

RS52 Sensors Catalog MSG33-2351/US





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Application

The RS52 rotary sensor belongs to the Parker family of accessories provided to complement electronic control systems. The RS52 is a 0-5V output, non-contact, rotary sensor suitable for a variety of applications. The RS52 sensor has a working range of 90 degrees. The sensor has twelve inch leads and 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

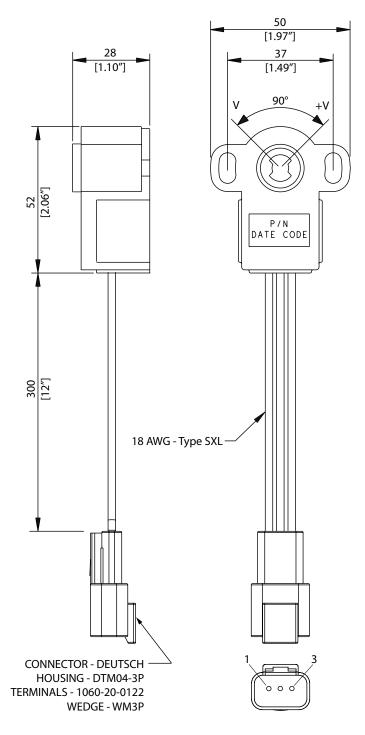
The RS52 has a glass-filled nylon plastic construction for strength and corrosion resistance. The sensor uses noncontact, Hall-effect technology for trouble free operation. The sensor is very robust and able to withstand rugged applications.

Electromagnetic immunity

The design of the RS52 has a high level of EMI protection. The sensor is also over-voltage and reverse polarity protected.

Installation

The RS52 is well designed for the mobile hydraulics industry. The 3 pin connector is a sealed Deutsch DTM type designed for automotive use. This connector, combined with potted electronics, gives the sensor IP66 protection for exposed outdoor applications. The mounting holes are slotted for easy alignment. These features provide for easy installation and removal, even in field conditions.





General		Environmental protection		
Weight Temperature range Operating life Total error (<= 80°) ¹⁾	72 g -40°C to 125°C 10 million cycles Max 3.0 % FS	EMI ISO 11452-2 ISO 11452-4	150 V/m 100 mA	
Hysteresis	1.0% when no shaft end float is allowed	ESD EN 61000-4-2	7 kV	
 Total accuracy includes non- linearity, hysteresis, repeatability and temperature effects. 		Mechanical Shock	1m drop	
Mechanical characteristics		Vibration	1m drop 30 Gs	
Angular travel Connector	110° Deutsch DTM	Climate Sealing (electronics)	IP66	
Electrical specifications Working angle Supply Voltage(Vs) Current supply Output at FS ²⁾ Zero output ²⁾ Output current	90° 5.0+/-10% Vdc Max 12.0 mA 4.5 V 0.5 V Max. 1.0 mA	Chemical environment Liquids (resistance)	standard automotive	
2) The output is ratiometric to supply voltage (Vs)				

Ordering	part	number
RS52		

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🔥 WARNING - USER RESPONSIBILITY

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This product can expose you to chemicals including CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE), LEAD AND LEAD COMPOUNDS (PB), 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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