

# S288 Oil Level Switch – Capacitance Type



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 Rochester Sensors UK Limited with your application requirements.

PTFF.

FVMQ.

Brass, Tin Plated.

PA66 30% Glass Filled Nylon.

GXL type cable 18 AWG

## **SPECIFICATION**

Liquid types:

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

Body:

Probe:

Seals:

Terminals:

Construction

## **Electrical rating**

Supply voltage: Supply current: Max. load current: Alarm delay time:

**Connection:** 

| Power up delay: |
|-----------------|
| Power up state: |
| Output type:    |
| Output state:   |

Output state:

Connections:

### **Environmental Ratings:**

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

¼" NPTF

%″ NPTF

1/2" NPTF

1/2" BSPP

1/2" BSPT

IP67 (with mating connector fitted). 24 Bar (348 psi) -40 °C to +125 °C 70 g typical (dependent on thread size) ISO13766:2006

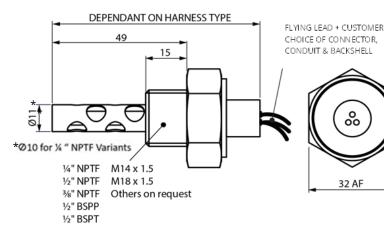


Flying lead entry:

Flying lead cables:

#### 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:

M14x1.5

M18x1.5

10 Nm

15 Nm

9-36 VDC.

connector.

7 mA + source output.

0 to 10 s (factory set).

See diagram below.

1.0 A (sink) or 20 mA (source).

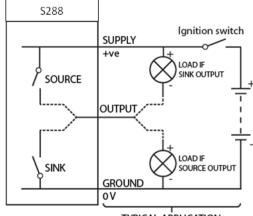
Flying lead + customer specified

0 to 25 s rising or falling (factory set).

'In Liquid' or 'Out of Liquid' (factory set).

Sink Open / Closed in liquid (factory set). Source On / Off in liquid (factory set).

Sink (open collector) and/or Source (supply voltage).



TYPICAL APPLICATION

Brass - one piece body and probe shroud.

### **Optional accessories**

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

E. & O. E. © Rochester Sensors UK Limited.

9 Nm

11 Nm

20 Nm

15 Nm

20 Nm

3.14 Rev 3

Since the suitability of these products depends upon a wide range of factors not in our control, Rochester Sensors UK Limited expects and understands that you will conduct the testing and evaluation necessary to determine that these products are suitable for your application. Whilst every effort is made to ensure the above details are correct at the time of printing, Rochester Sensors UK Limited reserves the right to make material changes, and or technical changes without notification.