

Magnetic Proximity Sensors (Hall Effect)

MP1014 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
- South pole sensitive
- Unipolar device
- RoHS compliant
- Low profile design
- IP65

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 100 °C (-40 °F to 212 °F)
Ingress Protection	IP65

Electrical Specifications

Operating Supply Voltage (MP101401)	4.5 to 18 VDC
Operating Supply Voltage (MP101402)	4.5 to 24 VDC
Supply Current	3.0 mA typ., 5.2 mA max.
Output Current (Sink)	20 mA max.
Maximum Reverse Voltage (MP101401)	18 VDC
Maximum Reverse Voltage (MP101402)	15 VDC
Pull-Up Resistor	See chart

Mechanical Specifications

Housing Material	Glass-reinforced nylon plastic
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Products

Part Number	Leads
MP101401	24 AWG x 314 mm
MP101402*	24 AWG x 314 mm

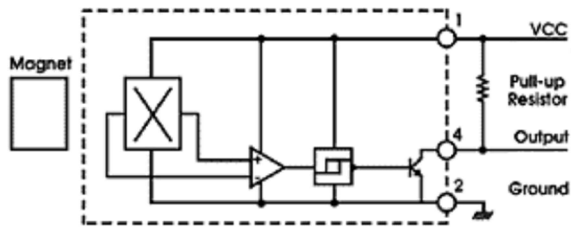
*Not commonly stocked

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.

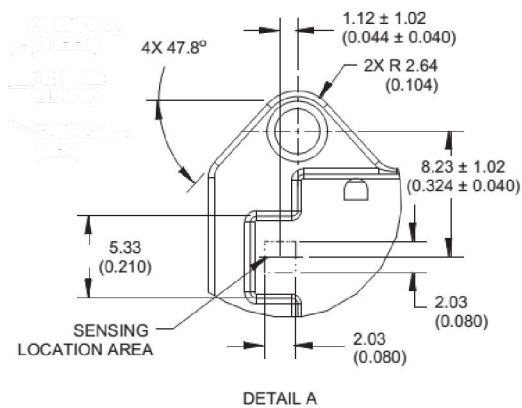
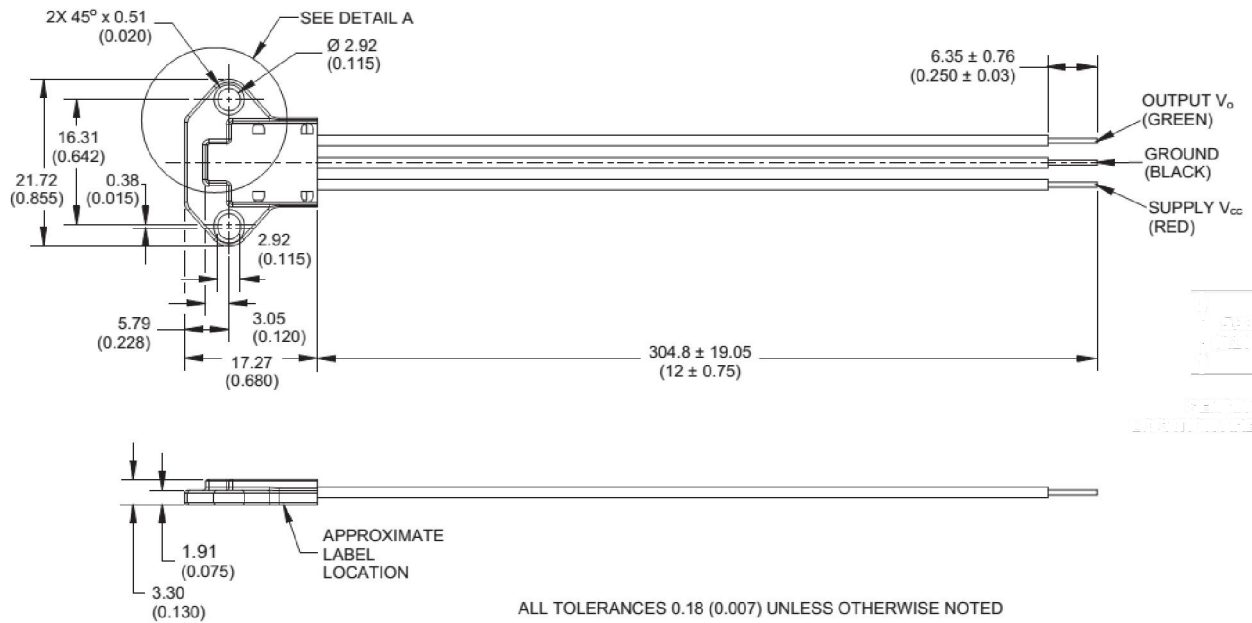
Recommended External Pull-Up Resistor

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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Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com