## **TECHNICAL DATA**

# S283 Coolant Level Switch – Capacitance Type





The **S283** 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 S283 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:

**Electrical rating** 

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

**Connections:** 

### **Environmental Ratings**

Ingress: Max. pressure: Temp. range: Weight: EMC: See diagram below. S IP67 (with mating connector fitted). 5.0 Bar (72 psi) -40 °C to +125 °C 70 g typical (dependent on thread size) ISO13766:2006 Body: Probe: Terminals: Seals: Connector: Thread sealant:

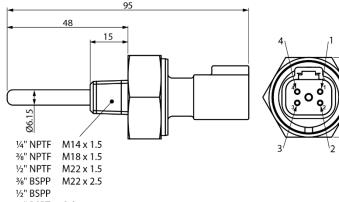
Water based liquids, such as coolant or washer fluid, compatible with brass, PTFE, EPDM and FVMQ.

Construction

Brass. PTFE. Brass, Tin Plated. FVMQ. PA66 30% Glass Filled Nylon. Vibra-Seal 516 (taper thread variants only).

#### Vibration (15.3 Grms)

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



9-36 VDC.

7 mA + source output.

4 way Deutsch DT04-4P.

0 to 10 s (factory set).

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

Pin 4 (sink) or Pin 3 (source).

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

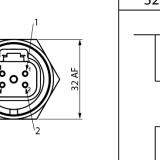
'In Liquid' or 'Out of Liquid' (factory set).

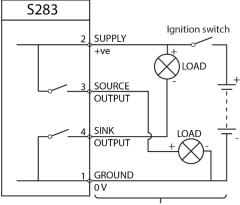
Sink Open / Closed in liquid (factory set). Source On / Off in liquid (factory set).

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

1/2" BSPT Others on request

Recommended Installation Tightening Torques:			
1/4" NPTF	9 Nm	M14x1.5	10 Nm
¾" NPTF	11 Nm	M18x1.5	15 Nm
½" NPTF	20 Nm	M22x1.5	15 Nm
1⁄2" BSPP	15 Nm	M22x2.5	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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JP 28-Jan-19 3.19 rev 1

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