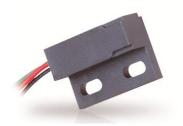
Magnetic Proximity Sensors (Hall Effect)

MP1021 Sensors

Digital Hall-effect position sensor in low-profile flange-mount housing



Description

The MP1 Series sensors are one-piece non-contact solid-state position sensors. The sensors operate through the use of Hall Effect technology with magnetic fields generated by permanent magnets. They provide a sinking current output.

Features

- Solid state reliability
- · Flange-mount housing
- Stable output over operating temperature range
- Compatible with unregulated power supply
- Open collector (NPN) output can be used with bipolar or CMOS logic circuits with suitable pull-up resistor
- North pole sensitive
- Unipolar device (MP102101, MP102102, MP102103)
- Latching versions available (MP101404, MP102105, MP102106)
- · RoHS compliant
- IP67

Typical Applications

- Door position & interlock
- Limit switch
- Flow/speed
- Home security
- Pedal switch

Environmental Specifications

Operating Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Storage Temperature	-40 °C to 85 °C (-40 °F to 185 °F)
Ingress Protection	IP67

Electrical Specifications

Operating Supply Voltage	4.5 to 24 VDC
Supply Current	5 mA typ., 12 mA max.
Output Current (Sink)	20 mA max.
Maximum Reverse Voltage	30 VDC
Pull-Up Resistor	See chart

Mechanical Specifications

Housing Material	Glass-reinforced plastic
	Ciaco remiereca piacae

Products

Sensing Location	Termination
С	24 AWG x 314 mm
A	24 AWG x 314 mm
В	24 AWG x 314 mm
Α	24 AWG x 314 mm
В	24 AWG x 314 mm
С	24 AWG x 314 mm
	C A B A



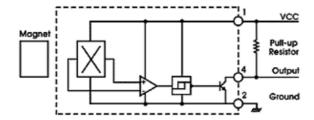


Note: An external pull-up resistor is required, the value of which is dependent on the supply voltage. The resistor should be connected between the output and Vcc. Refer to the wiring diagram for lead colors or pin numbering as applicable.

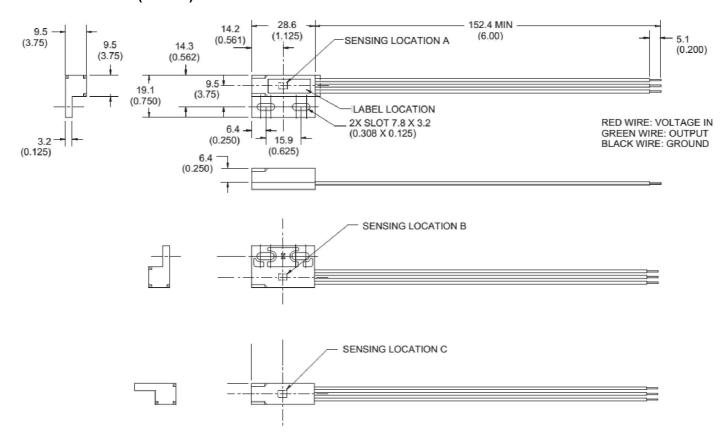
Recommended External Pull-Up Resistor

Volts DC	5	9	12	15	24
Ohms	1k	1.8k	2.4k	3k	3k

Open Collector Sinking Block Diagram



Dimensions mm (inches)





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