# **TECHNICAL DATA**

S287 Coolant Level Switch -Capacitance Type



INNOVATION IN SENSORS



The **S287** 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 and the flying lead enables customers to specify a suitable connector of their choice.

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.

The switch is designed to operate in both earthed metal and isolated plastic tanks. For high accuracy the S287 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

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

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

**Connections:** 

Max. pressure:

Temp. range:

Ingress:

Weight:

EMC:

9-36 VDC. 7 mA + source output. 1.0 A (sink) or 20 mA (source). 0 to 25 s rising or falling (factory set). Flying lead +customer specified connector. 0 to 10 s (factory set). 'In Liquid' or 'Out of Liquid' (factory set). Sink (open collector) and/or Source (supply voltage). Sink Open / Closed in liquid (factory set). Source On / Off in liquid (factory set). See diagram below. **Environmental Ratings** 

IP67 (with mating connector fitted)

70 g typical (dependent on thread size)

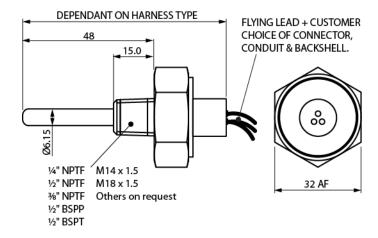
Water based liquids such as coolant or washer fluid.

Construction
Body:
Probe:
Terminals:
Seals:
Flying lead entry:
Flying lead cables:
Thread sealant:
voltage).

Brass. PTFE. Brass. Tin Plated. EPDM & FVMQ. PA66 30% Glass Filled Nylon. GXL type cable 18 AWG Vibra-Seal 516 (taper thread variants only).

# Vibration (15.3 Grms)

3 orthogonal planes for 3 hours per plane Drop: 1 m to concrete surface.

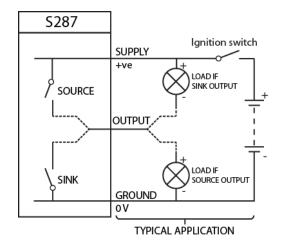


5.0 Bar (72 psi)

ISO13766:2006

-40 °C to +125 °C

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			
	½" BSPP	15 Nm			
	1⁄2" BSPT	20 Nm			



#### **Optional accessories**

This switch can be supplied with any suitable mating plug or receptacle to suit customers' applications.

Hermes Close | Tachbrook Park | Warwick | CV34 6UF | United Kingdom Tel: +44 (0)1926 466700 | Fax: +44 (0)1926 450473 | sales@fozmula.com

### www.fozmula.com

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Testing performed in accordance with BSEN 60068-2-64:1993