# **TECHNICAL DATA**

S288 Oil Level Switch – **Capacitance** Type



INNOVATION IN SENSORS



The S288 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. A flying lead enables customers to specify a suitable connector of their choice.

Containing a factory programmable microprocessor, the switch offers sink to ground and / or source voltage output. 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.

For optimum accuracy, the S288 should be 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: Supply voltage:

Supply current:

Max. load current:

Alarm delay time:

Power up delay:

Power up state:

Connection:

Output type: Output state:

Mineral oils, typically used in engines or hydraulic actuators, compatible with brass, PTFE and FVMQ. **Electrical rating** 

9-36 VDC.

7 mA + source output. 1.0 A (sink) or 20 mA (source). 0 to 25 s rising or falling (factory set). Flying lead + customer specified connector. 0 to 10 s (factory set). 'In Liquid' or 'Out of Liquid' (factory set). Sink (open collector) and/or Source (supply voltage). Sink Open / Closed in liquid (factory set). Source On / Off in liquid (factory set).

Body: Probe: Terminals: Seals: Flying lead entry:

Flying lead cables:

Construction

Brass. PTFE. Brass. Tin Plated. FVMQ. PA66 30% Glass Filled Nylon. GXL type cable 18 AWG

Connections:

### **Environmental Ratings**

Ingress: Max. pressure: Temp. range: Weight: EMC:

See diagram below. IP67 (with mating connector fitted). 5.0 Bar (72 psi) -40 °C to +125 °C 70 g typical (dependent on thread size) ISO13766:2006

## 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.



M14x1.5

M18x1.5

Recommended Installation Tightening Torques:

9 Nm

11 Nm

20 Nm

15 Nm

20 Nm

S288 Ignition switch SUPPLY +ve .OAD SOURCE OUTPUT SINK OUTPUT GROUND 0 V

TYPICAL APPLICATION

#### **Optional accessories**

This switch can be supplied with any suitable mating plug or receptacle to suit customer applications.

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10 Nm

15 Nm

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#### E. & O. E. © Fozmula Limited.

1/4" NPTF

3%" NPTF

1/2" NPTF

1/2" BSPP

1/2" BSPT

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