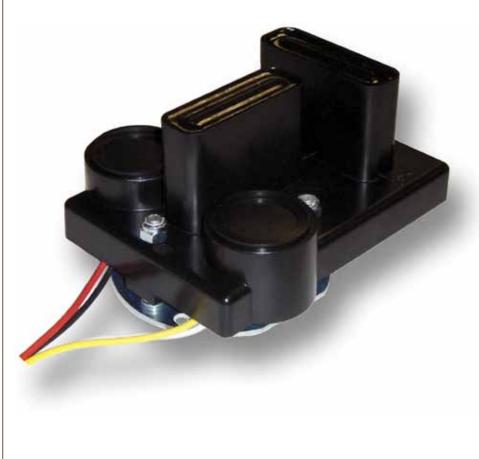




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# ATS90 Sensors

Catalog HY33-2362/US





ENGINEERING YOUR SUCCESS.



# **Application**

The ATS90 sensor belongs to the Parker family of accessories provided to complement electronic control systems. The ATS90 is a non-contact, Hall effect angle/tilt sensor for mobile hydraulic applications. The ATS90 will sense angular movement in two axes and output a ratiometric 0-5 VDC signal for each axis based on position. 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

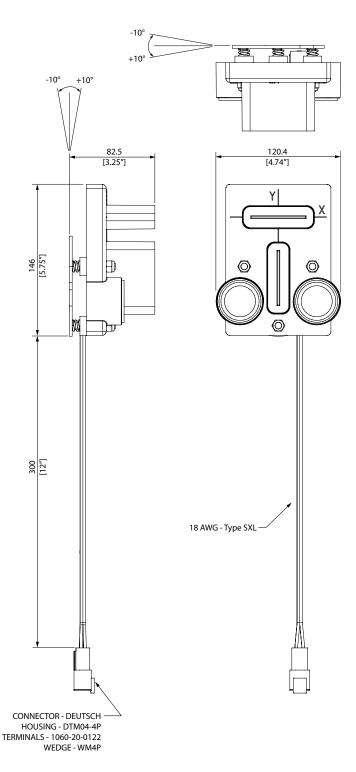
The ATS90 has a tough ABS plastic construction for strength and corrosion resistance. The sensor uses noncontact, Hall effect technology for trouble free operation. The sensor is very robust and able to withstand rugged applications.

### **Electromagnetic immunity**

The design of the ATS90 has a high level of EMI protection.

#### Installation

The ATS90 is well designed for the mobile hydraulics industry. The 4 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. Simply attach the 3 point spring loaded bracket to a level surface. The adjustable mount makes it easy to install and setup. These features provide for easy installation and removal, even in field conditions.







General

Weight 1.23 kg

Temperature range -35°C to 85°C
Operating life 10 million cycles

Working angle ±10° each axis

Hysteresis <1.0% Linearity ±0.5% FS

**Mechanical characteristics** 

Mounting 3 point bracket Connector Deutsch DTM

**Electrical characteristics** 

Supply voltage 12 VDC nominal
Supply current Max 100 mA
Output range 0.5 - 4.5 VDC
Output current Max 5 mA each output

Ordering part number

ATS90 01716

**Environmental protection** 

EMI

ISO 11452-2 150 V/m

**ESD** 

EN 61000-4-2 3 kV

Mechanical

Shock 1m drop Vibration 10 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.
- 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.
- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.



#### OFFER OF SALE

Please contact your Parker representative for a detailed "Offer of Sale".



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