



Description

Miniature 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.

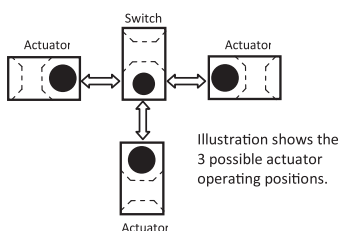
Operation and Use

The product is a reed switch based sensor whos contacts change over 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.

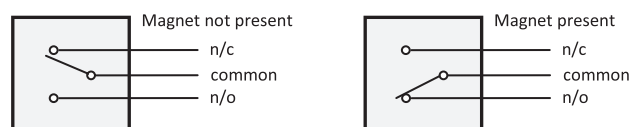
Specifications

Contact Form	: Single Pole Change over
Max. Contact Rating	: 5 VA do not exceed product of voltage x amps
Max. Switching Voltage	: 75V DC
Max. Switching Current	: 0.25 Amps DC resistive
Max. Carry Current	: 1 Amps DC resistive
Min. Breakdown Voltage	: 200V DC
Capacitance	: 1pF
Contact Resistance	: 100mΩ
Temperature Range	: -10°C to +70°C
Max. Vibration	: 30 G's 50-2000 hertz's
Max Shock	: 50 G's 11ms ½ sine wave
Resonate Frequency	: 11,000Hz
Pull in Time	: 0.7 ms
Release Time	: 1 ms
Environmental Protection	: IP65
Operating distance AM/5	: Make 13mm release 19mm nominal
Operating distance AM/8	: Make 20mm release 29mm nominal
Cable	: 0.5 metres of black round 7-2-3A DEF61-12
Connections	: Blue = com, green = n/o, red = n/c
Housing Material	: Diecast zinc

Operating positions

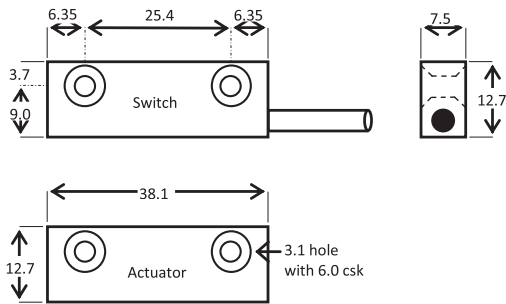


Schematic diagram



Dimensions

Both the switch and actuator have the same dimensions.



Dimensions : Millimetres

Part Number Table

Description	Part Number
Reed Switch, Flange, 9mm, SPDT, 3 VA, 175V DC, 0.25A	C/03/M

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