



Electrical Specifications

Effective rotational sensing range	0 to 360 degrees of rotation
Input Voltage	5.0VDC $\pm$ 10%
Max Overvoltage	14VDC reversed voltage -10VDC
Output Current Range	8mA
Resolution	Analog
Conduction and Coupling	SAE J1113-12; $\pm$ Level 3
Electronic Discharge	SAE J1113-13; $\pm$ 15kV
Immunity to Magnetic Fields	SAE J1113-21
Conducted Transient Emissions	SAE J1113-42
Radiated Emissions	SAE J1113-41; Class 4
Output Linearity (with supplied magnet)	$\pm$ 2.5% Full Scale
Analog Output Slew Rate	200V.ms
Accuracy	$\pm$ 2%
Operating Temperature	-40 to 125°C

Sensor Output Signal

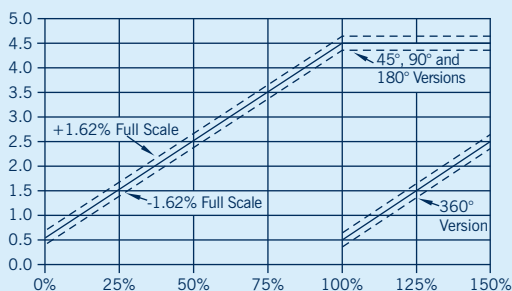
Rotation Angle

(Percent of Sensing Range: 45°; 90°; 180°; or 360°)

Output Voltage

(Vs = 5VDC.

Output is ratiometric for Vs = 4.5 to 5.5VDC.)



Sensor	Sensing Range	Sensor/Magnet Assembly Kit #
AN820001	180°	CU103601*
AN820002	360°	CU103602*
AN820003	45°	CU103603*

Magnets

Actuator Magnet

AS101001

Easy to install actuator magnet with threaded aluminum holder.

- South pole facing Alnico magnet

Also available in the same package:

- AS101002 with north pole facing Alnico magnet
- AS101003 with south pole facing samarium cobalt magnet

Magnet Carrier

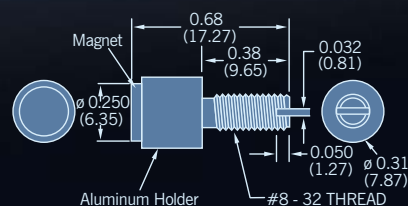
AS500106

- PPS Housing
- SmCo28 Magnet
- Recommended fastener: M4 Cap Screw
- Recommended torque: 3 Nm (26.5 in lbs.)

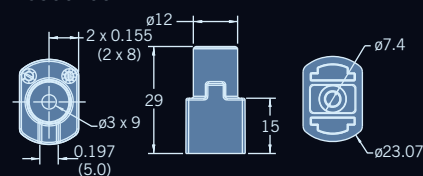
Dimensions inches (mm)

All tolerances $\pm$ 0.005 (0.13) unless otherwise noted.

AS101001



AS500106



*Includes AN8 sensor and AS500106 magnetic actuator