

MAGNETIC SENSOR

MP1013 Series



Hall-effect proximity sensor with convenient snap-fit mounting.

Features

- Solid State Reliability
- Excellent output stability over operating temperature range
- Regulated power supply not required
- 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

MP101301 and MP101302 – south pole sensitive 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
- Interfaces with AS101001 magnet

MP101303 – bipolar latch

- Output latches high(on) in the presence of a south pole.
- Output unlatches (low or off) in the presence of a north pole

Applications:

- Speed sensing
- Door interlock sensing
- Water flow sensing

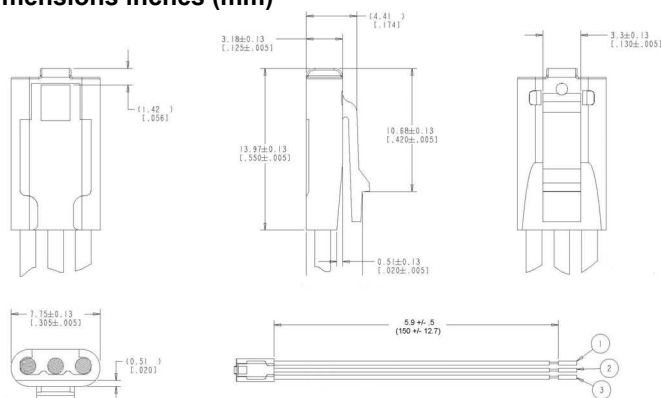
Specifications

Part Number	Operating Voltage Range (VDC)	Supply Current (mA max)	Output	Output Saturation Voltage (mV max)	Output Current (mA max)	Operating Temperature Range (°C)	Storage Temperature Range (°C)	Operate Point Gauss (max)	Release Point Gauss (min)	Leads	Reverse Battery Protection
MP101301	3.8 - 24	7.5	3-wire sink	400	25	-40 to 85	-40 to 85	245	60	24 awg x 150mm	-30VDC
MP101302	3.8 - 24	7.5	3-wire sink	400	25	-40 to 150	-40 to 150	245	60	24 awg x 150mm	-30VDC
MP101303	4.5 - 24	5	3-wire sink	500	20	-40 to 85	-40 to 85	60	-60 (latch)	24 awg x 150mm	None

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).

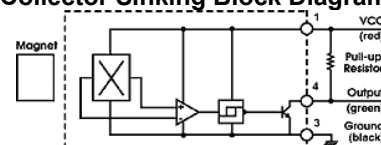
Recommended pull-up resistor values:					
Volts DC	5	9	12	15	24
Ohms	1K	1.8K	2.4K	3K	3K

Dimensions inches (mm)

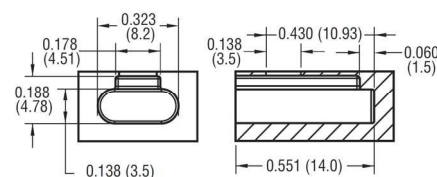


Specifications subject to change without notice.

Open Collector Sinking Block Diagram



Sensor Pocket



Revised 101212

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ZF Electronics:](#)

[MP101302](#)