

TECHNICAL DATA

S292 Oil Level Switch – Capacitance Type with Complementary Voltage Output.

FOZMULA
INNOVATION IN SENSORS



The **S292** is an active device designed to give an alarm signal if liquid falls below, or rises above, a preset level. It can be specified with a delay to eliminate false alarms due to turbulence.

Containing a factory programmable microprocessor, the switch provides a complementary voltage output on two pins.

Its small footprint with limited intrusion into the tank means a reduced risk of damage and a wide range of customer specifiable options make it suitable for most applications.

The switch is designed to operate in both earthed metal and isolated plastic tanks. For high accuracy the S292 is ideally mounted horizontally at the point where an alarm or control signal is required. However, the switch can be mounted vertically – contact Fozmula with your application requirements

SPECIFICATION

Liquid types: Oils including Engine Oil, Hydraulic Oil and Transmission Oil.

Electrical rating

Supply voltage: 5±0.25 VDC.
Supply current: 5 mA + source output.
Alarm delay time: 0 to 25 s rising or falling (factory set).
Connection: 4 way Delphi Packard Metri-Pack 150 series connector.
Power up delay: 0 to 10 s (factory set).
Power up state: 'In Liquid' or 'Out of Liquid' (factory set).
Output type: Voltage (Complementary).

Output pin:	Pin A.	Pin D.
Output state in liquid*:	4±0.25 VDC.	↔ 0.5±0.25 VDC.
Output state in air*:	0.5±0.25 VDC.	↔ 4±0.25 VDC.
Output current:	10 mA maximum.	10 mA maximum.

Connections: See diagram below.

*Outputs are factory selectable; opposite states and alternative values from 0.5-4.5 VDC are available on request.

Environmental Ratings

Ingress: IP67 (with mating connector fitted).
Max. pressure: 5.0 Bar (72 psi)
Temp. range: -40 °C to +125 °C
Weight: 70 g typical (dependent on thread size)
EMC: ISO13766:2006

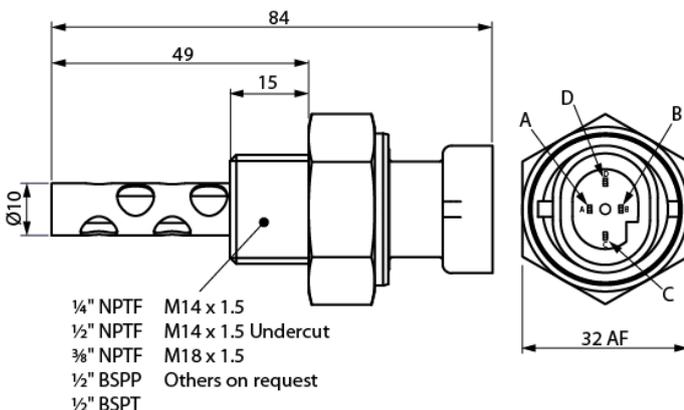
Construction

Body: Brass.
Probe: PTFE.
Terminals: Brass, Tin Plated.
Seals: FVMQ.
Connector: PA66 30% Glass Filled Nylon.

Vibration (15.3 Grms)

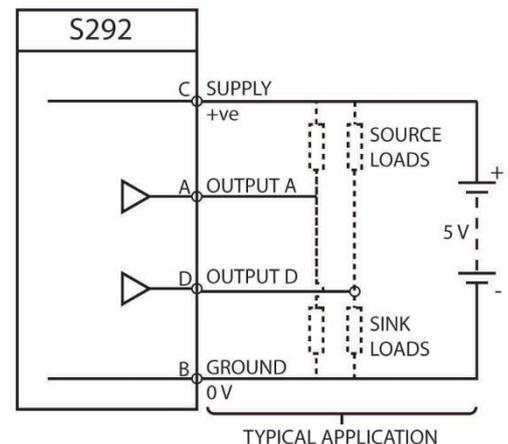
3 orthogonal planes for 3 hours per plane
 Testing performed in accordance with BSEN 60068-2-64:1993

Drop: 1 m to concrete surface.



Recommended Installation Tightening Torques:

Thread	Torque (Nm)	Thread	Torque (Nm)
¼" NPTF	9 Nm	M14x1.5	10 Nm
¾" NPTF	11 Nm	M18x1.5	15 Nm
½" NPTF	20 Nm		
½" BSPP	15 Nm		
½" BSPT	20 Nm		



Optional accessories

C/K1: Packard Metri-Pack 150 series mating connector kit to suit harness wire cross sectional area of 0.8 to 1.0 mm² and sleeve Ø1.60 to 2.15 mm.

Hermes Close | Tachbrook Park | Warwick | CV34 6UF | United Kingdom
 Tel: +44 (0)1926 466700 | Fax: +44 (0)1926 450473 | sales@fozmula.com

www.fozmula.com