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Electronic Control Systems Sensors

FP2000 Ferrous Proximity Sensor



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Application

The FP2000 sensor belongs to the Parker family of accessories provided to complement electronic control systems. The FP2000 is a ferrous proximity sensor for mobile hydraulic applications and will sense ferrous objects. 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 and ease of installation.

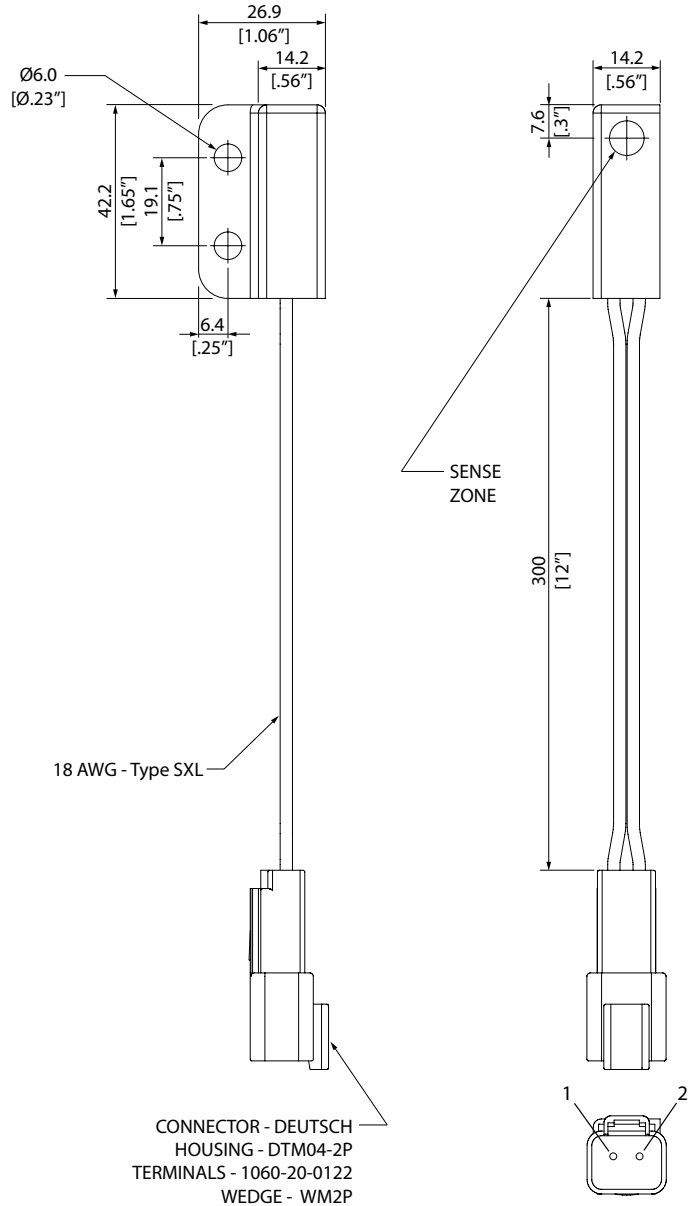
Properties

Reliability

The FP2000 has a glass-filled nylon plastic construction for strength and corrosion resistance. The sensor uses non-contact technology, through the use of an internal reed switch, for trouble free operation. The sensor is very robust and able to withstand rugged applications.

Installation

The FP2000 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 excellent 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 24 g
Temperature range -40°C to 105°C
Operating life 10 million cycles
(at logic load)
Airgap “make” (signal high) Min 5.1 mm [0.2”]
Airgap “break” (signal low) Max 11.4 mm [0.45”]

Mechanical characteristics

Switch type Normally open
Connector Deutsch DTM

Electrical characteristics

Contact resistance (initial) Max 200 mΩ
Breakdown voltage Min 200 VDC
Switching voltage Max 100 VAC/VDC
Switching current DC Max 300 mA
Bounce time Max 0.4 ms

Ordering part number

FP2000 01695

Environmental protection

Mechanical

Shock 1m drop
Vibration 30 Gs

Climate

Sealing IP6K9K

Chemical environment

Liquids (resistance) standard automotive



WARNING - USER RESPONSIBILITY

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Electronic Control Systems Sensors

FP3000 Ferrous Proximity Sensor



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Application

The FP3000 sensor belongs to the Parker family of accessories provided to complement electronic control systems. The FP3000 is a ferrous proximity sensor for mobile hydraulic applications and will sense ferrous objects. 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 and ease of installation.

