



GS50 Sensors

Catalog MSG33-2358/US



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Application

The GS50 speed sensor belongs to the Parker family of accessories provided to complement electronic control systems. The GS50 is a digital output, non-contact, ferrous sensor and has a wide voltage supply range for mobile hydraulic applications. The GS50 can be used as a speed pickup with a variety of toothed wheels. The sensor has twelve inch leads with an attached Deutsch connector. To make the sensor suitable for mobile equipment, we have focused upon properties such as reliability and ease of installation.

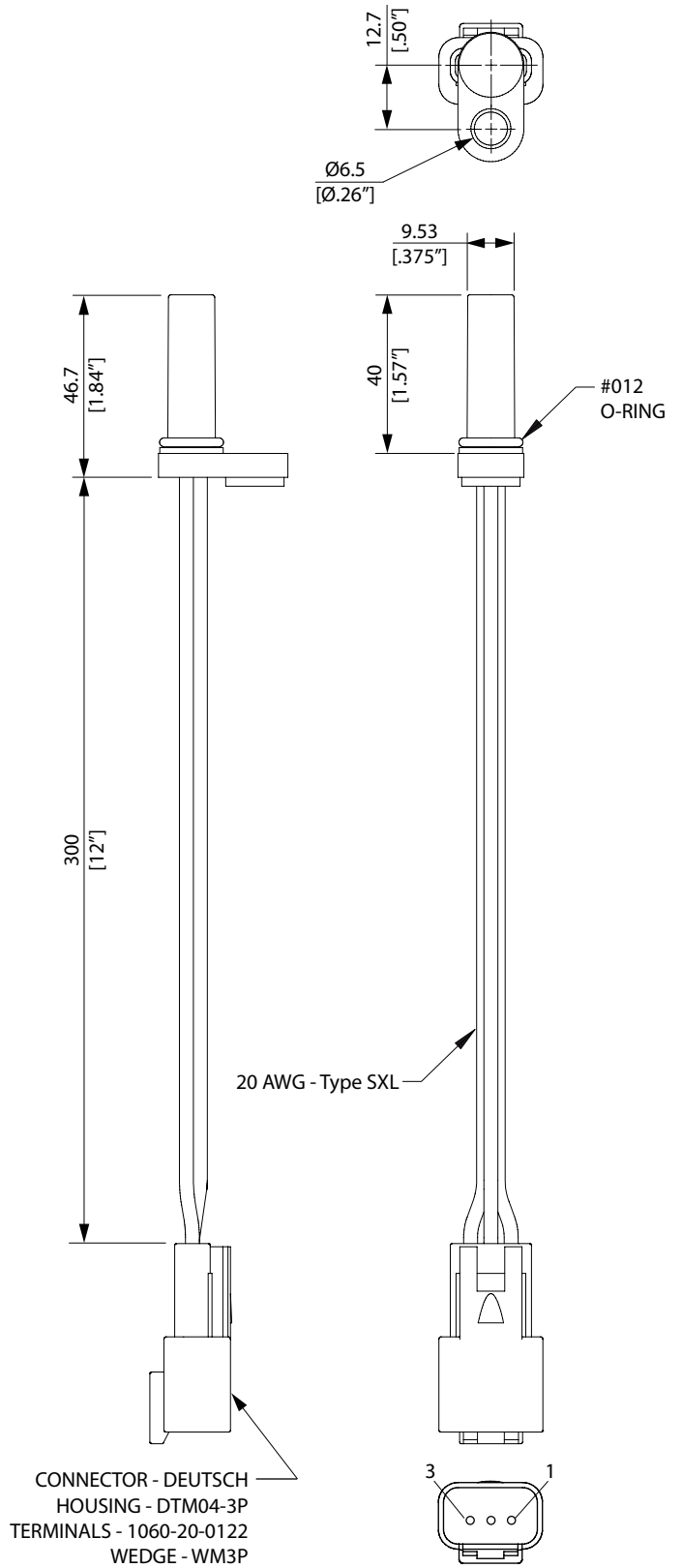
Properties

Reliability

The GS50 has a glass-filled nylon plastic construction for sturdiness and corrosion resistance. The mounting hole is reinforced with an aluminum insert for added strength. The sensor uses back-biased, Hall-effect technology for trouble free operation. The GS50 has a self-adjusting digital output which is immune to variations in air gap and rotary alignment. The sensor is very robust and able to withstand rugged applications.

Installation

The GS50 is well designed for the mobile hydraulics industry. The sensor barrel has an o-ring seal. The 3 pin connector is a sealed Deutsch DTM type designed for automotive use. This connector combined with potted electronics gives the sensor IP67 protection for exposed outdoor applications. The single mounting hole in the flange simplifies alignment. These features provide for easy installation and removal, even in field conditions.



General

Weight 23 g
 Temperature range -20°C to 125°C
 Air gap 0 - 3 [0 - .12"]
 (target size and material dependent)

Mechanical characteristics

Mounting Flange
 Connector Deutsch DTM

Electrical specifications

Frequency range 0 - 15 kHz
 Supply Voltage(Vs) 5 - 16 Vdc operational
 Max 30 Vdc
 Current supply 3 mA typical
 Max 6 mA
 Output type Digital switch,
 open collector¹
 Output current Max 25 mA

Ordering part number

GS50 01711ECD

Environmental protection

ESD

JEDEC 22-A114 HBM 3 kV

Mechanical

Shock 1m drop
 Vibration 30 Gs

Climate

Sealing (electronics) IP67

Chemical environment

Liquids (resistance) standard automotive

1) *Requires external output resistor.
 Refer to installation sheet for more information.*



WARNING - USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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WARNING - California Proposition 65

This product can expose you to chemicals including CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE), NICKEL COMPOUNDS, SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) (O2SI) which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

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