCB terminals
- Gold contacts
- 2 poles available
- Colour variants
- In-filled engraving (Pushbutton only)

Mechanical

Travel Life (nom)

Operating force Contact bounce Panel thickness (max) 2,5mm (PB)

2 x 10⁶ cycles (PB), 50,000 cycles (R) 1 x 10⁵ cycles (Latched Pushbutton)

7N (PB) 5ms (PB, R) 6mm (PB, R, L)

Electrical

Dielectric strength Insulation resistance Contact resistance (initial) Current rating (max)

Illumination type

1000V RMS (PB, R) $1G\Omega$ (PB, R) 25mΩ (PB, R)

10A resistive 250VAC (PB, R) 100,000 cycles 20°C (PB, R) 50,000 cycles 70°C (PB, R) T13/4 Wedge base bulb (L)

Environmental & Physical

Ingress protection Impact rating Shock

Operating temperature range

Body material **Actuator material** Lens material Contact material Terminal material

IP67 (PB, R, L) 20J (PB, R, L) 50a (PB, R, L) -40°C to +125°C (PB, R, L) Zinc alloy (PB, R, L)

Zinc alloy (PB, R) Polycarbonate (L) Fine silver (PB, R)

5µm bright acid tin plate nickel flash undercoat (PB, R, L)

Key:

PB - Pushbutton - Rotary

- Panel Lamp Indicator















PANEL LAMP

MICRO

PADDI F

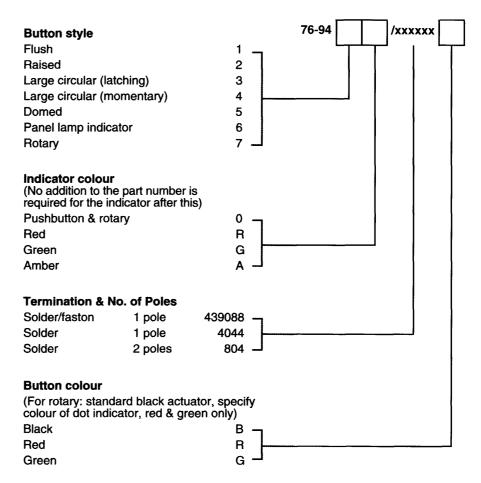
PUSH

BOCKE

KEB BOTAB

SLIDI

Ordering information



Panel mounting & construction information

The 76-94 mounts easily into panels not exceeding 6mm thickness. Front panel sealing to IP67 is achieved by use of the sealing washer which is fitted to the switch before it is inserted into the panel hole cut out. It is held into the panel by means of a zinc lock nut, tightened down

by the tool part number 76-T1 to a torque of between 1,5Nm to 2,85Nm to achieve the correct sealing pressure.

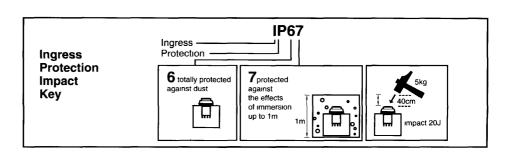
It is mounted into a standard 22,5mm diameter hole and a double 'D' flat is provided to prevent rotation if required.

Lamp construction & multi-pole information

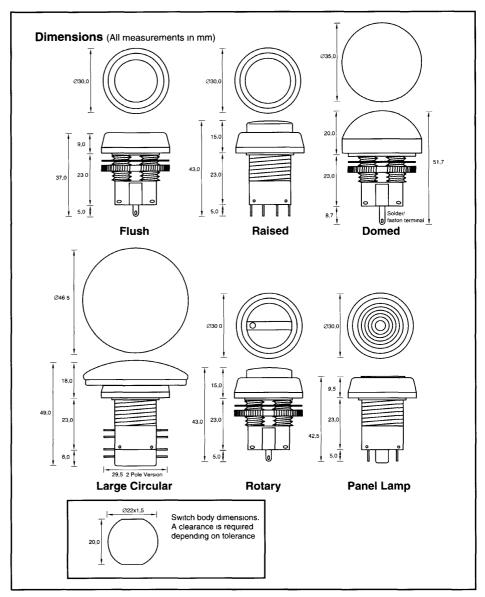
The 76-94 panel lamp variant is supplied with a quick release bulb holder that will accept a T1³/₄ wedge base filament lamp. Because of the wide range of illumination available (different voltage lamps, multi chip LED's etc.), we do not supply a bulb as standard although we are prepared to do so if required.

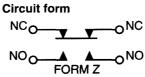
The pushbutton and rotary versions have a non-standard option of 2 poles. The 2 pole switch is provided separate to the switch body and must be fitted, via a spring clip, after the switch body has been mounted in the panel.

For more information, please contact the Sales Office.



Product drawings





Application references

- Military environments
- Robust industrial
- Vandal resistant requirements
- Mining industry

- Petrochemical
- Process control
- Material handling

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