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Electronic Control Systems Sensors

ACC50 Acceleration Sensor



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Application

The ACC50 acceleration sensor belongs to the Parker family of accessories provided to complement electronic control systems. The ACC50 is a 0-5 Vdc output accelerometer and has a variety of uses for mobile hydraulic applications. The ACC50 can be used to sense vibration, impact, tilt and motion of the equipment where it is mounted. 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

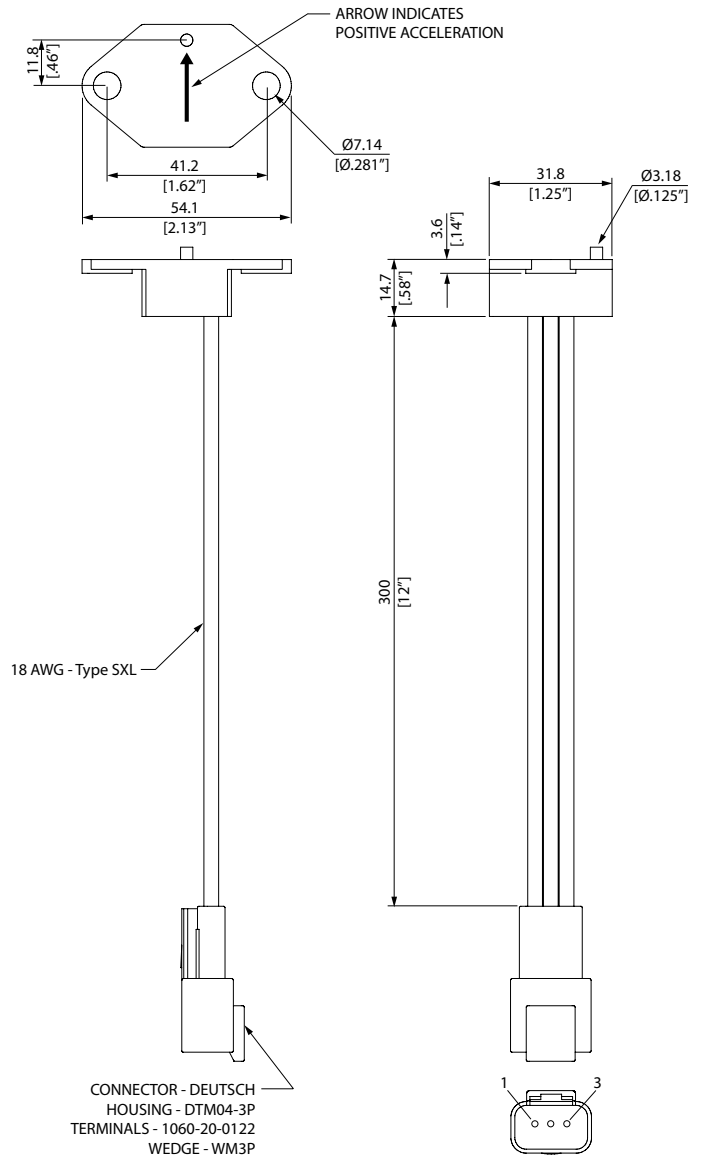
The ACC50 has a glass-filled nylon plastic construction for sturdiness and corrosion resistance. The sensor uses micro-machined technology for trouble free operation. The sensor is very robust and able to withstand rugged applications.

Electromagnetic immunity

The design of the ACC50 has a high level of EMI protection.

Installation

The ACC50 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 large and a locating pin simplifies alignment. These features provide for easy installation and removal, even in field conditions.



