

MAGNETIC SENSOR

MP1014 Series

Digital Hall-effect proximity sensor in low-profile flange mount housing.

Features

- Capable of millions of operations.
- Meets IEC529 IPx5 for water protection.
- Reverse batter protection to -24VDC.
- MP101402 provides highly sensitive unipolar switching.
- MP101403 latches in presence of south pole and unlatches in presence of north pole magnet.
- ESD protected to +/- 6kV
- MP101401 and MP101402 interface with AS101001 magnet

Applications:

- Door position sensing
- Flow sensing
- Pedal Switch

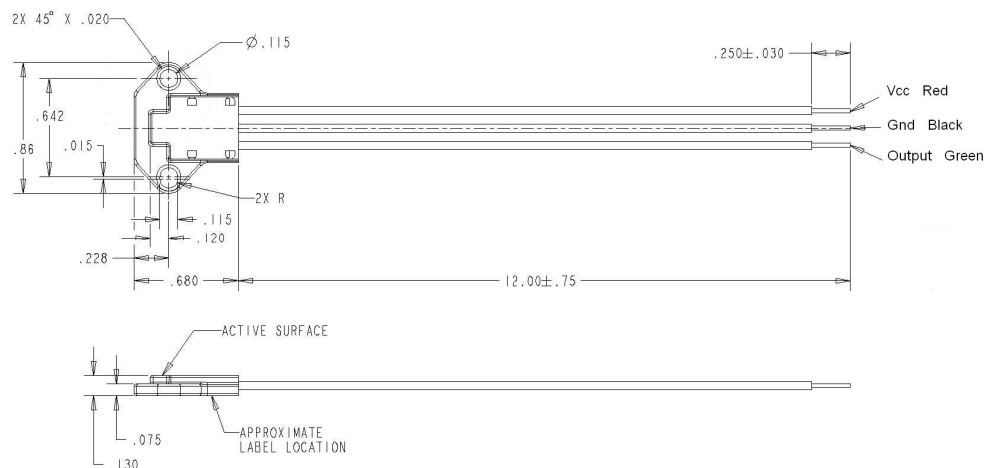


Specifications

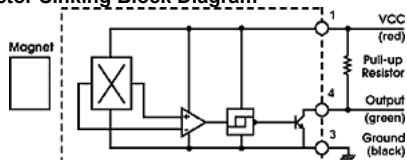
Part Number	Operating Voltage Range (VDC)	Supply Current (mA max)	Output	Output Saturation Voltage (mV max)	Output Current (mA max)	Operating Temperature Range (°C)	Function	Operate Point Gauss (max)	Release Point Gauss (min)
MP101401	4.5 - 18	5.2	3-wire sink	400	20	-40 to 85	Unipolar Switch	139	47
MP101402	4.5 - 24	5.2	3-wire sink	400	20	-40 to 85	Unipolar Switch	70	50
MP101403	4.5 - 24	5.2	3-wire sink	400	20	-40 to 85	Bipolar Latch	100	-100 (latch)

Notes: These sensors require the use of an external pull-up resistor, the value of which is dependent on the supply voltage
Pull-up resistor should be connected between output (Green) and Vcc (Red).

Dimensions inches (mm)



Open Collector Sinking Block Diagram



Recommended pull-up resistor values:					
Volts DC	5	9	12	15	24
Ohms	1K	1.8K	2.4K	3K	3K

Specifications subject to change without notice.

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