

S2 84 Oil Level Switch – Capacitance Type



The **S284** 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 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 S284 should ideally 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, Gold Plated.

PBT 30% Glass Filled.

SPECIFICATION

Liquid types:

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

Electrical	rating	
Supply voltage:		

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

Construction

Body:

Terminals:

Connector:

9-36 VDC.	воау:
7 mA + source output.	Probe:
1.0 A (sink) or 20 mA (source).	Terminal
0 to 25 s rising or falling (factory set).	Seals:
4 way Deutsch DT04-4P.	Connecto
0 to 10 s (factory set).	
'In Liquid' or 'Out of Liquid' (factory set).	
Sink (open collector) and/or Source (suppl	y voltage).
Pin 4 (sink) or Pin 3 (source).	
Sink Open / Closed in liquid (factory set).	
Source On / Off in liquid (factory set).	

See diagram below.

Connections:

Environmental Ratings

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M14 x 1.5

M18 x 1.5

M22 x 1.5

M22 x 2.5

*Ø10 for ¼" NPTF variants.

1/4" NPTF

%" NPTF

1/2" NPTF

1/2" BSPP

1/2" BSPT

Others on request

9 Nm

11 Nm

20 Nm

15 Nm

Recommended Installation Tightening Torques:

M14x1.5

M18x1.5

M22x1.5

M22x2.5

10 Nm

15 Nm

15 Nm

15 Nm

95

15

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

1/4" NPTF

3/8" NPTF

1/2" NPTF

¾" BSPP

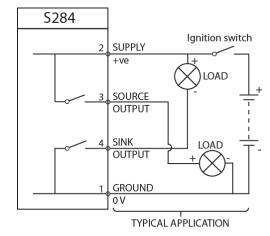
1/2" BSPP 1/2" BSPT

Ø11 *Ø10 IP67, IPX9K (with mating connector fitted). 24 Bar (348 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.

Brass - one piece body and probe shroud.



NOTE: IF SINK ONLY OUTPUT IS REQUIRED THEN PIN 3 IS NOT USED.

Optional accessories

C/K13: 4 way Deutsch DT06-4S mating connector kit to suit harness wire cross sectional area of 0.5 to 1.5 mm² (16-20 AWG).

20 Nm E & O E © Rochester Sensors UK Limited

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