TECHNICAL DATA

S281 Coolant Level Switch -Capacitance Type





The **S281** is an active device designed to give an alarm signal if coolant 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 S281 is ideally 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

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

Electrical rating

Construction 9-36 VDC. Body:

Supply voltage: Brass. Supply current: 7 mA + source output. Probe: PTFF. Terminals:

Max. load current: 1.0 A (sink) or 20 mA (source). Brass. Tin Plated. 0 to 25 s rising or falling (factory set). Seals: EPDM & FVMQ. Alarm delay time:

4 way DIN 72 585 connector PA66 30% Glass Filled Nylon. Connection: Connector:

Thread sealant: Vibra-Seal 516 (taper thread variants only). Power up delay: 0 to 10 s (factory set).

'In Liquid' or 'Out of Liquid' (factory set). Power up state:

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

Pin 3 (sink) or Pin 4 (source). Output pin:

Output state: Sink Open / Closed in liquid (factory set).

Source On / Off in liquid (factory set).

Connections: See diagram below.

Environmental Ratings

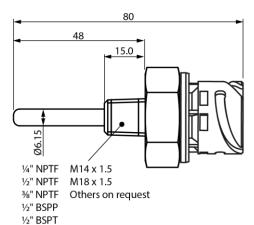
Ingress: IP67 (with mating connector fitted). Vibration (15.3 Grms)

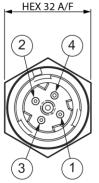
Max. pressure: 5.0 Bar (72 psi) 3 orthogonal planes for 3 hours per plane

-40 °C to +125 °C Testing performed in accordance with BSEN 60068-2-64:1993 Temp. range:

Weight: 70 g typical (dependent on thread size) Drop test: 1 m to concrete surface.

EMC: ISO13766-1:2018

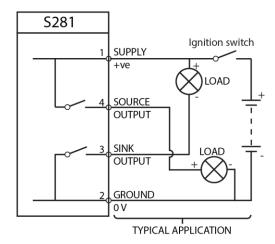






Recommended Installation Tightening Torques

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1/4" NPTF	9 Nm	M14x1.5	10 Nm
¾" NPTF	11 Nm	M18x1.5	15 Nm
½" NPTF	20 Nm		
½" BSPP	15 Nm		
½" BSPT	20 Nm		



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).

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