## **TECHNICAL DATA**

# S285 Coolant Level Switch – Capacitance Type





The **S285** 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 outputs, or even both outputs on separate pins. 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.

Brass.

PTFE.

Brass. Tin Plated.

PA66 30% Glass Filled Nylon.

Vibra-Seal 516 on request.

EPDM & FVMQ.

### SPECIFICATION

Construction

Body:

Probe:

Seals:

Terminals:

Connector:

Thread sealant:

Liquid types: Water based liquids such as coolant or washer fluid.

Electrical rating Supply voltage:

9-35 VDC.

3-33 VDC.

Supply current: 7 mA + source output.

Max. load current:1.0 A (sink) or 20 mA (source).Alarm delay time:0 to 10 s rising or falling (factory set).

**Connection:** 4 way Delphi Packard connector. **Power up delay:** 1 to 10 s (factory set).

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

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

Output pin: Pin D (sink) or Pin A (source).

Output state in liquid: Closed (sink), On (source)\*

Output state in air: Open (sink), Off (source)\*

Connections: See diagram below.

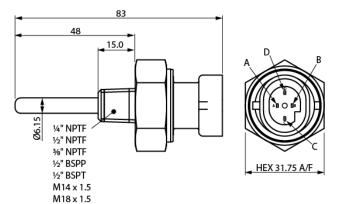
\*Outputs are factory selectable opposite states and dual outputs on output 1 are available on request.

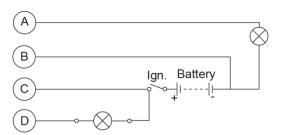
#### **Environmental Ratings**

Ingress: IP67

Max. pressure: 5.0 Bar (72 psi)

Temp. range:-40 °C to +125 °C (-40 °F to + 257 °F)Weight:70 g typical (dependent on thread size)EMC:ISO10605, ISO11452-1 & ISO11452-3





## Vibration (15.3 Grms)

3 orthogonal planes for 3 hours per plane

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

Frequency (Hz)	g² Hz <sup>-1</sup>
24	0.4
60	0.5
100	0.5
240	0.1
2000	0.1

**Drop:** 1 m to concrete surface.

#### **Optional accessories**

Mating connector kit to suit harness wire cross sectional area of 0.8 to 1.0  $\text{mm}^2$  and sleeve Ø1.60 to 2.15 mm:

Our Part no Description

C/K1 Connector kit comprising of:

Crimp Terminals (x4) Cable seals (x4) Cavity plug (x1)

Connector assembly 4 way (x1)

TPA lock (x1)

From the Packard Metri-Pack 150 series of connectors.

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