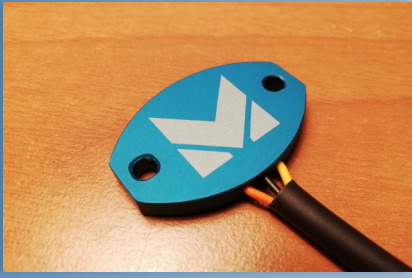


EMOTICOM



eM036 Magnetic Angular Sensor

eM036 is a compact high-performance contactless sensor that can be used to detect the angular position of magnets mounted on end of shafts. Possible applications range from gear position detection, throttle position (TPS) and accelerator position sensors for drive by wire systems (redundant version available). Automotive qualified.

TECHNICAL SPECIFICATIONS

- ◆ Ambient Temperature Range: -40... +170°C
- ◆ Operative voltage: 5V (max 13mA)
- ◆ Programmable by factory to operate for 90° / 120° / 180° / 360° (custome angle on request).
- ◆ Short circuit protected push-pull output
- ◆ Internal diagnostic (output to 5.0V in case of internal fault or in absence of magnetic field)
- ◆ Over and reverse voltage protection
- ◆ Ratiometric Analog 5V Output (PWM option available on request).
- ◆ Automotive qualified.
- ◆ EMC and ESD robust
- ◆ Redundant version available on request
- ◆ Resolution: 12 bit
- ◆ Sample frequency: 8 KHz
- ◆ Angular Accuracy: +/- 0.5% FS (max non linearity +/- 3 LSB)
- ◆ High sensitivity: down to +/-20mT
- ◆ Cable length: 40cm (3 open wires 0.5mm²)
- ◆ Material: anodized aluminum
- ◆ Dimensions: 40x27x5mm
- ◆ Weight: <20g (includes cable)
- ◆ Protection grade: IP65

For information
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