



S286 Oil Level Switch – Capacitance Type

Application

The COLM (CONtec Level Measurement) S286 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. For high accuracy the S286 is ideally mounted horizontally at the point where an alarm or control signal is required. However, the switch can be mounted vertically.

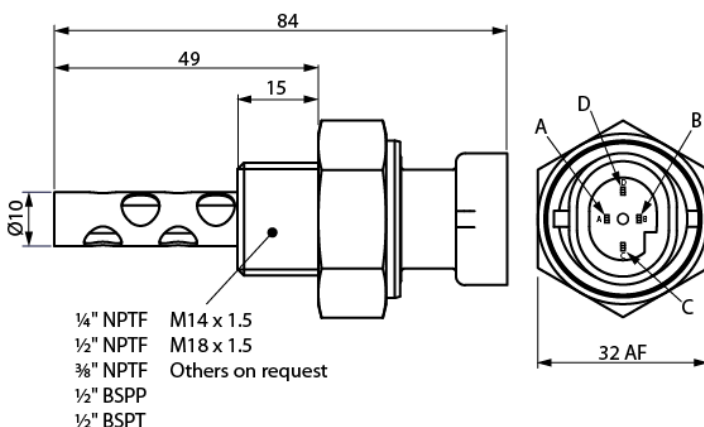


Specifications

Liquid types:	Mineral oils, typically used in engines or hydraulic actuators, compatible with brass, PTFE and FVMQ.
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:	70 g 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:	FVMQ
Connector:	PA66 30% Glass Filled Nylon

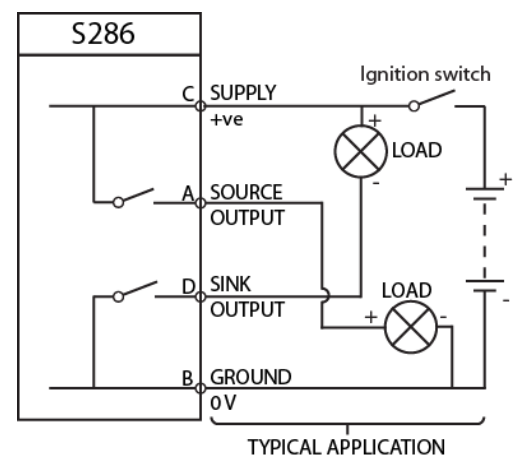
Recommended Installation

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.



NOTE: IF SINK ONLY OUTPUT IS REQUIRED THEN PIN A IS NOT USED.