General

Weight 62 g
 Temperature range -40°C to 125°C
 Operating life 1 billion cycles
 (1kHz@10G peak)
 Measuring range ±1.5 G
 Total error ±3.5% @ 0G
 (temperature+sensitivity) ±5.2% @ ±1G
 ±6.0% @ ±1.5G

Mechanical characteristics

Mounting plane Vertical
 Connector Deutsch DTM

Electrical specifications

Zero point 2.5 Vdc
 Supply Voltage(Vs) 5.0 Vdc
 Current supply Max 10 mA
 Output range 0.5 - 4.5 Vdc

Ordering part number

ACC50 01767

Environmental protection

EMI

ISO 11452-2 100 V/m

ESD

EN 61000-4-2 7 kV

Mechanical

Shock 50 Gs
 Vibration 30 Gs

Climate

Sealing (electronics) IP67

Chemical environment

Liquids (resistance) standard automotive



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Electronic Control Systems Sensors

ATS90 Tilt Sensor



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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

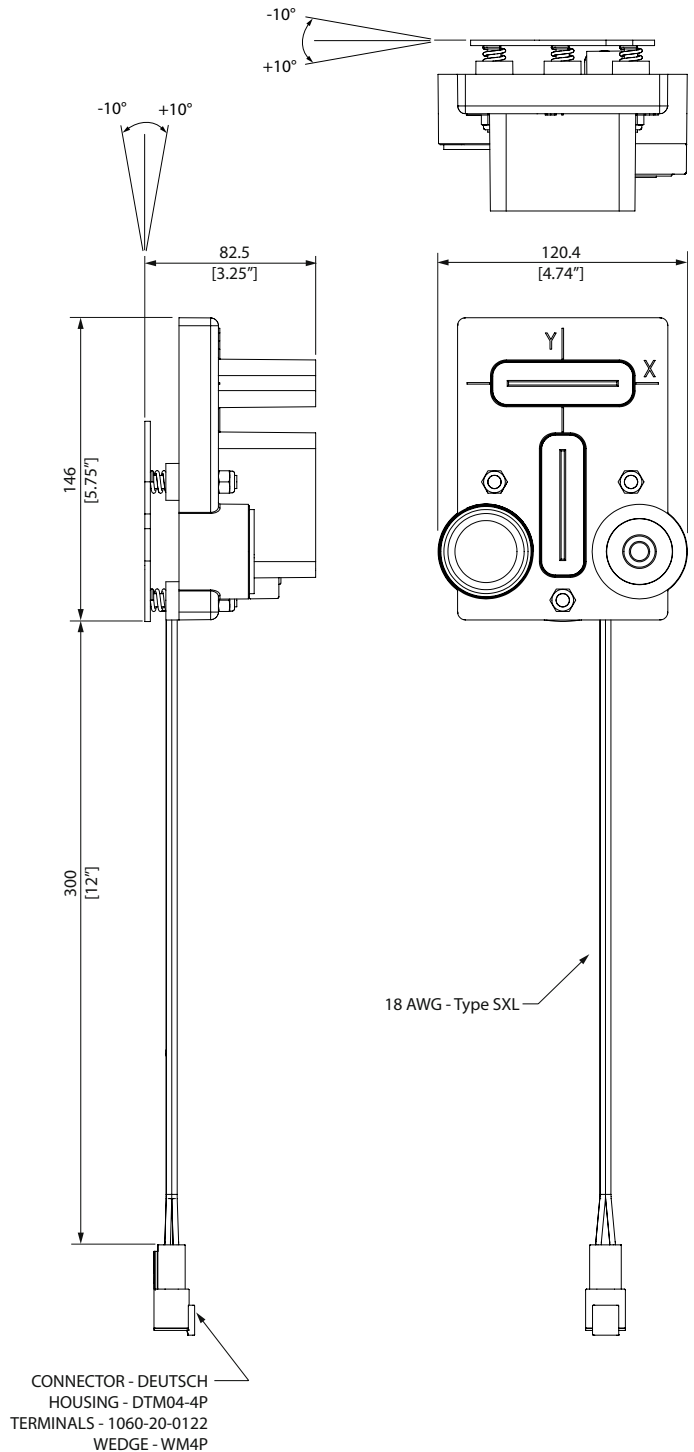
The ATS90 has a tough ABS plastic construction for strength and corrosion resistance. The sensor uses non-contact, Hall effect technology for trouble free operation. The sensor is very robust and able to withstand rugged applications.

