ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

SERIES 76-97 - PANEL SEALED PUSHBUTTON

The Series 76-97 range of pushbutton switches are very robust. The switch body and button are made from hard-wearing plastic and produced in front mounting style.

The Series 76-97 can be used in momentary or maintained mode. In addition the buttons carry a brightly coloured switch indicator which gives an 'at a glance' recognition of the mode currently in use.

Buttons and status rings can be supplied in a variety of colours or to customers own specifications.

The 76-97 utilises ITW Switches' proven Series 16 snap action microswitch.



APPLICATIONS:

- Military environments
- Robust industrial
- Mining industry
- Petrochemical
- Process control
- Material handling

KEY FEATURES:

- Wide temperature range
- Panel sealed product to IP67
- Maintained mode

NON-STANDARD OPTIONS:

- PCB terminals
- Gold contacts
- 2 poles available
- Colour variants
- Surface or sublimation legend printing

PANEL MOUNTING & CONSTRUCTION: WITH MULTI-POLE INFORMATION:

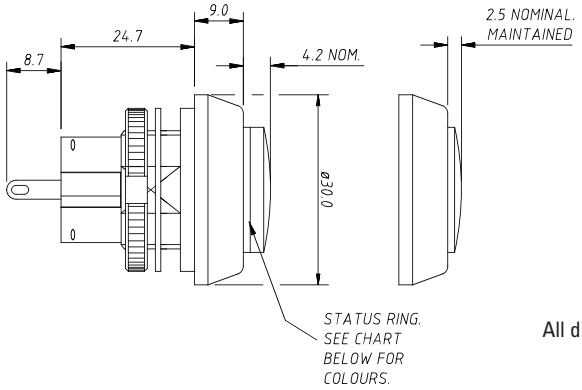
The 76-97 mounts easily into panels not exceeding 6mm thickness. Front panel sealing to IP67 is achieved by use of the sealing washer which is fitted to the switch before it is inserted into the panel hole cut out. It is held into the panel by means of a lock nut, tightened down to a torque of between 1.5Nm to 2.85Nm to achieve the correct sealing pressure.

It is mounted into a standard 22.5mm diameter and a double 'D' flat is provided to prevent rotation if required.

Series 76-97 has 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.

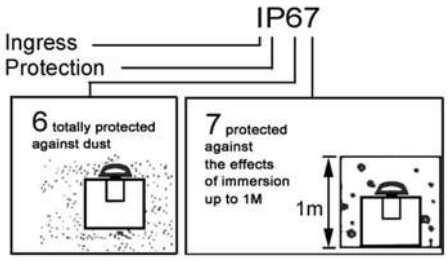
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PRODUCT DRAWINGS

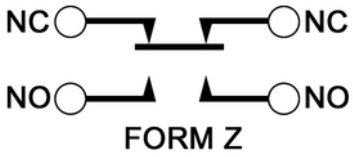


All dimensions in Millimetres

INGRESS PROTECTION



CIRCUIT FORM



ORDERING INFORMATION:

Series	Button Style	Action	Termination & No. of Poles	Button Colour / Identity Ring Colour
76-97	1 - Raised	1 - Momentary 2 - Maintained	439088 - Solder / faston 1 Pole 4044 - Solder 1 Pole 804 - Solder 2 Poles	B - Black/red R - Red/yellow G - Green/yellow W - White/yellow Y - Yellow/red N - Blue/red GY - Light grey/red

76-97 [ ] [ ] [ ] [ ]

MECHANICAL / ELECTRICAL / ENVIRONMENTAL CHARACTERISTICS:

Travel:
3.5 mm

Life (nom):
2,000,000 Momentary
100,000 Maintained

Operating force:
3.5N (nominal)

Contact bounce:
5ms

Panel thickness (max):
6 mm

Dielectric strength:
1000V RMS

Insulation resistance:
1GΩ

Contact resistance (initial):
25mΩ

Current rating (max):
1 Pole: 10A resistive 250V a.c.
10mA resistive 5V d.c.

2 Pole: 8A resistive 250V a.c.
10mA resistive 5V d.c.

Life:
100,000 cycles @ 20°C

Ingress protection:
IP67 (Panel Sealed)

Shock:
50g

Operating temperature range:
-40°C to + 105°C

Body material:
PBT

Actuator material:
PBT

Contact material:
Fine silver

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

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