

# S282 Oil Level Switch – Capacitance Type



The **S282** is an active device designed to give an alarm signal if oil 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 offers sink to ground 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 high accuracy the S282 is ideally 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.



## **SPECIFICATION**

### Liquid types: **Electrical rating**

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

Supply voltage:
Supply current:
Max. load current:
Alarm delay time:
Connection:
Power up delay:
Power up state:
Output type:
Output pin:
Output state:

ltage:	9-36 VDC.	Body:	
rrent:	7 mA + source output.	Probe:	
current:	1.0 A (sink) or 20 mA (source).	Termir	
ay time:	0 to 25 s rising or falling (factory set).	Seals:	
on:	4 way DIN 72585 / ISO 15170 connector	Conne	
delay:	0 to 10 s (factory set).		
state:	'In Liquid' or 'Out of Liquid' (factory set).		
pe:	Sink (open collector) and/or Source (supply voltage).		
n:	Pin 3 (sink) or Pin 4 (source).		
ate:	Sink Open / Closed in liquid (factory set).		
	Source On / Off in liquid (factory set).		
ions:	See diagram below.		

y: be: ninals: s: nector:

Brass -one piece body and probe shroud. PTFF. Brass, Tin Plated. FVMQ. PA66 30% Glass Filled Nylon.

### **Connections:**

¼" NPTF

¾" NPTF

1/2" NPTF

1/2" BSPP

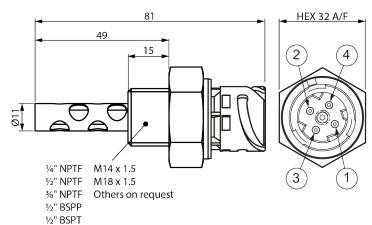
1/2" BSPT

### **Environmental Ratings**

Ingress:	IP67 / IPX9K (with mating connector fitted).
Max. pressure:	24 Bar (348 psi)
Temp. range:	-40 °C to +125 °C
Weight: 70 g typical (dependent on thread size)	
EMC:	ISO13766-1:2018

### Vibration (15.3 Grms)

3 orthogonal planes for 3 hours per plane Testing performed in accordance with BSEN 60068-2-64:1993 Drop test: 1 m to concrete surface.



S282 Ignition switch SUPPLY +veLOAD SOURCE OUTPUT

SINK OUTPUT GROUND 0 V

TYPICAL APPLICATION

NOTE: IF SINK ONLY OUTPUT IS REQUIRED THEN PIN 4 IS NOT USED.

**Optional accessories C/K2**: Mating connector kit to suit harness wire cross sectional area of 1 to 2.5 mm2. insulation diameter 1.2 to 3 mm: Ø1.60 to 2.15 mm. Comprising of: Crimp Terminals (x4), Cable seals (x4) and Connector assembly 4 way (x1).

3.17 rev 4

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

9 Nm

11 Nm

20 Nm

15 Nm

20 Nm

Recommended Installation Tightening Torques:

M14x1.5

M18x1.5

10 Nm

15 Nm

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.