Electromagnetic immunity

The design of the 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 <0.5%
 Linearity ±0.3% 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



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Electronic Control Systems Sensors

ATS50 Tilt Sensor



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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

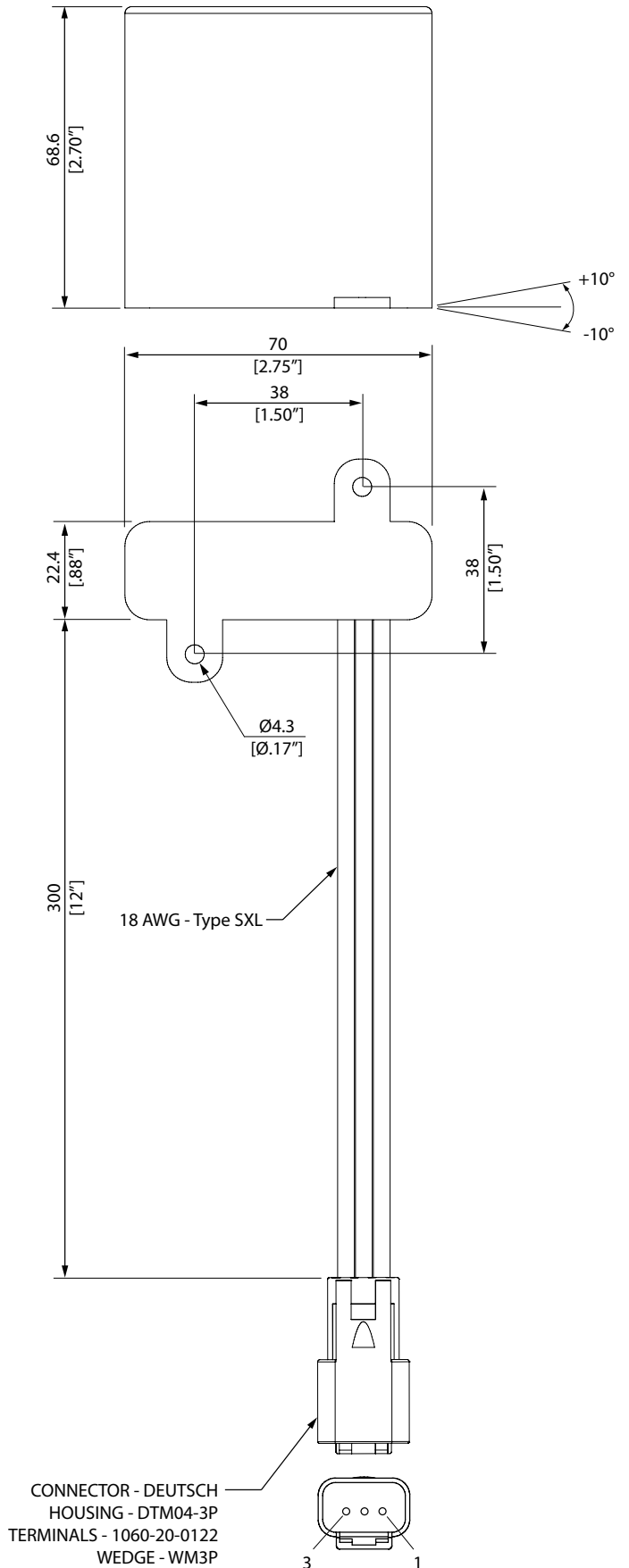
The ATS50 has a tough ABS plastic construction for strength and corrosion resistance. The sensor uses non-contact, Hall effect technology for trouble free operation. The sensor is very robust and able to withstand rugged applications.

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 01759

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



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Electronic Control Systems Sensors

RM50 Rolling Magnet Sensor



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Application

The RM50 sensor belongs to the Parker family of accessories provided to complement electronic control systems. The RM50 is a tilt switch for mobile hydraulic applications and will sense angular movement in one axis. 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 and ease of installation.

