

S82 Capacitance Oil Level Switch



The **Model S82** 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.

The fact that the **Model S82** has no moving parts and incorporates a built in delay means it is ideal in applications where mechanically operated switches mis-trigger due to vibration and liquid turbulence. 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 DIN 72 585 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

Fluid Types

Mineral oils, typically used in engines or hydraulic actuators, 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)

Vibration (15.3 Grms)

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

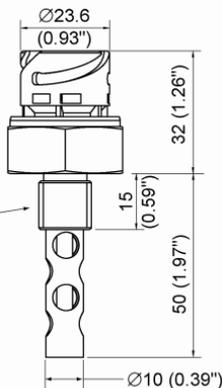
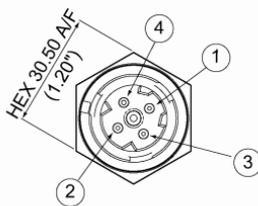
Frequency (Hz) $g^2 Hz^{-1}$

24	0.4
60	0.5
100	0.5
240	0.1
2000	0.1

Connections

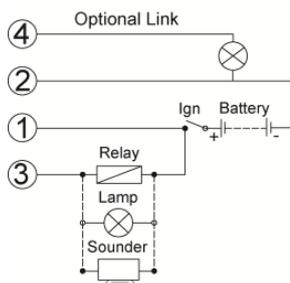
See diagram below:

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



Thread Options:
1/4" NPTF
3/8" NPTF
1/2" NPTF
1/2" BSPT
1/2" BSPP
M14 X 1.5

- 4: Output 2 Source 5V or V+
- 2: GND Negative power supply or GND
- 1: V+ Positive power supply
- 3: Output 1 Transistor switched to GND (Sink)
- Body Connected to ground



Optional Accessories

Mating connector kit to suit harness wire cross sectional area of 1 to 2.5 mm², insulation diameter 1.2 to 3 mm:

Our Part no:
C/K2

Description:

Connector kit comprising of:
Crimp Terminals (x4)
Cable seals (x4)
Connector assembly 4 way (x1)