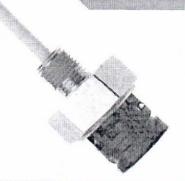
TECHNICAL DATA

S81 Capacitance Coolant Level Switch





The Model S81 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 S81 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) 4 way DIN 72 585 connector

Connection:

Start-up Delay:

1 to 10 s

Construction

Body:

Probe:

Terminals:

Seals:

Connector:

Thread sealant:

Brass

PTFE

Brass, Tin Plated

Viton FKM

30% Glass Filled Nylon 6

Vibra Seal 516 on request

Liquid Types

Water based liquids compatible with Brass, PTFE and Viton FKM

Environmental Ratings

Sealing:

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)

Connections

See diagram below:

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

IP67 Vibration (15.3 Grms)

Frequency (Hz)

60

100

240

2000

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

g2 Hz-1

0.4

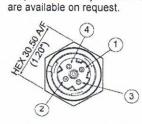
0.5

3 orthogonal planes for 3 hours per plane

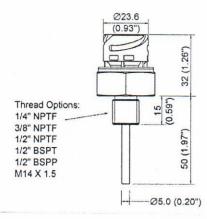
0.5

0.1

0.1





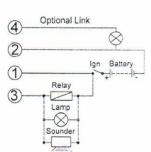


Output 2 2: GND

1: Output 1

Source 5V or V+ Negative power supply or GND

Positive power supply Transistor switched to GND (Sink) Not connected



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)