



SCP Compact Pressure Sensors

Catalog MSG33-2379/US



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Application

The SCP pressure sensor belongs to the Parker family of accessories provided to complement electronic control systems. The SCP sensor family is a range of 0-5 V pressure transmitters for mobile hydraulic applications.

These transmitters are available in three standard pressure ranges; 35 bar (507 psi), 250 bar (3625 psi) and 500 bar (7250 psi). The sensors feature compact construction, high linearity and excellent electromagnetic interference resistance.

Properties

Reliability

The SCP has stainless steel construction for strength. The sensor cells use thin film technology with no internal o-rings or fluid. The high pressure capability makes the sensor very robust and able to withstand heavy vibrations.

Electromagnetic immunity

The design of the SCP separates the sensor electronics from the connector. This ensures a high level of EMI protection.

Installation

The interface type of the SCP is a SAE 6 (9/16"-18UNF) thread with o-ring seal. The connector is a sealed, Deutsch DT type and is integrated into the sensor body.

The sealed connector gives the sensor protection for exposed outdoor applications. The SCP is easy to install and remove, even in field conditions.

General

Weight	50 g
Operating temperature	-40 °C to 125 °C
Storage temperature	-40 °C to 125 °C
Pressure range	see code in table below
Over pressure	
code "035"	Max 70 bar
code "250"	Max 500 bar
code "500"	Max 1000 bar
Burst pressure	
code "035"	Min 140 bar
code "250"	Min 1000 bar
code "500"	Min 2000 bar

Accuracy

Total error (-40°C to 125°C)	Max 2.5 % FS
Total error (-25°C to 100°C)	Max 1.5 % FS
Repeatability	Max 0.2 %

Electrical specifications

Output at FS ¹⁾	4.5 V (90%)
Zero output ¹⁾	0.5 V (10%)
Supply Voltage (Vs)	5.0 Vdc
Load resistor	Min 10 kΩ
Current supply	Max 6 mA
Response time	Max 1 msec

1) The output is ratiometric (code "R") to supply voltage, Vs.

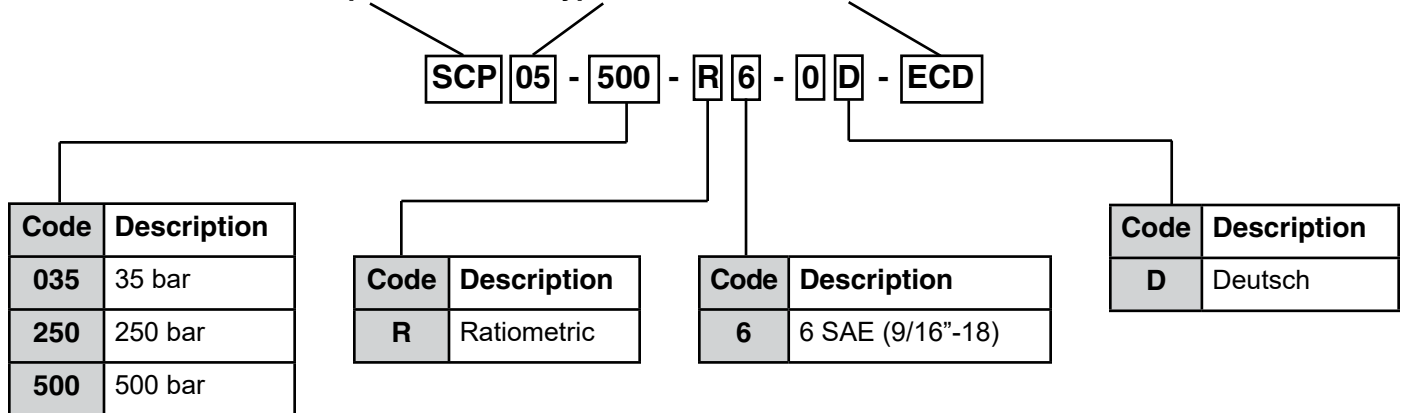
Threaded interface

code "6"	SAE 6, 9/16"-18 UNF
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Connector

Integral to sensor	see code in table below
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Model code: Sensor, Compact Pressure, Type 05, Electronic Controls Division



Environmental protection

EMI

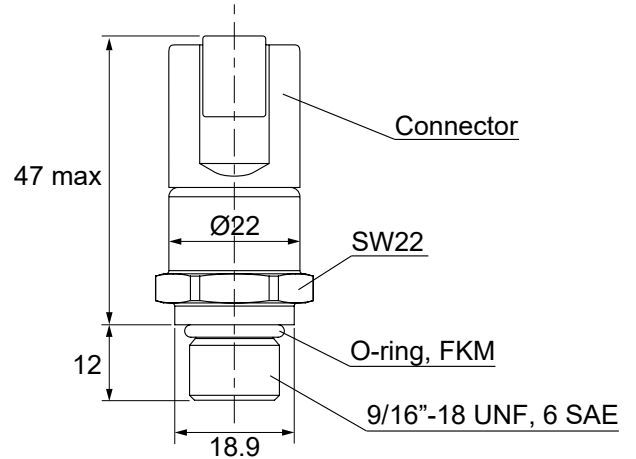
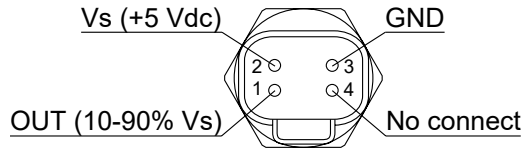
EN 61000-6-2 (interference resistance)
 EN 61000-6-3 (interference emissions)

Mechanical environment

IEC 60068-2-6 Fh (vibration)
 IEC 60068-2-27 Es (shock)

Climate environment

EN/IEC 60529 (IP67)



units = mm

2) Other configurations possible, consult factory.



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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WARNING - California Proposition 65

This product can expose you to chemicals including NICKEL COMPOUNDS which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

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