# **TECHNICAL DATA**

S284 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 Fozmula with your application requirements.

## SPECIFICATION

Liquid types:

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

## **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:

9-36 VDC. 7 mA + source output. 1.0 A (sink) or 20 mA (source). 0 to 25 s rising or falling (factory set). 4 way Deutsch DT04-4P. 0 to 10 s (factory set). 'In Liquid' or 'Out of Liquid' (factory set). Sink (open collector) and/or Source (supply 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.

Body: Probe: Terminals<sup>.</sup> Seals: Connector: Brass. PTFE. Brass. Tin Plated. FVMQ. PA66 30% Glass Filled Nylon.

## **Connections:**

## **Environmental Ratings**

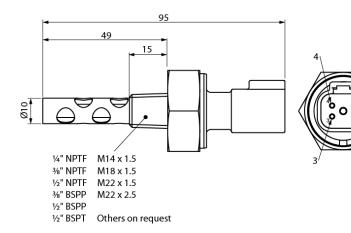
Ingress: Max. pressure: Temp. range: Weight: EMC:

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

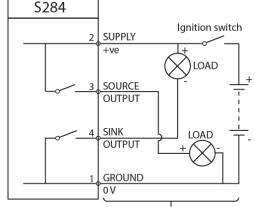
### Vibration (15.3 Grms)

32 AF

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



Recommended Installation Tightening Torques: 1/4" NPTF 9 Nm M14x1.5 10 Nm 3/8" NPTF 11 Nm M18x1.5 15 Nm 1/2" NPTF 20 Nm M22x1.5 15 Nm 1/2" BSPP M22x2.5 15 Nm 15 Nm 1/2" BSPT 20 Nm



TYPICAL APPLICATION

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 mm<sup>2</sup> (16-20 AWG).

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