



# FP3000 Sensors

Catalog MSG33-2353/US



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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 is available with the sense zone on the side (site A) or on the top (site B) of the case. The standard 'site A' version has 'normally open' contacts and twelve inch leads with an attached Deutsch DTM connector. Other versions are available with 'site B' sense zone, 'normally closed' contacts, flying leads or other connector type. To make the sensor suitable for mobile equipment, we have focused upon properties such as reliability and ease of installation.

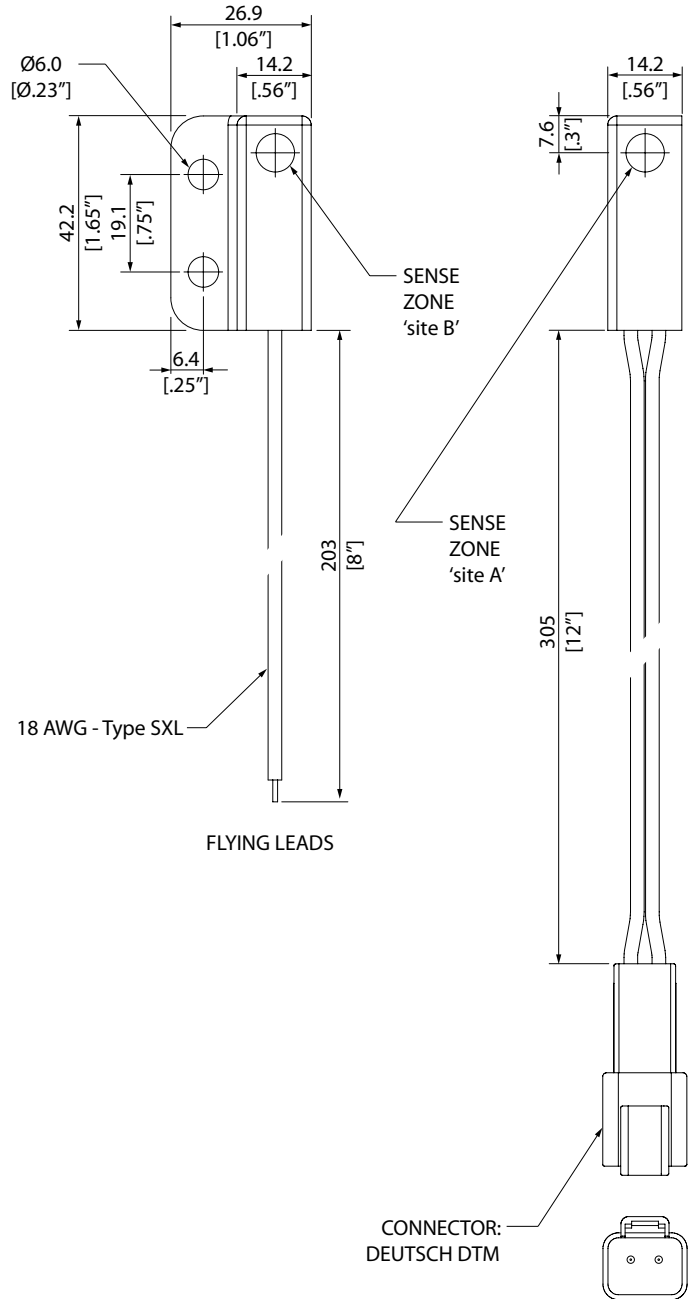
**Properties**

**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 connector on the standard version is a sealed Deutsch type designed for automotive use. A sealed connector combined with potted electronics gives the sensor excellent protection for exposed outdoor applications. There are additional FP3000 models with flying leads or other connector types. 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”]

**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

**Mechanical characteristics**

Switch type <sup>1</sup>	Normally open Normally closed
Connector <sup>1</sup>	Deutsch DTM Flying leads

1) Depending on configuration

**Ordering part numbers**

FP3000 NO site A DTM04	01699ECD
FP3000 NO site A 8”leads	00989ECD
FP3000 NO site B 8”leads	01013ECD
FP3000 NC site A 8”leads	01062ECD
FP3000 NC site B 8”leads	01077ECD

**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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**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 CARBON BLACK (AIRBORNE, UNBOUND PARTICLES OF RESPIRABLE SIZE), STYRENE which is known to the State of California to cause cancer.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

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