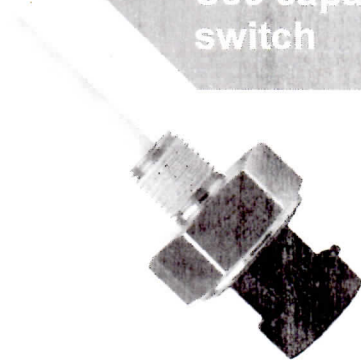


TECHNICAL DATA

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 fluid falls below a preset level. It will only signal an alarm after a few seconds of low 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 makes it suitable for most applications.

SPECIFICATION

Electrical Rating

Supply Voltage: 5 VDC or 7 - 35 VDC
Supply Current: 1.5mA + source output
Max. Load Current: 1.0A (sink) or 20mA (source)
Alarm Delay Time: 0 - 25 secs rising or falling (factory set)
Connection: 4 way Delphi Packard connector
Start up Delay: 1 - 5 secs

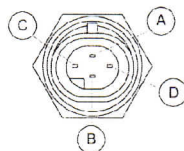
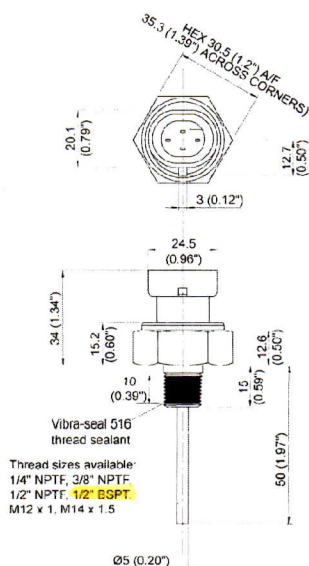
Fluid Types

Water based fluids compatible with Brass, PTFE and NBR rubber

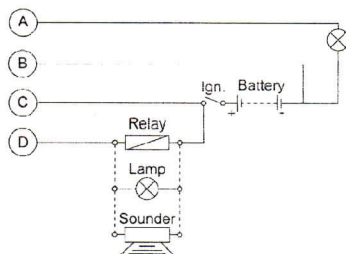
Environmental Ratings

Sealing: IP67
Max. pressure: 5.0 Bar (72 psi)
Temp. ranges: Fluid: -40°C to +130°C (-40°F to + 266°F)
 Storage: -40°C to +140°C (-40°F to + 266°F)
Weight: 53g (2 oz)
EMC: Tested to ISO 10605, ISO 11452-1 and ISO 11452-3

Note: Torque setting on installation should not exceed 22Nm. Unit should be tightened with a 31mm ring spanner or 31mm socket.



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



Construction

Body: Brass
Probe: PTFE
Terminals: SAE CA210Brass, Tin Plated
Seals: NBR rubber
Connector: 30% Glass Filled Nylon 6
Thread sealant: Vibra-Seal 516



Connections

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

Vibration (15.3 grms)

3 orthogonal planes for 3 hours per plane

Frequency (Hz)	G2/Hz
24	0.4
60	0.5
100	0.5
240	0.1
2000	0.1

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

Optional accessories:

Mating connector kit to suit harness wire cross sectional area of 0.8 to 1.0mm² and sleeve Ø1.60 to 2.15mm:

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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