The **Model S86** 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

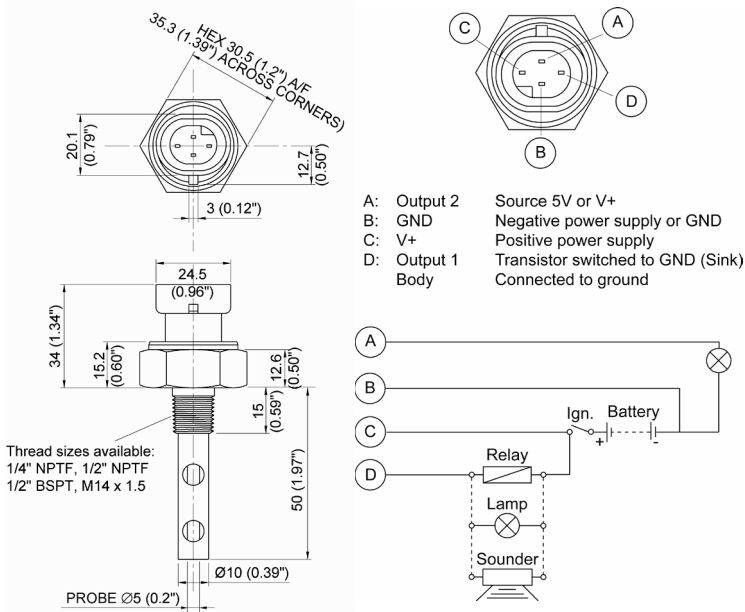|	
Supply Voltage:	5 VDC or 7 - 35 VDC
Supply Current:	1.5mA + source output
Max. Load Current:	1.0A (sink) or 20mA (source)
Alarm Delay Time:	0 - 25 secs rising or falling (factory set)
Connection:	4 way Delphi Packard connector
Start up Delay:	1 - 5 secs

Fluid Types

Mineral oils, typically used in engines or hydraulic actuators, 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 (-40ºF to + 266ºF)
	Storage:	-40°C to +140°C (-40ºF to + 266ºF)
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.

Construction

Body:	Brass
Probe:	PTFE
Terminals:	SAE CA210Brass, Tin Plated
Seals:	NBR rubber
Connector:	30% Glass Filled Nylon 6

CE

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	0.4
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	Connected to ground

Thread sizes available:
1/4" NPTF, 1/2" NPTF
1/2" BSPT, 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 $\varnothing$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.