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. The fact that the **Model S85** has no moving parts and incorporates a built in delay means it is ideal in appliations where mechanically operated switches mis-trigger due to vibration and fluid turbulence.

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
	Storage:	-50°C to +140°C
Weight:	53g	
EMC:	Type approval to EN ISO 13766:2006	

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

Construction

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

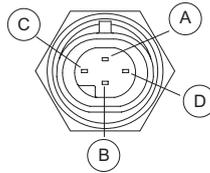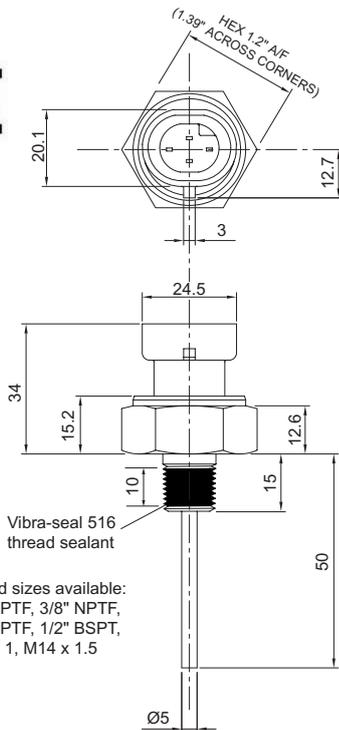### Connections

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

Vibration (15.3 grms)
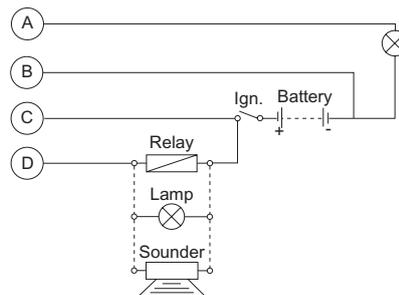3 orthoganol planes for 3 hours per plane

Frequency (Hz)	G2/Hz
24	0.04
60	0.5
100	0.5
240	0.1
2000	0.1

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

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

Vibra-seal 516 thread sealant

Thread sizes available:
1/4" NPTF, 3/8" NPTF, 1/2" NPTF, 1/2" BSPT, M12 x 1, M14 x 1.5

Optional accessories:
Mating connector kit to suit harness wire cross sectional area of 0.8 to 1.0mm^2 and sleeve ∅1.60 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.