TECHNICAL DATA

S291 Coolant Level Switch -Capacitance Type with **Complementary Voltage Output.**





The **S291** 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.

Containing a factory programmable microprocessor, the switch provides a complementary voltage output on two pins.

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.

The switch is designed to operate in both earthed metal and isolated plastic tanks. For high accuracy the S291 is ideally mounted horizontally at the point where an alarm or control signal is required. However, the switch can be mounted vertically - contact Fozmula with your application requirements

> Rrass PTFF.

Brass, Tin Plated.

EPDM & FVMQ.

PA66 30% Glass Filled Nylon.

Vibra-Seal 516 (taper thread variants only).

SPECIFICATION

Body:

Prohe-

Seals:

Terminals:

Connector:

Thread sealant:

Vibration (15.3 Grms)

Liquid types: Water based liquids such as coolant or washer fluid.

Electrical rating

Construction

Supply voltage:

Supply current:

5±0.25 VDC.

5 mA + source output.

0 to 25 s rising or falling (factory set).

Alarm delay time: 4 way Delphi Packard Metri-Pack 150 Connection:

series connector.

Power up delay: 0 to 10 s (factory set).

'In Liquid' or 'Out of Liquid' (factory set). Power up state:

0.5±0.25 VDC.

Output type: Voltage (Complementary).

Output pin:

Pin A. Pin D.

Output state in liquid*:

4±0.25 VDC. 0.5±0.25 VDC.

Output state in air*:

4±0.25 VDC. 10 mA maximum. 10 mA maximum.

Output current: **Connections:**

1/4" NPTF

1/2" NPTF

3/8" NPTF

1/2" BSPP

1/5" BSPT

M14 x 1.5

M18 x 1.5

Others on request

See diagram below.

*Outputs are factory selectable; opposite states and alternative values from 0.5-4.5 VDC are available on request.

Environmental Ratings

Ingress: IP67 (with mating connector fitted).

Max. pressure: 5.0 Bar (72 psi)

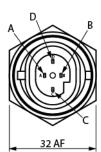
-40 °C to +125 °C Temp. range:

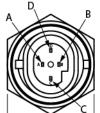
83

15.0

Weight: 70 g typical (dependent on thread size)

EMC: ISO13766:2006





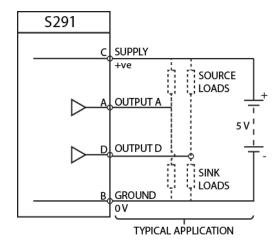
Recommended Installation Tightening Torques:

	1/4" NPTF	9 Nm	M14x1.5	10 Nm	
	%" NPTF	11 Nm	M18x1.5	15 Nm	
	½" NPTF	20 Nm			
	½" BSPP	15 Nm			
	½" BSPT	20 Nm			

3 orthogonal planes for 3 hours per plane

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

Drop: 1 m to concrete surface.



Optional accessories

C/K1: Packard Metri-Pack 150 series mating connector kit to suit harness wire cross sectional area of 0.8 to 1.0 mm² and sleeve Ø1.60 to 2.15 mm.

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

printing, Fozmula Limited reserves the right to make material changes, and or technical changes without notification.

www.fozmula.com