



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











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Application

The RS70 rotary sensor belongs to the Parker family of accessories provided to complement electronic control systems. The RS70 is a 0-5V, dual output, non-contact rotary sensor for mobile hydraulic applications. The sensor comes in 2 versions with different working angles. 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

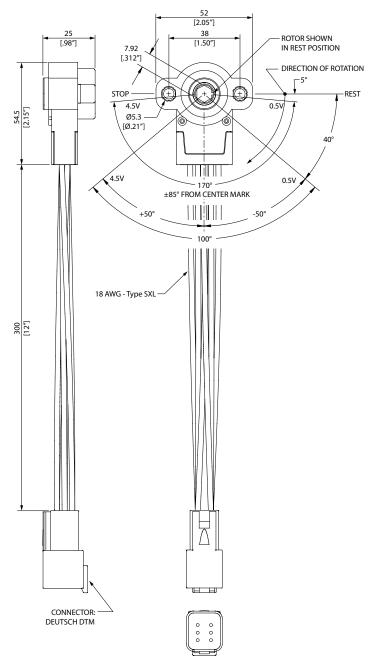
The RS70 has a glass-filled nylon plastic construction for sturdiness and corrosion resistance. The mounting holes are reinforced with brass inserts for added strength. The sensor uses non-contact, Hall-effect technology for trouble free operation. The second output makes this sensor very reliable and adds redundancy. The sensor is very robust and able to withstand rugged applications.

Electromagnetic immunity

The design of the RS70 has a high level of EMI protection.

Installation

The RS70 is well designed for the mobile hydraulics industry. The 6 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 extra large for easy alignment. Two roll pins may be used to provide accurate positioning. These features provide for easy installation and removal, even in field conditions.







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RS70 Sensors

General		Environmental protection	
Weight Temperature range Operating life	118 g -40°C to 125°C 10 million cycles	EMI ISO 11452-2	150 V/m
Total error (≤ 170°)¹) Hysteresis	Max 3.0 % FS 1.0% when no shaft end float is allowed	ESD EN 61000-4-2	7 kV
 Total accuracy includes non- linearity, hys repeatability and temperature effects. 	teresis,	Mechanical Shock Vibration	1m drop 30 Gs
Mechanical characteristics Angular travel Connector	180° (both versions) Deutsch DTM	Climate Sealing (electronics)	IP66
Electrical specifications Working angle ²⁾ Supply Voltage(Vs) Current supply Output at FS ³⁾ Zero output ³⁾ Output current	170° or 100° 5.0+/-10% Vdc Max 24.0 mA 4.5 V 0.5 V Max. 1.0 mA (each output)	Chemical environment Liquids (resistance)	standard automotive
 Depending on part number The output is ratiometric to supply voltage 	ə (Vs)		
Ordering part number	01707		

RS70 (170°)	01707
RS70 (100°)	141453

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.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.
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OFFER OF SALE

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