



aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding





Electronic Control Systems Sensors

GS50 Speed Sensor





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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.

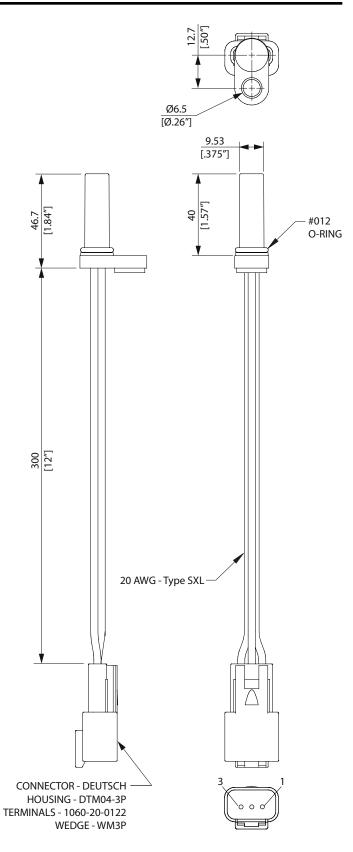
Properties

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.





Catalog HY14-2358/US				
Technical data				

Electronic Control Systems **GS50 Sensors**

General Weight Temperature range Air gap Mechanical characteristics Mounting Connector	23 g -20°C to 125°C 0 - 3 [012"] (target size and material dependent) Flange Deutsch DTM	Environmental protection ESD JEDEC 22-A114 HBM Mechanical Shock Vibration Climate Sealing (electronics)	3 kV 1m drop 30 Gs IP67
Electrical specifications Frequency range Supply Voltage(Vs) Current supply Output type Output current 1) Requires external output resistor.	0 - 15 kHz 3.5 - 24 Vdc operational Max 30 Vdc 3 mA typical Max 6 mA Digital switch, open collector ¹⁾ Max 25 mA	Chemical environment Liquids (resistance)	standard automotive
Ordering part number GS50	01711		



WARNING - USER RESPONSIBILITY

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Electronic Control Systems Sensors

GS60 Speed Sensor





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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

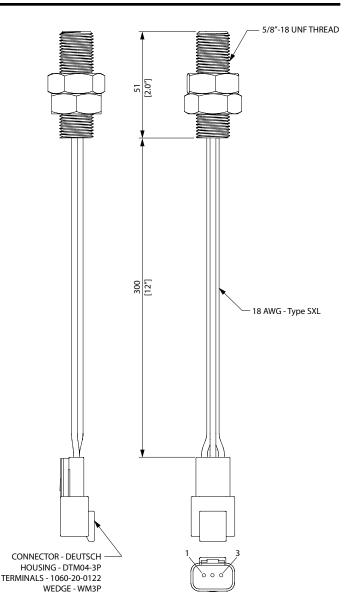
The GS60 has stainless steel construction for sturdiness and corrosion resistance. The heavy-duty mounting nuts for locking the sensor in position are also stainless steel. The sensor uses back-biased, Hall-effect technology for trouble free operation. The digital switch has an internal pull-up resistor 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 barrel 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 provides for easy installation and removal, even in field conditions.





GS60

Electronic Control Systems **GS60 Sensors**

General Weight	94 g	Environmental protection	
Temperature range Air gap	-40°C to 85°C 0 - 5.0 [0197"]	EMI ISO 11452-2	100 V/m
	(target size and material dependent)	ESD EN 61000-4-2	8 kV
Mechanical characteristics		Mechanical	
Mounting	Threaded body	Shock	1m drop
Connector	Deutsch DTM	Vibration	30 Gs
Electrical specifications		Climate	
Frequency range	0 - 10 kHz	Sealing (electronics)	IP67
Supply Voltage(Vs)	5 - 24 Vdc operational	0,	
	Max 30 Vdc	Chemical environment	
Current supply	8 mA typical	Liquids (resistance)	standard automotive
Output type	Digital switch, open collector ¹⁾		
Output current	Max 25 mA		
1) Requires external output resistor.			
Ordering part number			



01712

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