



# 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.

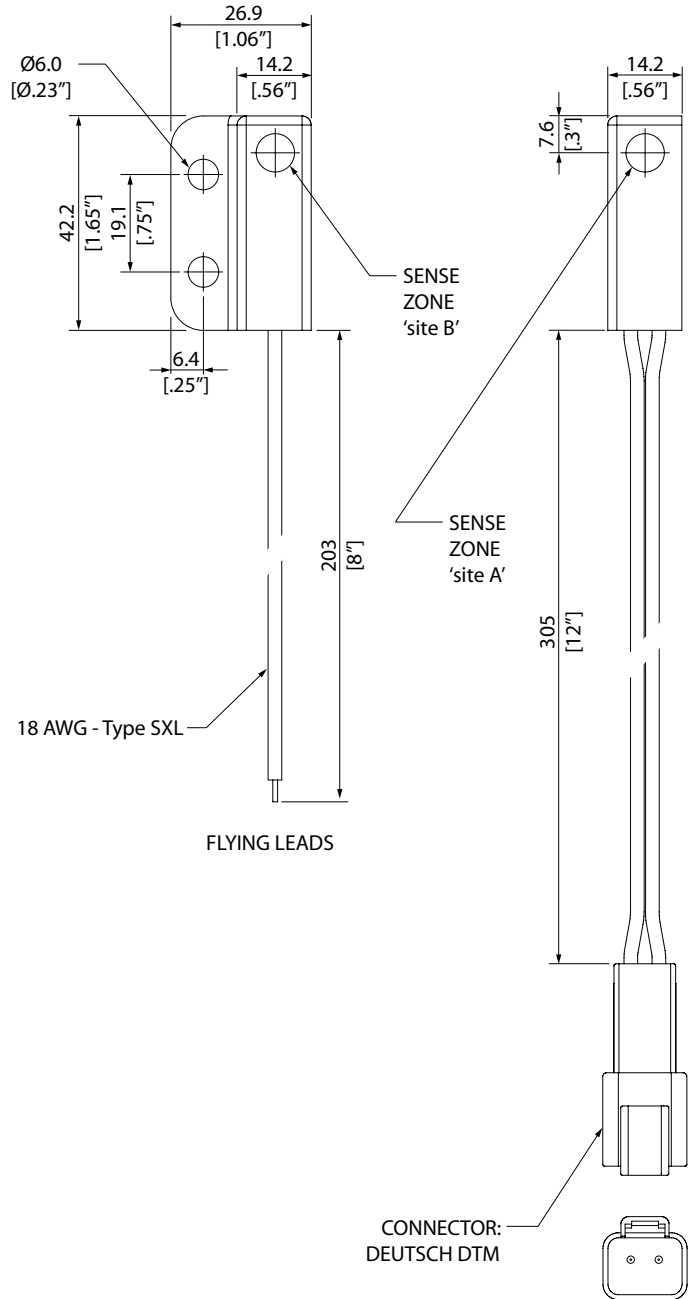
**Properties**

**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 mW  
 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

**Ordering part numbers**

FP3000 NO site A DTM04 01699ECD  
 FP3000 NC site A 8”leads 01062ECD

**Environmental protection**

**Mechanical**

Shock 1m drop  
 Vibration 30 Gs

**Climate**

Sealing IP6K9K

**Chemical environment**

Liquids (resistance) standard automotive

1) Depending on configuration



**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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**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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