



ATS50 Sensors

Catalog MSG33-2363/US



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Application

The ATS50 sensor belongs to the Parker family of accessories provided to complement electronic control systems. The ATS50 is a non-contact, Hall effect angle/tilt sensor for mobile hydraulic applications. The ATS50 will sense angular movement in one axis and output a ratiometric 0-5 VDC signal. 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

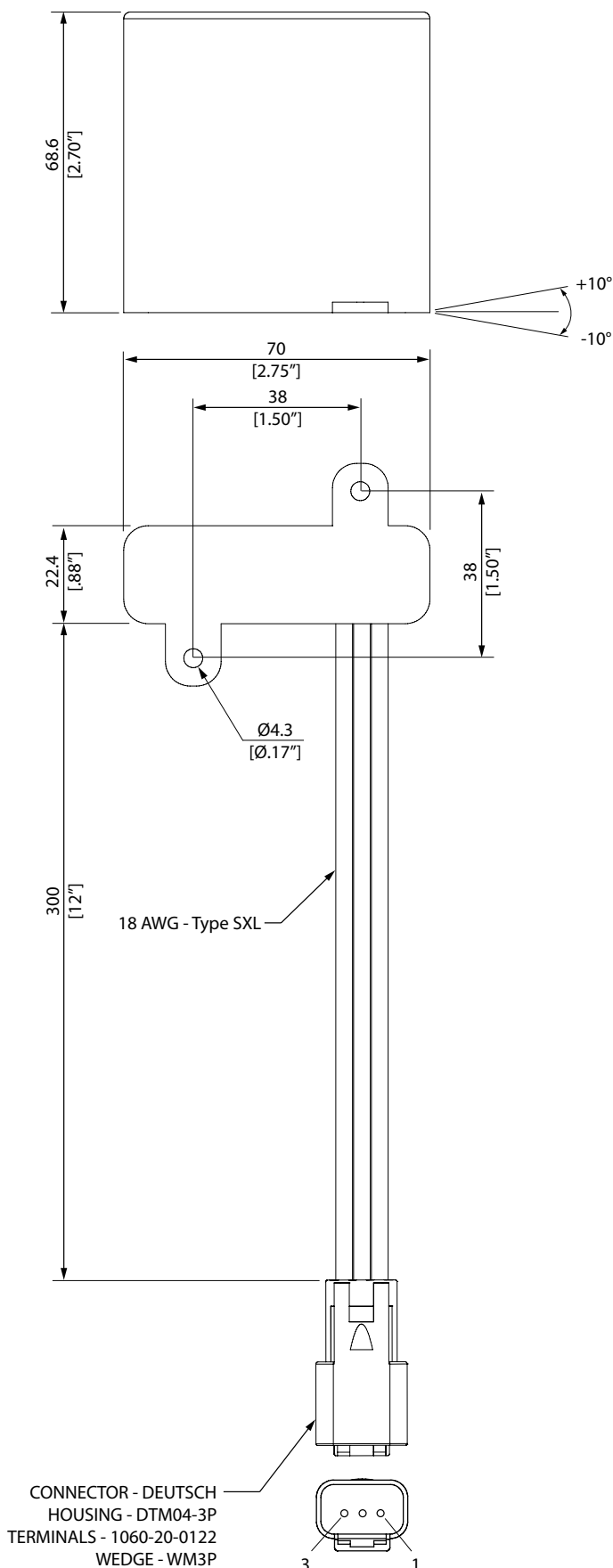
The ATS50 has a tough ABS plastic construction for strength and corrosion resistance. The sensor uses non-contact, Hall effect technology for trouble free operation. The sensor is very robust and able to withstand rugged applications.

Electromagnetic immunity

The design of the ATS50 has a high level of EMI protection.

Installation

The ATS50 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 IP67 protection for exposed outdoor applications. The mounting holes are extra large for easy alignment. These features provide for easy installation and removal, even in field conditions.



General

Weight	114 g
Temperature range	-35°C to 85°C
Operating life	10 million cycles
Working angle	±10°
Hysteresis	<0.5%
Linearity	±0.6% FS

Mechanical characteristics

Mounting	Flange
Connector	Deutsch DTM

Electrical characteristics

Supply voltage	5 VDC
Supply current	Max 12 mA
Output range	0.5 - 4.5 VDC
Output current	Max 2 mA

Ordering part number

ATS50	01759ECD
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Environmental protection**EMI**

ISO 11452-2	150 V/m
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ESD

EN 61000-4-2	3 kV
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Mechanical

Shock	1m drop
Vibration	10 Gs

Climate

Sealing (electronics)	IP67
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Chemical environment

Liquids (resistance)	standard automotive
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**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.
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This product can expose you to chemicals including STYRENE, NICKEL COMPOUNDS, EPICHLOROHYDRIN which is known to the State of California to cause cancer and EPICHLOROHYDRIN which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov

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