

SERIES 57 – MINIATURE VANDAL RESISTANT PUSHBUTTON

FEATURES

- Vandal Resistant
- Wide temperature range - up to 125°C
- Panel sealed to IP67
- High environmental specifications
- · Gold contacts
- Status illumination
- Solder terminals
- Mounts virtually flush to panel



Technical Information

Description			
	The Series 57 is a range of miniature, momentary action, rugged panel sealed push-button		
	switches with a round button and bezel. The Series is available with or without LED status illumination. A locknut is supplied with each		
	switch. The body and button are manufactured from a non-spark zinc alloy and are velour chrome		
	plated. It is panel sealed to IP67 and is designed to be impact resistant. The small size, robustness and panel sealing make this switch ideal in harsh environments.		
	Status Illuminated Version		
	The illuminated version is available with a choice of 2 high brightness LED colours.		
Mechanical			
	Travel (nom)	2.3mm	
	Life (nom)	1,000,000 cycles	
	Operating force (nom)	3N	
	Contact bounce (nom)	1ms	
	Panel thickness (max)	3mm	
Electrical			
Switch & LED			
Switch & LED	SWITCH		
	Dielectric strength	1000V a.c.	
	Insulation resistance	1GΩ	
	Contact resistance (initial)	50mΩ	
	Current rating (typical)	400mA at 32V a.c. resistive	
		100mA at 50V d.c. resistive	
		125mA at 125V a.c. resistive	
	Life (min)	500,000 cycles	
	Switching power (max)	16VA a.c.	
	LED		
	Typical fwd voltage (Vf at I operating)	2,2V	
	Max fwd voltage (Vf at I operating)	3,0V	
	Forward current (I operating)	20mA	
	Meantime between failures	100,000 hours	
	Luminous intensity (Iv at lopr)	Red LED – 100mcd	
	Luminous intensity (Iv at lopr)	Green LED – 160mcd	
Environmental & Physical			
	Ingress protection	IP67 (panel sealed)	
	Shock	100g	
	Vibration	DEF STD 07-55	
	Non-Illuminated		
	Operating temperature range	-40°C to + 125°C	

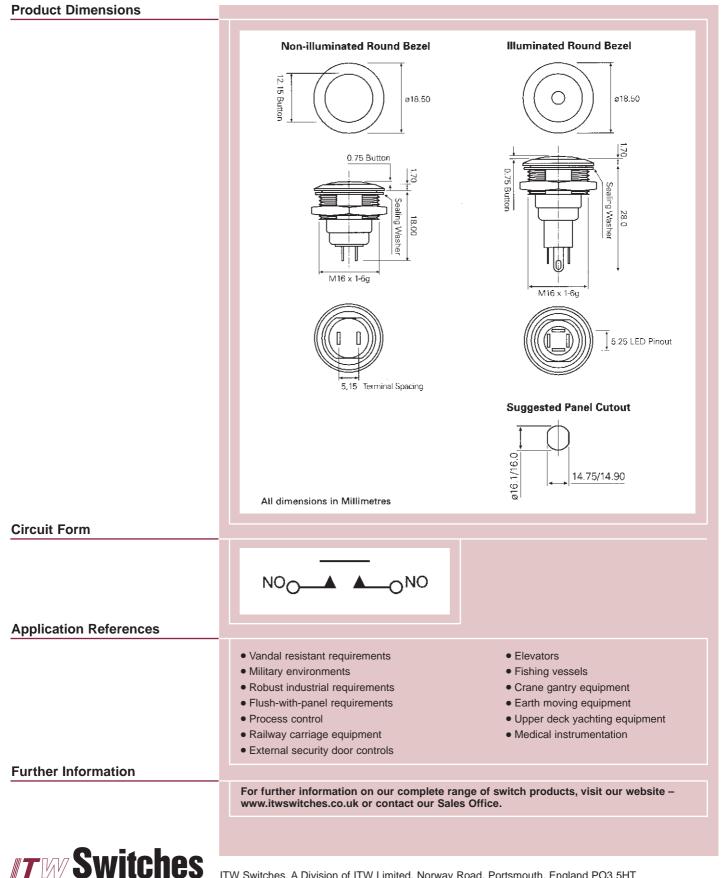
Technical Information

Ordering Information

Environmental & Physical		
(continued)	Illuminated Operating temperature range Body and Button material Contacts Terminal Salt mist Soldering information	-35°C to +85°C Velour chrome plated zinc alloy Gold plated palladium nickel Gold plated brass BS2011 Part 2:1 320°C max for 3s
		57 –
Body Style	Standard round bezel 1	
Termination	Solder Terminals 1	
Button Colour		
	Non-illuminated1Illuminated2	
LED Colour		
	Red R Green G	
	(This digit is only required for illuminated part numbers)	
Panel mounting		
& construction information	The Series 57 mounts easily into panels of maximum 3mm thickness. Front panel sealing to IP67 is achieved by the use of a sealing washer which is fitted behind the bezel of the body of the switch before it is inserted into the panel hole cut-out. It is held onto the panel by means of a brass locknut, tightened down by a 20mm spanner, to a torque of maximum 1,5Nm to achieve the correct sealing pressure. A 'D' flat is provided to prevent rotation.	
Ingress Protection Impact Key		
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