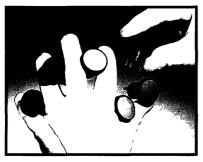
Series 76-91

PANEL SEALED RANGE



IT IN Switches



Description

Series 76-91

PANEL SEALED RANGE

A robust pushbutton switch designed for demanding environmental applications. The snap-action switch mechanism provides high quality switching behind an ice-proof, flexible actuator. The body of the series 76-91 is flame retardant to UL94-VO approval and the switch is panel sealed to IP67.

The range offers the choice of six button colours with solder/quick connect terminals as standard. Single and double pole versions are available in momentary or alternate actions. A locknut and sealing washer are supplied with the switch.

Features

- Waterproof panel seal IP67 approved to BS5420 (IEC144)
- Flame retardant body UL94-VO approved material
- High dielectric strength
- Wide temperature range up to 80°C
- Robust construction for harsh environments
- Positive tactile response for operator feedback
- Operates at up to 10 Amps

Non-Standard Options

- 2 pole versions
- Alternate action versions
- PCB terminals
- Gold contacts
- Fully sealed with flying leads

Specification

Mechanical

Travel Life (min)

Operating force (nom) (max)

Contact bounce

Panel thickness (max)

Locknut tightening torque (max)

3,3mm reference

106 cycles

12N

15,5N

<5ms

4mm

2,85Nm

Electrical

Current (max) silver contacts Current (min) silver contacts

Life (min)

Dielectric strength (min)
Insulation resistance (min)
Contact resistance (max. initial)

10A resistive 250 VAC 10mA resistive 5 VDC

105 cycles

1 KVAC, 1 minute 1G Ω @ 500 VDC

 $25 m\Omega$

Environmental & Physical

Ingress protection Impact rating

Shock (min) Temperature Body Material

Button material Sealing washer material

Contacts Terminals IP67 2 Joules 10g

-40°C to +80°C Glass filled polyester Polyether block amide

Nitrile rubber Fine silver Tin plated brass













MICRO

PADDLE

PUSH

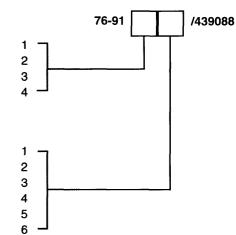
ROCKE

CKER ROTAF

SLIDE

Ordering information

Contacts/Action Momentary 1 Pole Momentary 2 Pole Alternate 1 Pole Alternate 2 Pole



Button Colour

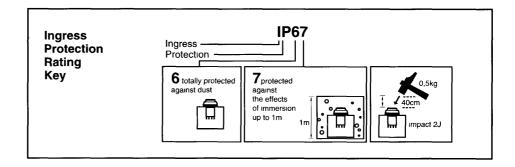
White Red Green Blue Yellow Black

Panel mounting and construction information

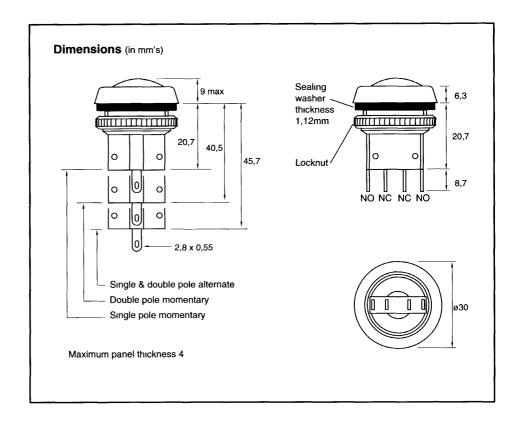
The series 76-91 mounts easily into panels not exceeding 4mm thickness. Front panel sealing to IP67 is achieved by use of the sealing washer which is fitted to the switch before it is inserted into the panel hole cut-out. Momentary single pole versions mount in a DIN standard 22,5mm diameter hole, or by reversing the special locknut, will mount

in a 25mm diameter hole. Alternate and double pole versions mount into 25mm hole*. The locknut is then screwed on from behind the panel to secure the switch in place. The tightening torque is from 1,5Nm to 2,85Nm.

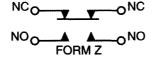
*(For 22,5mm fixing on these versions, please consult the factory.)



Product dimensions



Circuit form



Application references

- Mining
- Field Equipment
- Dairy
- Hydraulic vehicles

- Exterior security call points
- Marine instrumentation
- Car wash machinery

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

Switches

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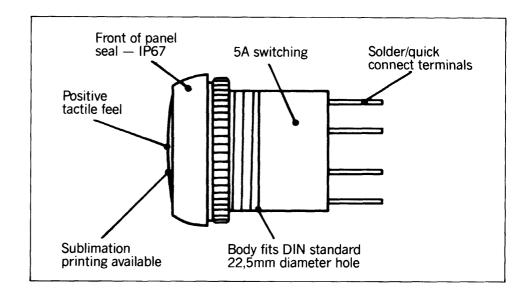
Due to our policy of continuous product development, ITW Switches retain the right to change the specification at any time without prior notice

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TGW/2M/0995





 $5(2,75)/250 \sim +++ \mu$ $5(2,75)/28 = +++ \mu$

Description

Features

Specification

This popular pushbutton gives high quality switching with a front of panel seal to IP67 at low cost. The switch unit uses the series 16 microswitch with the well proven butterfly action, giving a compact switch with snap-action.

Solder/quick connect or pcb terminals are available as well as a choice of button colours. Momentary single pole versions mount in a DIN standard 22,5mm diameter hole, or by reversing the special locknut will mount into a 25mm diameter hole. Alternate and double pole versions mount in a 25mm diameter hole. A locknut and sealing washer are supplied with the switch.

- Positive tactile feel for operator feedback
- Sublimation printing available low cost and wear proof
- 6 button colours design flexibility
- Waterproof panel seal IP67 to IEC144/BS5420
- Ice proof button for temperatures down to —40°C
- Momentary or 1 level alternate same switch for both actions
- Up to 2 pole form Z circuitry for all switching requirements
- Robust for harsh environments

Non-standard options

■ Other circuit forms — X, Y & C

■ Flame retardant to UL 94-VO version

■ 10 amp, gold and logic load version

Mechanical

Travel (nominal): 1,6mm. Life (min): 10⁷ cycles. Operating Force (max): 12,7N.

Environmental

Ingress Protection: Approved to IP67.

Shock (min): 10g.

Temperature (ambient): -20°C to +70°C.

Electrical

Current: 5A/250V ← max. (10A version available).

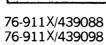
10mA/5V == min. (logic load version available).

Life (min): 105 cycles.

Dielectric Strength (min): 1KV ∩, 1 minute. Insulation Resistance (min): 1GΩ @ 500V == Contact Resistance (max. initial): $25m\Omega$.

Ordering Information

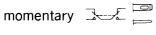






button colours X = 1-White 2-Red

3-Green 4-Blue 5-Yellow 6-Black



alternate



76-913X/439088 76-913X/439098



76-912X/439088 76-912X/439098



double pole momentary double pole alternate

76-914X/439088 76-914X/439098



momentary \rightarrow

76-917X/439088 Flame retardent to UL94-VO

