## **Reed Switch**





### **Description**

Heavy Duty Magnetic Proximity Sensor is designed as a general purpose position or movement sensor; it should not be used in or relied on in safety related applications.

### **Operation and Use**

The product is a normally open reed switch based sensor that closes when in the presence of a magnetic actuator. The non contact operation of these sensors make them suited to applications where misalignment or contamination from dust and solids are a concern. When mounted on or near ferrous surfaces the operating distance will be reduced. Avoid close proximity to strong magnetic fields i.e. electric motors and solenoids. The switch may be operated through a non ferrous skin such as non magnetic stainless steel, plastic, aluminium and non ferrous castings etc. possibly enabling the switch and its connections to be inside part of a housing or machine. The sensors may be operated from three sides.

#### **Specifications**

Contact Form : N/O normally open

Max. Contact Rating : 100 VA do not exceed product of voltage x amps

Max. Switching Voltage : 250V DC

Max. Switching Current : 3 Amps DC resistive
Max. Carry Current : 6 Amps DC resistive

 $\begin{array}{ll} \mbox{Min. Breakdown Voltage} & : 400 \mbox{V DC} \\ \mbox{Capacitance} & : 0.6 \mbox{pF} \\ \mbox{Contact Resistance} & : 100 \mbox{m} \mbox{\Omega} \end{array}$ 

Temperature Range : -10°C to +70°C

Max. Vibration : 30 G's 50-2000 hertz's

Max Shock : 100 G's 11ms ½ sine wave

Resonate Frequency : 850Hz
Pull in Time : 4.5 ms
Release Time : 2.5 ms
Environmental Protection : IP64

Operating distance AM/5 : Make 13mm release 23mm nominal Cable : 0.7 metres of 3183Y 0.75²mm

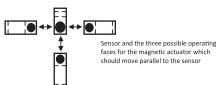
Common : Brown wire

Normally open : Blue wire

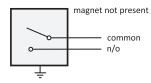
Earth : Green / yellow wire

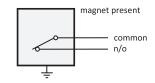
# Tested at 240Vac 400 mA for 500K operations and 115Vac 1 Amp for 100K operations with resistive test loads. Switching inductive, capacitive or reactive loads will reduce life expectancy

#### **Operating positions**



#### Schematic diagram





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#### **Part Number Table**

Description	Part Number
Reed Switch, Panel Mount, 13mm, SPST-NO, 100 VA, 250V DC, 3A	N/03

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