ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

SERIES 76-91 FLEXIBUTTON – 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 Flexibutton 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 or quick connect terminals as standard. A locknut and sealing washer are supplied with the switch.



APPLICATIONS:

- Mining
- Field Equipment
- Dairy
- Hydraulic vehicles
- Exterior security call points
- Marine instrumentation
- Car wash machinery

KEY FEATURES:

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

NON-STANDARD OPTIONS:

- PCB terminals
- Gold contacts
- Fully sealed with flying leads

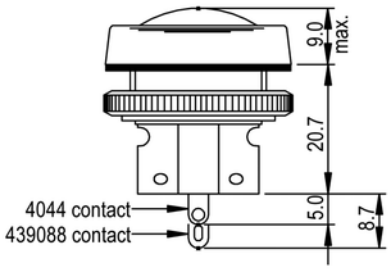
PANEL MOUNTING & CONSTRUCTION:

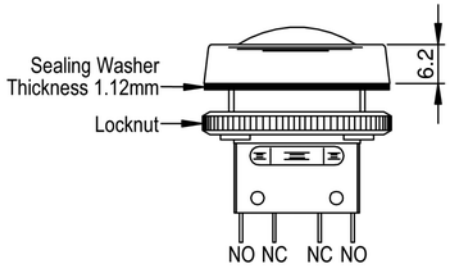
The Flexibutton mounts easily into panels not exceeding 4mm thickness. Front panel sealing to IP67 is achieved by use of sealing washer which is fitted to the switch before it is inserted into the panel hole cut-out. Mounting is via a DIN standard 22.5mm diameter hole, or by reversing the special locknut, will mount in a 25mm diameter 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.

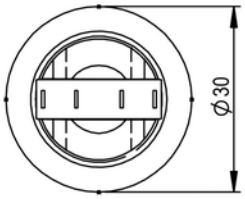
*(For 22.5mm fixing on these versions, please consult the factory.)

PRODUCT DIMENSIONS



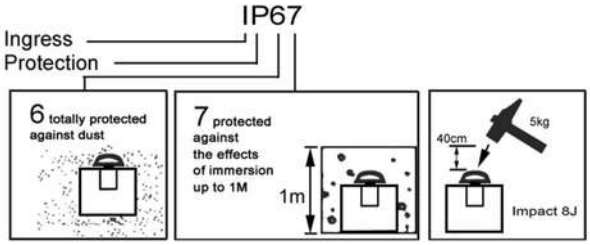


Maximum panel thickness 4
Mounting hole size Ø22.5

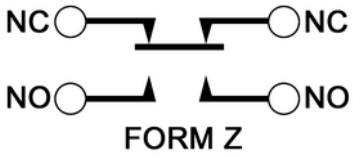


All dimensions in Millimetres

INGRESS PROTECTION IMPACT KEY



CIRCUIT FORM



ORDERING INFORMATION:

Series	Button Style	Indicator Colour	
76-91	**1** - Momentary 1 pole	**1** - White **2** - Red **3** - Green **4** - Blue **5** - Yellow **6** - Black	**/4044** **/439088**

76-91 [ ] [ ] [ ]

MECHANICAL / ELECTRICAL / ENVIRONMENTAL CHARACTERISTICS:

Travel:
3,3mm reference

Life (min):
1,000,000 cycles

Operating force
(nom): 12N
(max) 15.5N

Contact bounce:
<5ms

Panel thickness (max):
4mm

Locknut tightening torque (max):
2.85Nm

Current (max) silver contacts:
10A resistive 250 V a.c.

Current (min) silver contacts:
10mA resistive 5V d.c.

Life (min):
100,000 cycles

Dielectric strength:
1KV a.c., 1 minute

Insulation resistance (min):
1GΩ @ 500V d.c.

Contact resistance (max. initial):
25mΩ

Ingress protection:
IP67 (Panel Sealed)

Impact rating:
2 Joules

Shock (min):
10g

Temperature:
-40°C to +80°C

Body material:
Glass filled polyester

Button material:
Polyether block amide

Sealing washer material:
Nitrile rubber

Contacts:
Fine silver

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

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