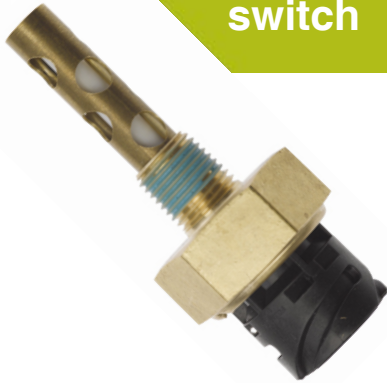


## TECHNICAL DATA

**FOZMULA**  
INNOVATION IN SENSORS

### S82 capacitance coolant level switch



The **Model S82** 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 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 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 DIN 72 585 connector  
**Start up Delay:** 1 - 5 secs

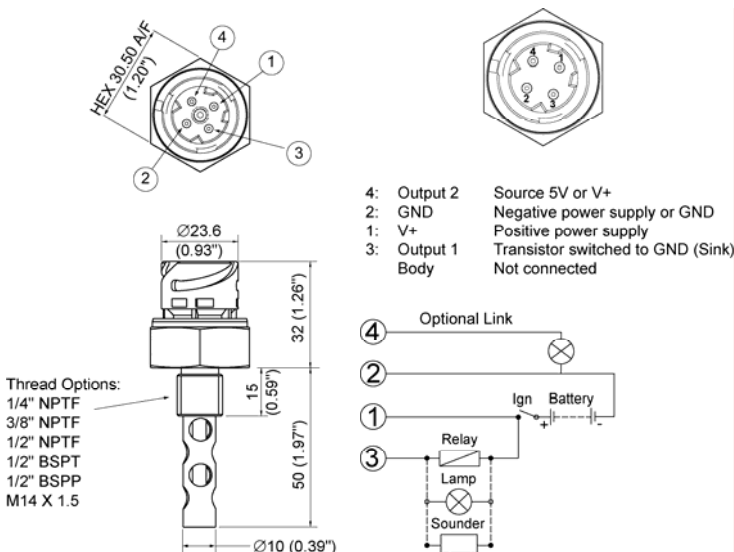
### Fluid Types

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 (-40°F to + 266°F)  
 Storage: -40°C to +140°C (-40°F to + 266°F)  
**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 CZ121 Brass, Nickel Plated  
**Seals:** NBR rubber  
**Connector:** 30% Glass Filled Nylon 6  
**Thread sealant:** Polyacrylate Aqueous Emulsion Base



### 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

### Optional accessories:

Mating connector kit to suit harness wire cross sectional area of 0.5 to 1.5mm<sup>2</sup>.

**Our Part no** C/K2  
**Description** Connector kit comprising of:  
 Crimp Terminals (x4)  
 Cable seals (x4)  
 Connector assembly 4 way (x1)

Berrington Road | Leamington Spa | Warwickshire CV31 1NB | UK

Tel: +44 (0)1926 466700 | Fax: +44 (0)1926 450473 | www.fozmula.com

[www.fozmula.com](http://www.fozmula.com)

E. & O. E. © Fozmula Limited. August 2008 Issue No. 3

Since the suitability of these products depends upon a wide range of factors not in our control, Fozmula Limited expects and understands that you will conduct the testing and evaluation necessary to determine that these products are suitable for your application. Whilst every effort is made to ensure the above details are correct at the time of printing, Fozmula Limited reserves the right to make material changes, and or technical changes without notification.