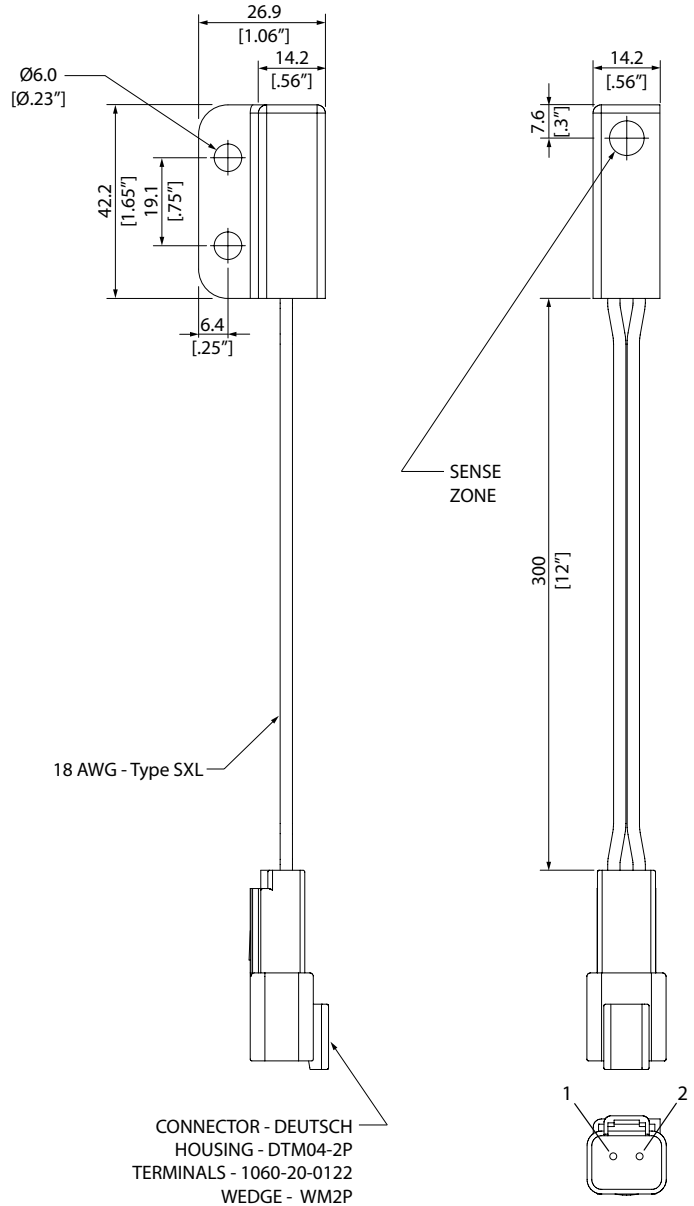
Properties

Reliability

The FP3000 has a glass-filled nylon plastic construction for strength and corrosion resistance. The sensor uses non-contact technology, through the use of an internal reed switch, for trouble free operation. The sensor is very robust and able to withstand rugged applications.

Installation

The FP3000 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 excellent 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 26 g
Temperature range -40°C to 105°C
Operating life 10 million cycles
(at logic load)
Airgap “make” (signal high) Min 10.2 mm [0.4”]
Airgap “break” (signal low) Max 17.8 mm [0.7”]

Mechanical characteristics

Switch type Normally open
Connector Deutsch DTM

Electrical characteristics

Contact resistance (initial) Max 200 mΩ
Breakdown voltage Min 200 VDC
Switching voltage Max 100 VAC/VDC
Switching current DC Max 300 mA
Bounce time Max 0.4 ms

Ordering part number

FP3000 01699

Environmental protection

Mechanical

Shock 1m drop
Vibration 30 Gs

Climate

Sealing IP6K9K

Chemical environment

Liquids (resistance) standard automotive



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Electronic Control Systems Sensors

FP4000 Ferrous Proximity Sensor



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Application

The FP4000 sensor belongs to the Parker family of accessories provided to complement electronic control systems. The FP4000 is a ferrous proximity sensor with increased power handling capability for mobile hydraulic applications and will sense ferrous objects. 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 and ease of installation.

