



GS70 Speed Sensors

Catalog MSG33-2378/US



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Application

The GS70 speed sensor belongs to the Parker family of accessories provided to complement electronic control systems. The GS70 is a digital output, non-contact, ferrous sensor and has a wide voltage supply range for mobile hydraulic applications. The GS70 can be used as a speed pickup with a variety of toothed wheels. The sensor has short wire 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.

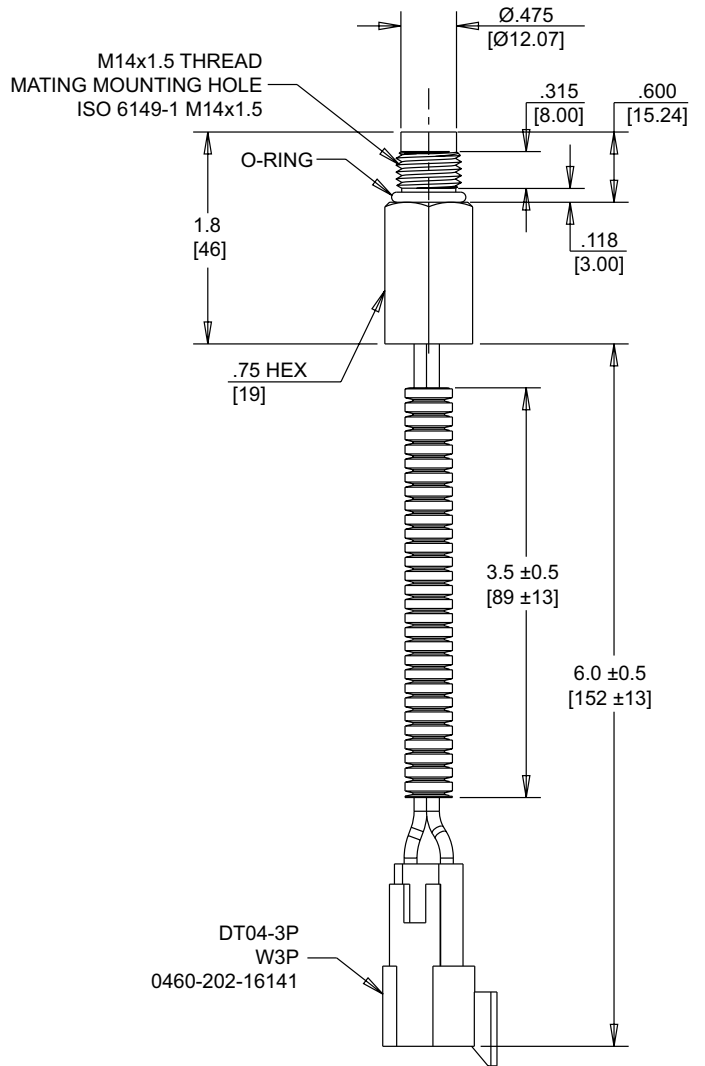
Properties

Reliability

The GS70 has stainless steel construction for sturdiness and corrosion resistance. The GS70 uses back-biased, Hall-effect technology for trouble free operation. The sensor 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 GS70 is well designed for the mobile hydraulics industry. The sensor fits a common metric straight thread diagnostic port. The nitrile o-ring is included. The 3 pin connector is a sealed Deutsch DT type designed for automotive use. This connector combined with potted electronics gives the sensor IP67 protection for exposed outdoor applications. These features provide for easy installation and removal, even in field conditions.



General

Weight 0.22 kg
 Temperature range -40 to 85 °C
 Air gap .118 [3.0]
 (varies with target and speed)

Mechanical characteristics

Mounting ISO 6149-1 M14x1.5
 Connector Deutsch DT

Electrical specifications

Frequency range 0 - 15 kHz
 Supply Voltage (Vs) 5 - 30 Vdc
 Operational Voltage 5 - 27 Vdc
 Current supply Max 13.5 mA
 Output type Open collector¹
 Output current Max 30 mA

Ordering part number

GS70 154877ECD

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 an external pull-up 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.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
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WARNING - California Proposition 65

This product can expose you to chemicals including COBALT METAL POWDER, NICKEL COMPOUNDS, EPICHLOROHYDRIN which is known to the State of California to cause cancer and EPICHLOROHYDRIN which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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