

TECHNICAL DATA

S85 Capacitance Coolant Level Switch

FOZMULA
INNOVATION IN SENSORS



The **Model S85** is an active device which is designed to give an alarm signal if liquid falls below / rises above a preset level. It will only signal an alarm after a few seconds of low / high level to eliminate false alarms due to turbulence.

Containing a programmable microprocessor, the switch can offer one or two output pins which can sink to ground or supply a source voltage, or both. Its tiny footprint with limited intrusion into the tank means a reduced risk of damage and a wide range of options and customisations make it suitable for most applications. Different thread options are available on request.

SPECIFICATION

Electrical Rating

Supply Voltage:	5 VDC or 7-35 VDC
Supply Current:	5 mA + source output
Max. Load Current:	1.0 A (sink) or 20 mA (source)
Alarm Delay Time:	0 to 25 s rising or falling (factory set)
Connection:	4 way Delphi Packard connector
Start-up Delay:	1 to 10 s

Construction

Body:	Brass
Probe:	PTFE
Terminals:	Brass, Tin Plated
Seals:	Viton FKM
Connector:	30% Glass Filled Nylon 6
Thread sealant:	Vibra-Seal 516 on request

Liquid Types

Water based liquids compatible with Brass, PTFE and Viton FKM

Environmental Ratings

Sealing:	IP67
Max. pressure:	5.0 Bar (72 psi)
Temp. range:	-20 °C to +125 °C (-4 °F to + 257 °F)
Weight:	70 g typical (dependent on thread size)
EMC:	ISO10605, ISO11452-1 & ISO11452-3

Vibration (15.3 Grms)

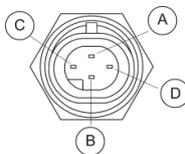
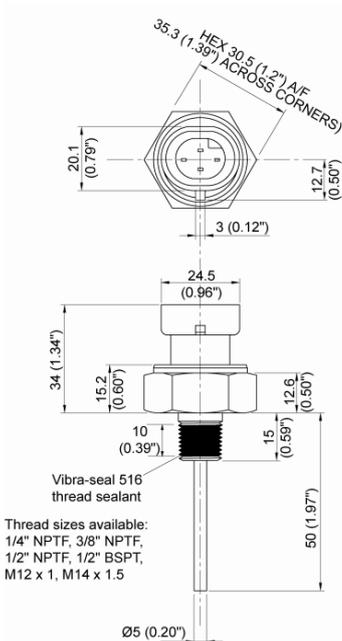
3 orthogonal planes for 3 hours per plane
Testing performed in accordance with BSEN 60068-2-64:1993

Frequency (Hz)	$g^2 Hz^{-1}$
24	0.4
60	0.5
100	0.5
240	0.1
2000	0.1

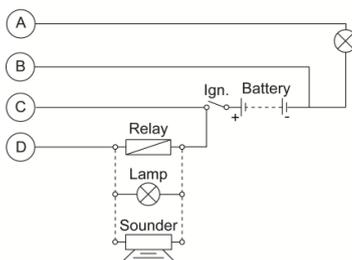
Connections

See diagram below:

Note: Outputs are factory selectable and dual outputs on output 1 are available on request.



A:	Output 2	Source 5V or V+
B:	GND	Negative power supply or GND
C:	V+	Positive power supply
D:	Output 1	Transistor switched to GND (Sink)
	Body	Not connected



Optional accessories

Mating connector kit to suit harness wire cross sectional area of 0.8 to 1.0 mm² 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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