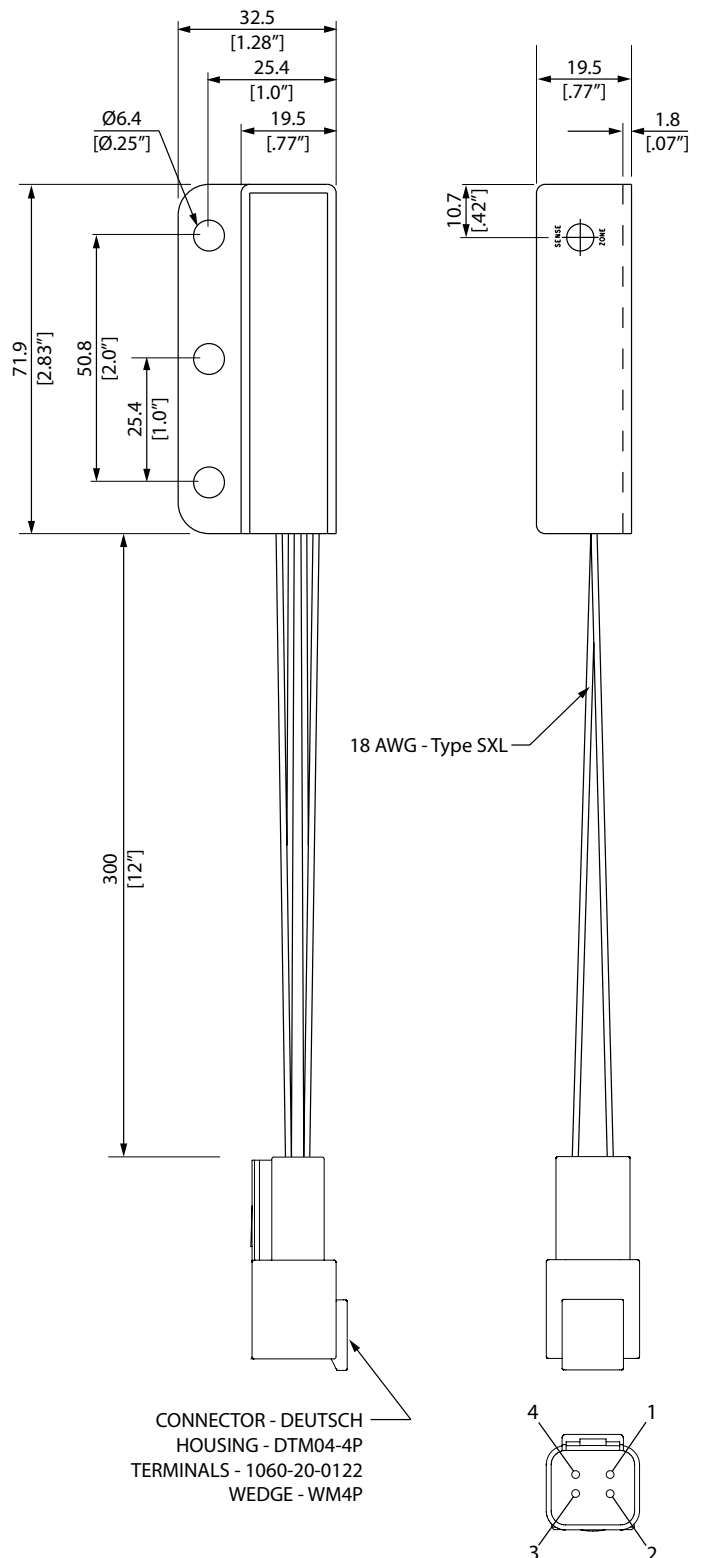
Properties

Reliability

The FP4000 has a glass-filled nylon plastic construction for strength and corrosion resistance. The sensor uses non-contact technology, through the use of an internal reed switch, for trouble free operation. The sensor is very robust and able to withstand rugged applications.

Installation

The FP4000 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 excellent 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.



Technical data

FP4000 Sensors

General

Weight	58 g
Temperature range	-40°C to 85°C
Voltage supply (Vs)	12 VDC
Operating life	50 million cycles
Airgap "make" (signal high)	Min 6.4 mm [0.25"]
Airgap "break" (signal low)	Max 7.2 mm [0.28"]

Mechanical characteristics

Switch type	Normally Open/ Normally Closed
Connector	Deutsch DTM

Electrical characteristics

Contact resistance (initial)	Max 30 mΩ
Breakdown voltage	2000 VAC
Switching voltage max	12 VDC
Switching current DC	Max 5 A
Bounce time	Max 0.3 ms

Ordering part number

FP4000	01703
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Environmental protection

Mechanical

Shock	1m drop
Vibration	30 Gs

Climate

Sealing	IP6K9K
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Chemical environment

Liquids (resistance)	standard automotive
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