



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

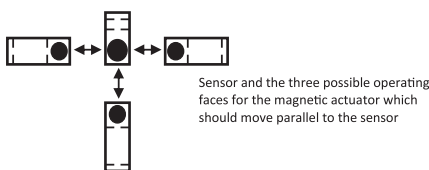
The product is a normally open reed switch based sensor that closes when in the presence of a magnetic actuator. The non contact operation of these sensors make them suited to applications where misalignment or contamination from dust and solids are a concern. When mounted on or near ferrous surfaces 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

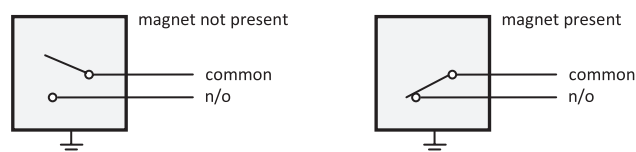
Contact Form	: N/O normally open
Max. Contact Rating	: 100 VA do not exceed product of voltage x amps
Max. Switching Voltage	: 250V DC
Max. Switching Current	: 3 Amps DC resistive
Max. Carry Current	: 6 Amps DC resistive
Min. Breakdown Voltage	: 400V DC
Capacitance	: 0.6pF
Contact Resistance	: 100mΩ
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 0.75 ² mm
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



Part Number Table

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

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp is the registered trademark of the Group. © Premier Farnell Limited 2016.