



S285 Coolant Level Switch – Capacitance Type

Application

The COLM (COntec Level Measurement) S285 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 offers sink to ground or source voltage output. 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 S285 is ideally mounted horizontally at the point where an alarm or control signal is required. However, the switch can be mounted vertically.



Specifications

Liquid types: Water based liquids, such as coolant or washer fluid, compatible with brass, PTFE, EPDM and FVMQ.

Features: Customized switches on demand

Electrical rating

Supply voltage: 9–36 Vdc
Supply current: 7 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)
Connection: 4 way Delphi Packard Metri-Pack 150 series connector
Power up delay: 0 to 10 s (factory set)
Power up state: 'In Liquid' or 'Out of Liquid' (factory set)
Output type: Sink (open collector) and/or Source (supply voltage)
Output pin: Pin D (sink) or Pin A (source)
Output state: Sink Open / Closed in liquid (factory set)
 Source On / Off in liquid (factory set)

Environmental Ratings

Ingress: IP 67 (with mating connector fitted)
Max. pressure: 5.0 Bar (72 psi)
Temp. range: –40 °C to +125 °C
Weight: 70g typical (dependent on thread size)
EMC: ISO 13766:2006
Vibration (15.3 Grms): 3 orthogonal planes for 3 hours per plane. Testing performed in acc. with BSEN 60068-2-64:1993
Drop: 1 m to concrete surface

Construction

Body: Brass
Probe: PTFE
Terminals: Brass, Tin Plated
Seals: EPDM & FVMQ
Connector: PA66 30% Glass Filled Nylon
Thread sealant: Vibra-Seal 516 (taper thread variants only)

Recommended Installation

Tightening Torques

1/4" NPTF	9 Nm	M14x1.5	10 Nm
3/8" NPTF	11 Nm	M18x1.5	15 Nm
1/2" NPTF	20 Nm		
1/2" BSPP	15 Nm		
1/2" BSPT	20 Nm		

Options

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 Ø 1.60 to 2.15 mm.

