Technical Data Sheet

Magnetic Detector - DTCMAG

Features

- Motion sensor: RPM, wheel speed.
- Near Zero speeds sensing capability.
- Low power consumption.
- Excellent EMI/RFI immunity.
- Extended temperature range.
- Small size.
- Industry standard mini sure-seal® connector.
- Meets IEC529 IP67 for dust and water protection.

Description

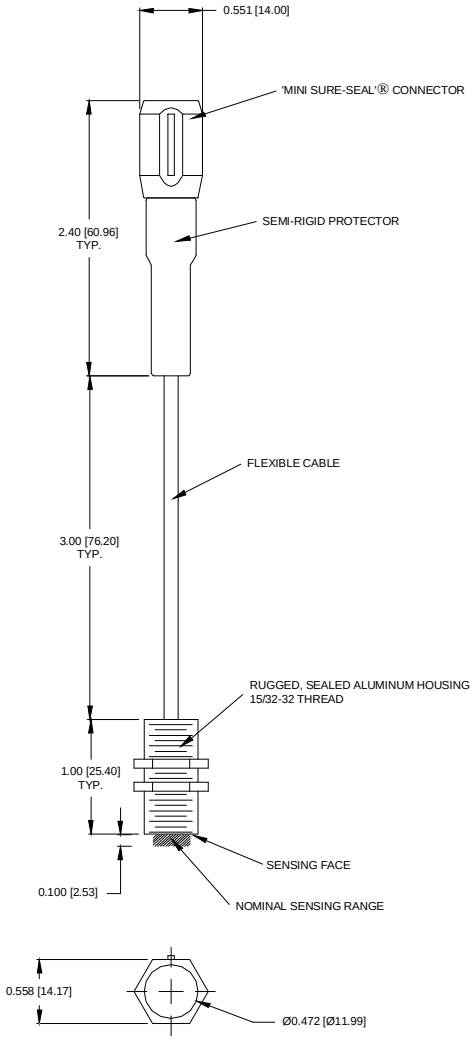
The Magnetic detector generates an electrical signal when the pole of a magnet or the edge of a ferrous object approaches within the switching range of the sensing face. The Magnetic detector can be used to sense a motion to measure a speed accurately.

Specifications

- Min. detection speed: Near Zero
- Max. detection speed: 8kHz
- Oper. Temp.: -40°C to 125°C.
- Power supply: 5-24 VDC, 6mA max.
- Output Configuration: Sinking, 24mA max.
- Nominal sensing range: 0 to 2.54 mm
  0 to 0.100”
- Weight: 21 grams (0.741 oz).

Installation

- Mount the detector directly to the chassis (or on a suspension arm).
- Fix the magnet(s) or ferrous object(s) on the moving medium.
- Connect the sensor to a detector input of the system: DTC.
- Protect the detector from extreme vibrations.
- Do not expose detector to water, oil or fuel.
- Do not place detector near sources of interference, such as ignition coils, plug leads, electronic modules or antennas.
- Verify that cable is not pinched or stretched by surrounding moving parts.
- Do not bend cable with curvature radius less than 1.60″ [40 mm].
- Carefully align indexing rib when mating mini sure-seal® connectors.



All dimensions are in inches [millimeters].

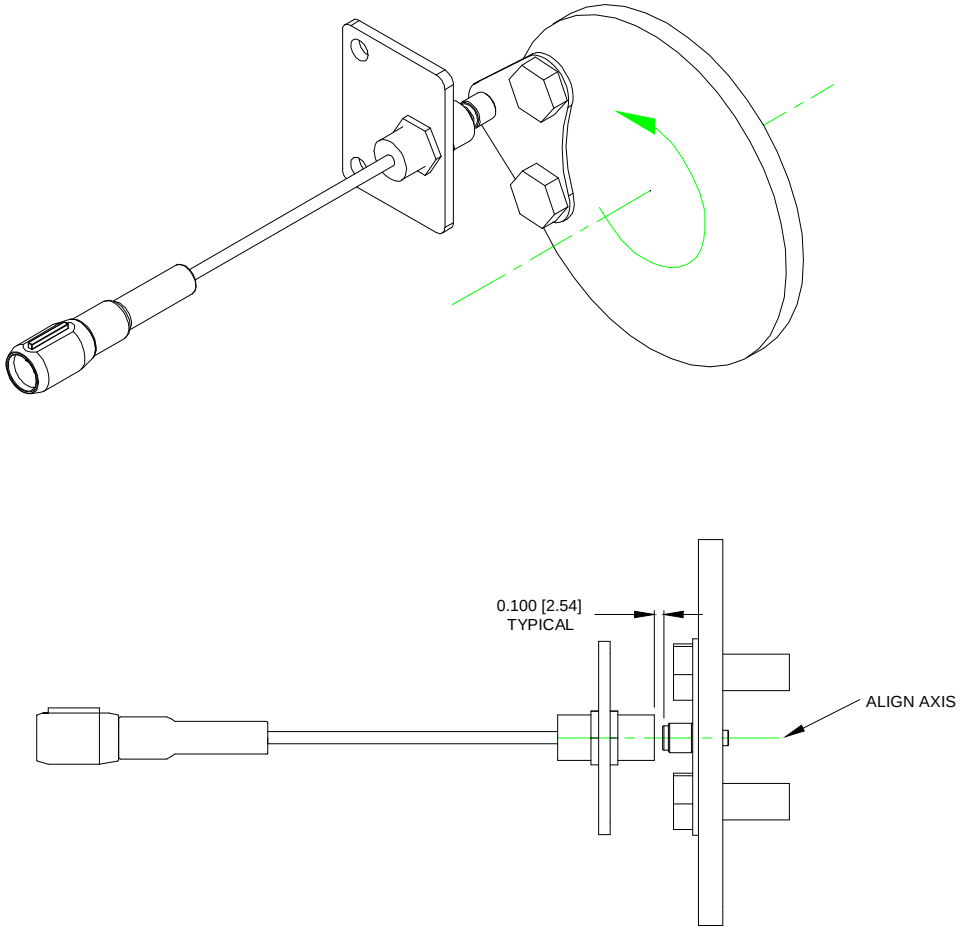


Figure 1: Magnetic detector installation.
All dimensions are in inches [millimeters].