

TW **Switches**



Description

Features

Specification

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

Key: PB - Pushbutton - Rotary R - Panel Lamp Indicator

Series 76-94 FN

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

Mechanical

Travel Life (nom)

Operating force Contact bounce Panel thickness (max)

Electrical

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

1000V RMS (PB, R) 1GΩ (PB, R) 25mΩ (PB, R) 10A resistive 250VAC (PB. R) 100,000 cycles 20°C (PB, R) 50,000 cycles 70°C (PB, R)

Illumination type

Environmental & Physical

Ingress protection Impact rating Shock Operating temperature range Body material Actuator material Lens material Contact material Terminal material

T13/4 Wedge base bulb (L)

IP67 (PB, R, L) 20J (PB, R, L) 50g (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) 5um bright acid tin plate nickel flash undercoat (PB, R, L)

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

2,5mm (PB)

6mm (PB, R, L)

7N (PB) 5ms (PB, R)

In-filled engraving (Pushbutton only)

 2×10^{6} cycles (PB), 50,000 cycles (R) 1 x 10^{5} cycles (Latched Pushbutton)



7 protected against the effects of immersion up to 1m

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1m P

5kg

impact 20J

40cr

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6 totally protected against dust

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Or	dering information	Button style		76-94 /xxxxx
		Flush		
		Raised		2
		Large circular (late	china)	3
'		Large circular (mo	•.	4
		Domed	27	5
		Panel lamp indica	tor	6
•		Rotary		7 🔟 🛛
_				
•		Indicator colour (No addition to the required for the inc	part number is dicator after this)	
-		Pushbutton & rota		0
		Red	-	R
۱.		Green		G
		Amber		
	Termination & No. of Poles			
		Solder/faston	1 pole 4390	088 -
-		Solder	•)44
		Solder	•	304 J
ł . (Button colour (For rotary: standard black actuator, specify colour of dot indicator, red & green only) Black B Red R		
,		Green		G _
		aroon		G
	nel mounting construction	The 76-94 mounts easily into panels not by the tool part number 76-T1 to a torque of between 1,5Nm to 2,85Nm to achieve		
	ormation	sealing to IP67 is achieved by use of the		the correct sealing pressure.
		sealing washer which is fitted to the		It is mounted into a standard 22,5mm
		switch before it is inse hole cut out. It is held i		diameter hole and a double 'D' flat is
•		means of a zinc lock n		provided to prevent rotation if required.
			,	
		The 76-94 panel lamp	variant is supplied	The pushbutton and rotary versions have
	mp construction & Ilti-pole information	with a quick release bu		a non-standard option of 2 poles. The 2
 سم		accept a T13/4 wedge b	base filament lamp.	pole switch is provided separate to the
		Because of the wide ra		switch body and must be fitted, via a
¥		available (different voltage la chip LED's etc.), we do not s		spring clip, after the switch body has been mounted in the panel.
		as standard although v		For more information, please contact the
		do so if required.	· · · · · · · · · · · · · · · · · · ·	Sales Office.
٠				
_		IP67		
L.	Ingress ———————————————————————————————————			
		Ingress	11010011011	——————————————————————————————————————

Ingress Protection Impact Key

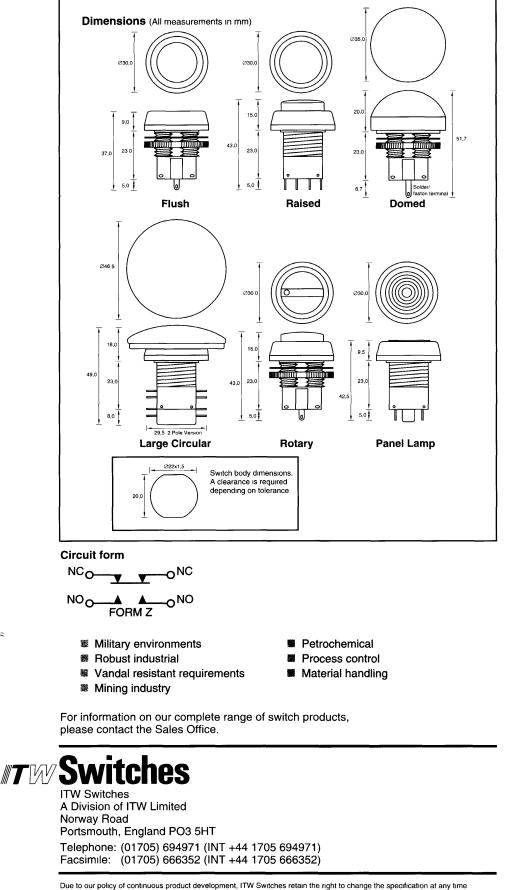
Downloaded from Elcodis.com electronic components distributor

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Product drawings



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

Application references

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