

## TECHNICAL DATA

### S287 Coolant Level Switch – Capacitance Type

**FOZMULA**  
INNOVATION IN SENSORS



The **S287** is an active device designed to give an alarm signal if liquid falls below, or rises above, a preset level. It can be specified with a delay to eliminate false alarms due to turbulence and the flying lead enables customers to specify a suitable connector of their choice.

Containing a factory programmable microprocessor, the switch offers sink to ground or source voltage outputs. Its small footprint with limited intrusion into the tank means a reduced risk of damage and a wide range of customer specifiable options make it suitable for most applications.

## SPECIFICATION

<b>Liquid types:</b>	Water based liquids such as coolant or washer fluid.	<b>Construction</b>	
<b>Electrical rating</b>		<b>Body:</b>	Brass.
<b>Supply voltage:</b>	9-35 VDC.	<b>Probe:</b>	PTFE.
<b>Supply current:</b>	7 mA + source output.	<b>Terminals:</b>	Brass, Tin Plated.
<b>Max. load current:</b>	1.0 A (sink) or 20 mA (source).	<b>Seals:</b>	EPDM & FVMQ.
<b>Alarm delay time:</b>	0 to 10 s rising or falling (factory set).	<b>Flying lead entry:</b>	PA66 30% Glass Filled Nylon.
<b>Connection:</b>	Flying lead +customer specified connector.	<b>Flying lead cables:</b>	GXL type cable 18 AWG
<b>Power up delay:</b>	1 to 10 s (factory set).	<b>Thread sealant:</b>	Vibra-Seal 516 on request.
<b>Power up state:</b>	'In Liquid' or 'Out of Liquid' (factory set).		
<b>Output type:</b>	Sink (open collector) or Source (supply voltage).		
<b>Output state in liquid:</b>	Closed (sink), On (source)*		
<b>Output state in air:</b>	Open (sink), Off (source)*		
<b>Connections:</b>	See diagram below.		

\*Outputs are factory selectable opposite states are available on request.

### Environmental Ratings

<b>Ingress:</b>	IP67
<b>Max. pressure:</b>	5.0 Bar (72 psi)
<b>Temp. range:</b>	-40 °C to +125 °C (-40 °F to + 257 °F)
<b>Weight:</b>	70 g typical (dependent on thread size)
<b>EMC:</b>	ISO10605, ISO11452-1 & ISO11452-3

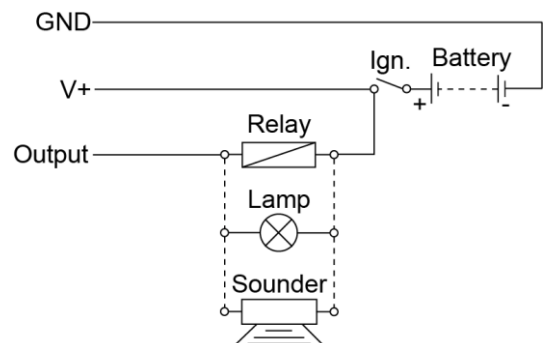
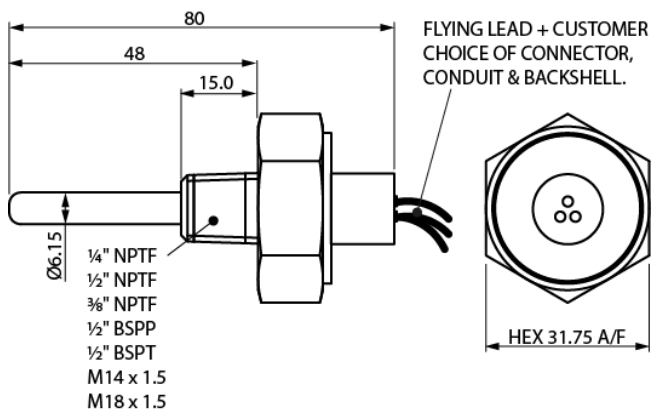
### Vibration (15.3 Grms)

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

**Drop:** 1 m to concrete surface.



### Optional accessories

This switch can be supplied with any suitable of mating plug or receptacle to suit customers' applications.