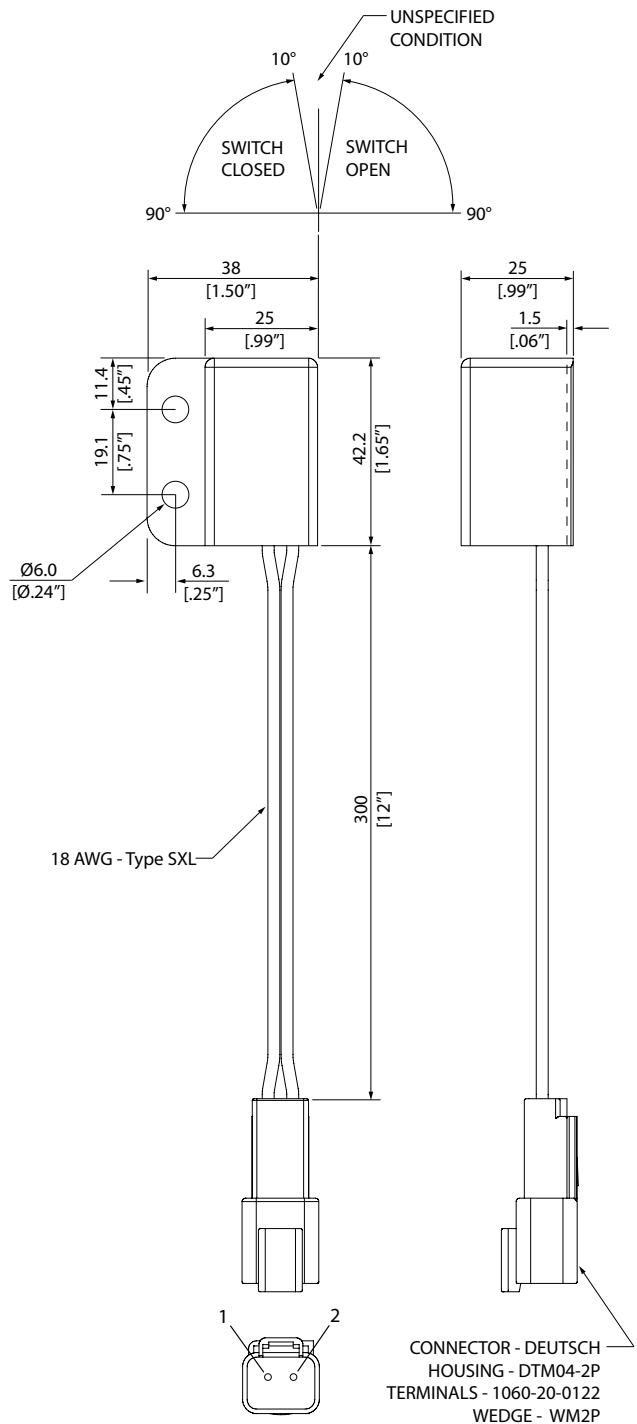
Properties

Reliability

The RM50 has a glass-filled nylon plastic construction for strength and corrosion resistance. The sensor uses reed switch technology for trouble free operation. The sensor is very robust and able to withstand rugged applications.

Installation

The RM50 is well designed for the mobile hydraulics industry. The 2 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 large and a locating pin simplifies alignment. These features provide for easy installation and removal, even in field conditions.



General

Weight 48 g
 Temperature range -40°C to 105°C
 Operating life 30 million cycles
 Hysteresis ±10°

Mechanical characteristics

Switch type Reed (magnet)
 Connector Deutsch DTM

Electrical characteristics

Voltage Max 100 VDC
 Current Max 1 A
 Power Max 20 w

Ordering part number

RM50 01715

Environmental protection

Mechanical

Shock 1m drop
 Vibration 10 Gs

Climate

Sealing (electronics) IP67

Chemical environment

Liquids (resistance) standard automotive



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