# MAGNETIC SENSOR **1021 Series** P



# Digital Hall-effect proximity sensor in plastic flange-mount housing.

#### **Features**

- Three sensing orientations available in a convenient flange mount housing
- Excellent output stability over operating temperature range
- Compatible with unregulated power supply
- Reverse battery protection to -24VDC • Meets IEC529 IP67 for dust and •
- water protection Open Collector (NPN) output can be • used with bipolar switch or cmos logic circuits with suitable pull up resistor
- MP1012101-03 north pole activated • unipolar switch
  - Output switches low (off) when the magnetic field at the sensor exceeds the operate point threshold.

- Output switches high (on) when the magnetic field is reduced to below the release point threshold
- MP102104-06 bipolar latch
  - Output latches high (on) in the presence of a north pole
  - Output unlatches (low or off) in the presence of a south pole

# **Applications**

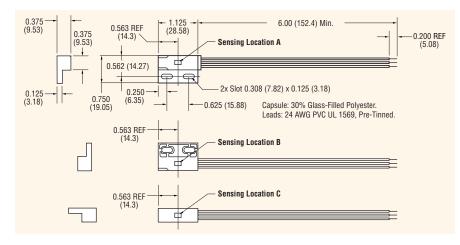
- Interrupt switch
- Limit switch
- Door position

Specifications										
Part Number	Operating Voltage Range (VDC)	Supply Current (mA max.)	Output	Output Saturation Voltage (mV max.)	Output Current (mA max.)	Operating Temp Range (°C)	Function	Operate Point Gauss (max.)	Release Point Gauss (min.)	Sensing Location
MP102101	4.5 – 24	12	3-wire sink	500	25	-40 to 85	Switch	400 <i>(north)</i>	195 <i>(north)</i>	А
MP102102	4.5 – 24	12	3-wire sink	500	25	-40 to 85	Switch	400 (north)	195 <i>(north)</i>	В
MP102103	4.5 – 24	12	3-wire sink	500	25	-40 to 85	Switch	400 (north)	195 <i>(north)</i>	С
MP102104	4.5 – 24	12	3-wire sink	500	25	-40 to 85	Latch	60 <i>(north)</i>	60 <i>(south)</i>	А
MP102105	4.5 – 24	12	3-wire sink	500	25	-40 to 85	Latch	60 <i>(north)</i>	60 <i>(south)</i>	В
MP102106	4.5 – 24	12	3-wire sink	500	25	-40 to 85	Latch	60 (north)	60 <i>(south)</i>	С

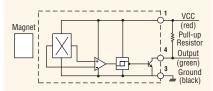
Notes: These sensors require the use of an external pull-up resistor, the value of which is dependent on the supply voltage. See page 18 for recommendations. Pull-up resistor should be connected between output (Green) and Vcc (Red).

#### **Dimensions** inches (mm)

All tolerances ±0.005 (0.13) unless otherwise noted.



### **Open Collector Sinking Block Diagram**



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Specifications subject to change without notice.