

# PS65 Proximity Sensors

Catalog MSG33-2376/US



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**Application**

The PS65 sensor belongs to the Parker family of accessories provided to complement electronic control systems. The PS65 is a magnetic proximity sensor for mobile hydraulic applications and will sense magnetic objects. The sensor may be combined with our complementary magnet target. The sensor has 6 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**

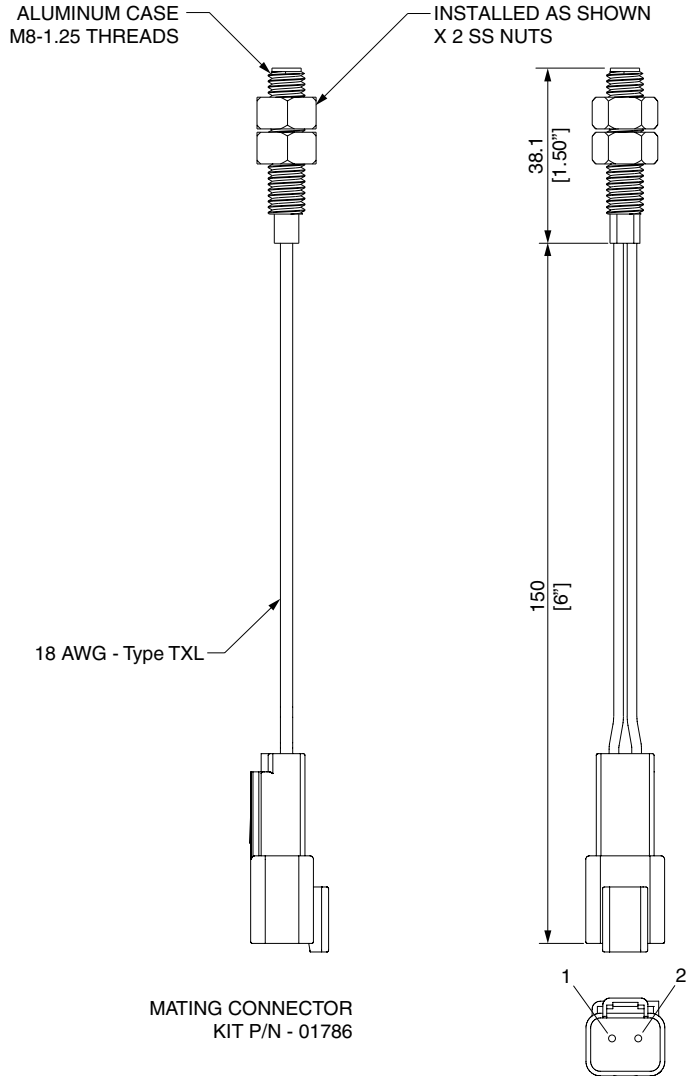
**Reliability**

The PS65 has a threaded aluminum construction for strength and corrosion resistance. The sensor uses non-contact technology, through the use of an internal reed switch, for trouble free operation. Switch activation is a function of the strength of the actuator (magnet), how close it is to other ferrous objects, and the air gap distance. The sensor is very robust and able to withstand rugged applications.

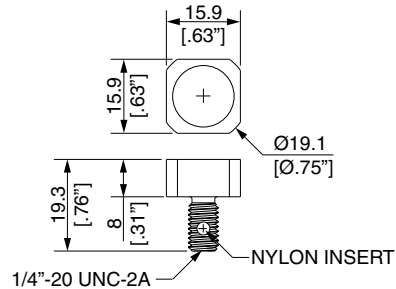
**Installation**

The PS65 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 threaded body and included stainless steel jam nuts make alignment simple. These features provide for easy installation and removal, even in field conditions.

**PS65 dimensions**



**Complementary magnetic target dimensions**



**General**

Weight 23 g  
 Temperature range -40°C to 105°C  
 Operating life 10 million cycles  
 Air gap Max 1/2" (using magnet target listed below)

**Mechanical characteristics**

Switch type Normally closed  
 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**

PS65 154482ECD  
 Magnet target 01143ECD

**Environmental protection**

**Mechanical**

Shock 1m drop  
 Vibration 30 Gs

**Climate**

Sealing IP6K9K

**Chemical environment**

Liquids (resistance) standard automotive



**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.**

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**WARNING - California Proposition 65**

This product can expose you to chemicals including CHROMIUM (HEXAVALENT COMPOUNDS), 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](http://www.P65Warnings.ca.gov)

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