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Data Sheet no. 59500



SERIES 59 – MINIATURE SEALED PUSHBUTTON

FEATURES

- Non-spark material
- Wide temperature range – Up to 125°C
- Panel sealed To IP67
- High environmental specifications
- Gold contacts
- Status illumination

NON-STANDARD OPTIONS

- Overboot for protection
 against icing
- PCB terminals
- High round bezel
- Surface or sublimation legend printing on the button (non-illuminated version)

TW Switches



Technical Information

Series 59 The Series 59 is a range of miniature, momentary action, rugged panel sealed pushbutton switches The Series is available with square or round bezel versions, with or without LED status illumination. A locknut is supplied with each switch. A choice of body material is provided of either a non spark zinc alloy or a hard wearing moulded PBT therefore making this switch suitable for use in most applications. 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. Non-Illuminated Version The non-illuminated range includes a choice of 7 button colours with solder terminal connection. PCB terminals, a high round bezel, surface and sublimation printing are available as non-standard. Status Illuminated Version An illuminated version is available in the round bezel versions with a choice of 3 button colours and 2 high brightness LED colours. Non standard options include additional button and LED colours (subject to minimum order quantities). Mechanical Travel (nom) 2,3mm Life (max) 1,000,000 cycles Operating force (nom) 3N Contact bounce (nom) 1ms Panel thickness (max) 1,5 - 3mm ø13,6mm (with 'D' flat) Panel cut out Electrical Switch & LED SWITCH 1000V a.c. Dielectric strength Insulation resistance 1GΩ Contact resistance $50 \text{m}\Omega$ 400mA at 32V a.c. resistive Current rating (typical) 100mA at 50V a.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 Green LED – 160mcd Luminous intensity (Iv at lopr) **Environmental & Physical** IP67 Ingress protection Shock 100g Vibration DEF STD 07-55 Non-Illuminated Operating temperature range -40°C to +125°C with zinc alloy body -40°C to +105°C with PBT body



Technical Information

Ordering Information

(continued)	Illuminated	
	Operating temperature range	-35°C to +85°C
	Body material	Zinc alloy (standard) or PBT
	Button material	PBT
	Contacts	Gold plated nickel
	Terminals	Gold plated brass
	Salt mist	BS2011 Part 2:1
	Soldering information	320°C max for 3s
Body Style		59 –
	Standard round bezel	1
	Standard square bezel	2
	Illuminated round bezel	4
	PBT round bezel	5
Termination		
	Solder terminals	1
Button Colour		
	Black	1
	Red	2
	Green	3
	White	4
	Yellow	5
	Blue	6
	Orange	7
	(Illuminated version only available with Black, Red and Green as standard. Non-standard colours subject to MOQ's)	
LED Colour		
	Red	R
	Green	G
	(This digit is only required for illuminated part	
	numbers)	
Panel Mounting		
& Construction Information	The Series 59 mounts easily into panels of minimum 1,5mm and maximum 3mm thickness. Front panel sealing to IP67 is achieved by the use of a sealing 'O' ring 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 14mm spanner, to a torque of between 1.0Nm to 2.0Nm to achieve the correct sealing pressure.	
	A 'D' flat is provided to prevent rotation.	
Ingress Protection Impact Key		
		IP67
	Ingress	
	6	7
	6 training protected against tool Trotected against tool too	



Data Sheet no. 59500

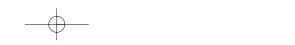
SERIES 59 Miniature Sealed Pushbutton

Technical Information

Product Dimensions

Product Dimensions		
	Round Bezel	Illuminated Round Bezel
	7.0	017,45
	5,15 Terminal spacing	7,0
	Square Bezel	5,25 LED Pinout
	7,0 13,0 M12 x 1	Panel Cut Out 12,90 12,95 12,95 12,95 12,95
		Note: Panel cut out is applicable for all styles
		All dimensions in Millimetres
Circuit Form		
Application References		
	CommunicationsInstrumentationData entry	Military environmentsEnvironmentally demanding keypadsMass transport controls
Further Information		
	For further information on our complete range of switch products, visit our website – www.itwswitchcon.com or contact our Sales Office.	
TW Switches	TW Switches, Division of ITW Limited, Norway Ro Fel: +44 (0)2392 694971 Fax: +44 (0)2392 666352	oad, Hilsea, Portsmouth PO3 5HT, UK 2 Website: www.itwswitchcon.com

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