GEARTOOTH SPEED SENSOR



Flange mount gear sensor rated to 125°C.

Features

- Senses motion of ferrous geartooth targets
- Near zero speed sensing capability
- Immune to rotational alignment
- 10 bit dynamic threshold detection offers:
- Automatically adjusting magnetic range
 Self compensating to target geometry
- Immune to target run out
- Compatible with unregulated power supply
- Reverse battery protected to -24VDC
- Internal circuit protection to IEC529 1000
 EMI resistant to 10V/m, 30MHz to 1GHz
 - ESD resistant to 4kV
- (contact discharge)
- Fast transient resistant to 2kV

- Conducted immunity resistant to 10VRMS@150kHz to 80MHz
- EMC compatible 30A/m@50Hz
- Meets IEC529 IP67 for dust and water protection
- Integral Connector: 3-pin Delphi Metri Pack 150.2 Series No. 12162833 mates with Delphi 12162280 and 12162279
- Discrete wire version: 22 AWG, tin plated, polyolefin insulation
- 150°C version also available. Consult factory

Applications

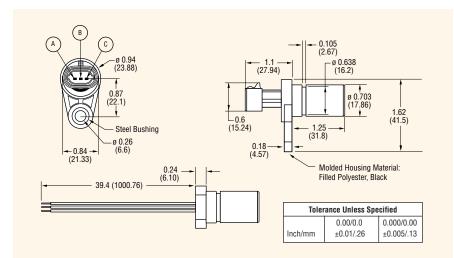
- Wheel speed
- Transmission speed
- Anti-lock braking systems

Specifications Output Operating Operating Supply Saturation Output Storage Voltage Range Current Voltage Temp Range Temp Range Part Current Number (VDC) (mA max.) Output (mV max.) (mA max.) (°C) (°C) Leads Connector GS101201 5.0 - 246 sink 400 25 -40 to 125 -40 to 125 Delphi* GS101202 22 AWG 5.0 - 246 400 25 -40 to 125 -40 to 125 sink x 1m BBB

*Metripak 150 Series. Mates with Delphi 12162280 and 12162279.

Notes: These sensors require the use of an external pull-up resistor, the value of which is dependent on the supply voltage. See page 18 for recommendations. Pull-up resistor should be connected between output (Black) and Vcc (Brown).

Dimensions inches (mm)



Open Collector Sinking Block Diagram

