

TECHNICAL DATA

FOZMULA
INNOVATION IN SENSORS

S87 capacitance coolant level switch



The **Model S87** 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 offers one output pin which can sink to ground or supply a source voltage. 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: 3mA + source output
Max. Load Current: 1.0A (sink) or 20mA (source)
Alarm Delay Time: 0 - 25 secs rising or falling (factory set)
Flying leads cable: GXL type cable

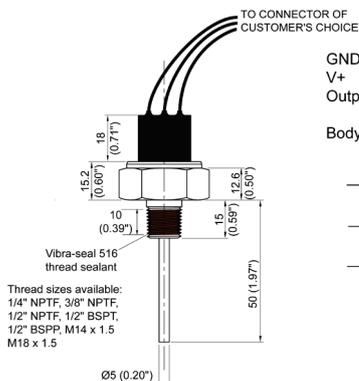
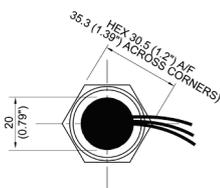
Fluid Types

Water based fluids compatible with Brass, PTFE and NBR rubber

Environmental Ratings

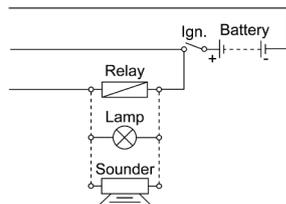
Sealing: IP67
Max. pressure: 5.0 Bar (72 psi)
Temp. ranges: Fluid: -40°C to +130°C (-40°F to + 266°F)
 Storage: -50°C to +140°C (-58°F to + 284°F)
Weight: 53g (2 oz.)

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



TO CONNECTOR OF CUSTOMER'S CHOICE

GND Negative power supply or GND
 V+ Positive power supply
 Output 1 Switched to GND (Sink), or Supply source or 5VDC source
 Body Not connected



Construction

Body: Brass
Probe: PTFE
Terminals: SAE CA210Brass, Tin Plated
Seals: NBR rubber
Flying leads connector: PA66 G/F30% and epoxy, TPE cap
Thread sealant: Vibra-seal 516



Connections

See diagram below
 Note: Outputs are factory selectable only

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:

The S87 can be supplied with any style of plug or receptacle as required.

Hermes Close | Tachbrook Park | Warwick | CV34 6UF | United Kingdom
 Tel: +44 (0)1926 466700 | Fax: +44 (0)1926 450473 | sales@fozmula.com

www.fozmula.com

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