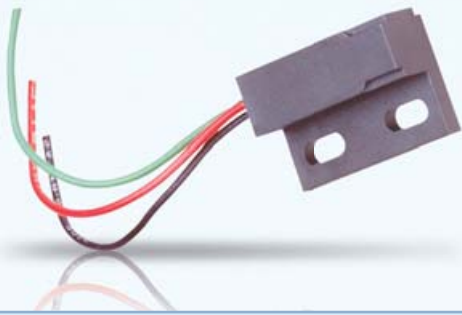


MP1021 Series



Digital Hall-effect position sensor in plastic flange-mount housing.

Features

- Three sensing orientations available in convenient flange mount housing
- Excellent output stability over operating temperature range
- Compatible with unregulated power supply
- Reverse battery protection to -24VDC
- Open Collector (NPN) output can be used with bipolar switch or CMOS logic circuits with suitable pull up resistor
- MP102103 – 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
- RoHS Compliant

Applications

- Interrupt switch
- Limit switch
- Door position

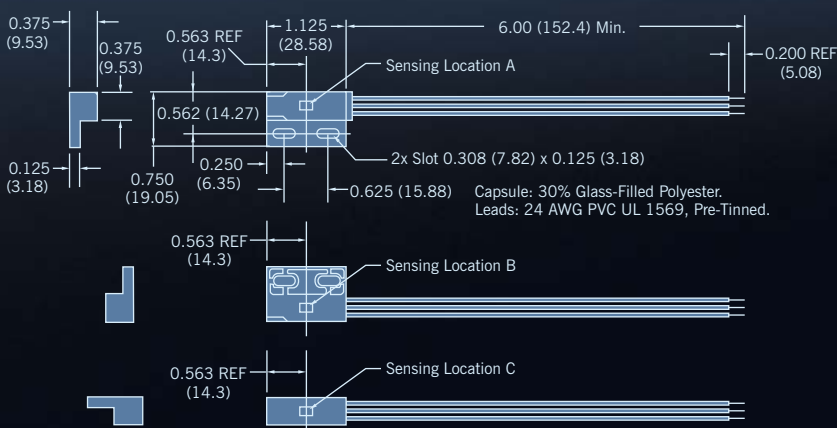
Specifications

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
MP102103	4.5 – 24	12	3-wire sink	500	25	-40 to 85	Switch	400 (north)	195 (north)	C

Notes: These sensors require the use of an external pull-up resistor, the value of which is dependent on the supply voltage. See page 27 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

