REED SWITCH

DATASHEET 3.24

REED SWITCH

A Reed Switch developed for Cathodic Protection applications where switching to facilitate Off readings from a test post facility is required

Technical specification	Standard	Small body
Max. switched voltage	150V	175V
Max. switched current	1.0A	0.25A
Max. switched power	25VA	5VA
Breakdown voltage	250V	200V
Pull in range	70/80AT	20/30AT
Contact Resistance	0.10 ohms	0.10 ohms

If requested a budget standard size switch can be made by placing the 0.25A device in the standard encapsulation. These will be distinguished easily from the normal switch as they will use red wires and the standard switch uses black wires.

The device consists of a glass reed switch fully encased in a black epoxy resin 100x15x15mm. The contacts are M12 eyelets crimped on the ends of stiff and flexible single core wires 75mm from the resin. Overall size is 315mm end to end. The wires can be bent by hand to any required shape without difficulty and still maintain that shape over time.

The smaller body switch measures 60x15x15mm and was designed to fit in a space where the fitting of the standard switch was difficult. Its wires are longer by 20mm each so that its overall length is the same as the standard switch.

The reed switch is a normally closed switch and at installation it is wired permanently in series with the anode connection. Operation is by placing a magnet close to the switch, thus causing the switch to open. If a millimeter is connected across the switch connections, then the meter (set to the appropriate scale) will read the current that is diverted through the meter when the reed switch is opened.

The encapsulated reed switch has a maximum rating of 1000mA at 150V DC. This is absolutely the maximum rating and is for a resistive load. The mmf required to effectively operate the switch is 70/80 AT.

Reed Switch Magnet

50mm x 25mm x 10mm

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