



# GS60 Sensors

Catalog MSG33-2359/US



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**Application**

The GS60 speed sensor belongs to the Parker family of accessories provided to complement electronic control systems. The GS60 is a digital output, non-contact, ferrous sensor and has a wide voltage supply range for mobile hydraulic applications. The GS60 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, electromagnetic immunity and ease of installation.

**Properties**

**Reliability**

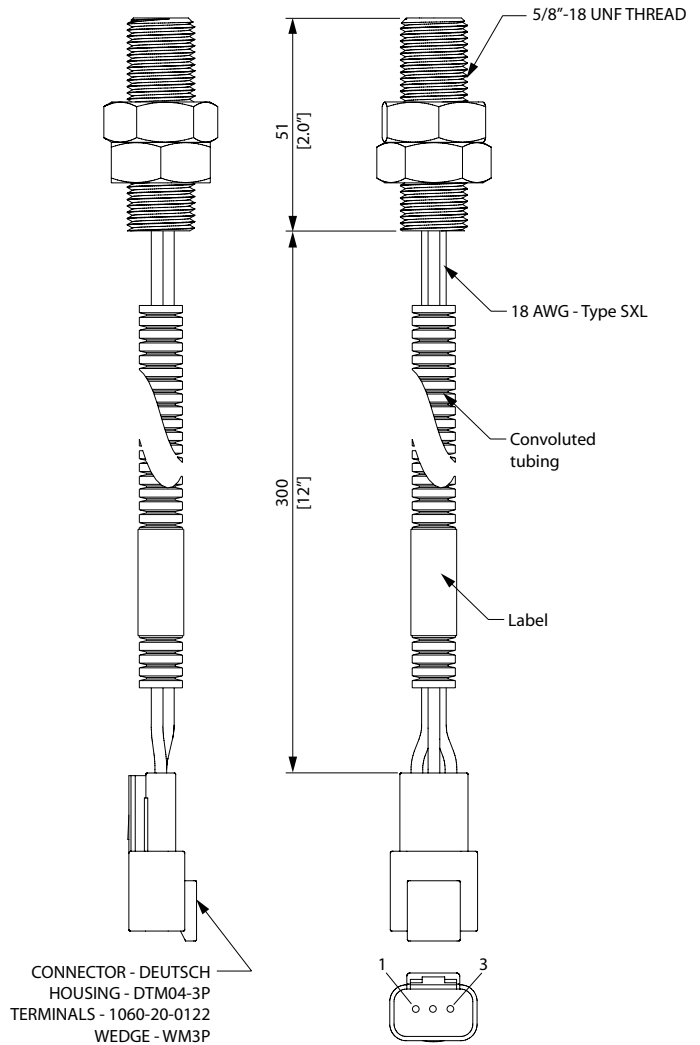
The GS60 has stainless steel construction for sturdiness and corrosion resistance. The heavy-duty mounting nuts for locking the sensor in position are also stainless steel. The wires are protected from abrasion by convoluted tubing. The sensor uses back-biased, Hall-effect technology for trouble free operation. The digital switch has an internal pull-up resistor and 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.

**Electromagnetic immunity**

The design of the GS60 has a high level of EMI protection.

**Installation**

The GS60 is well designed for the mobile hydraulics industry. The sensor body is threaded for its entire length and is a common 5/8" diameter. 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 fully threaded barrel provides for easy installation and removal, even in field conditions.



**General**

Weight 94 g  
 Temperature range -40°C to 85°C  
 Air gap 0 - 5.0 [0 - .197"]  
 (target size and material dependent)

**Mechanical characteristics**

Mounting Threaded body  
 Connector Deutsch DTM

**Electrical specifications**

Frequency range 0 - 10 kHz  
 Supply Voltage(Vs) 5 - 24 Vdc operational  
 Max 30 Vdc  
 Current supply 8 mA typical  
 Output type Digital switch, open collector  
 Output current Max 25 mA

**Ordering part number**

GS60 01712ECD

**Environmental protection**

**EMI**  
 ISO 11452-2 100 V/m

**ESD**  
 EN 61000-4-2 8 kV

**Mechanical**

Shock 1m drop  
 Vibration 30 Gs

**Climate**

Sealing (electronics) IP67

**Chemical environment**

Liquids (resistance) standard automotive



**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 NICKEL COMPOUNDS, COBALT METAL POWDER, 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](http://www.P65Warnings.ca.gov)

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