TECHNICAL DATA

S276 Oil Level Switch – Capacitance Type





The **\$276** 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 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 S276 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.

SPECIFICATION

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: 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 'In Air' (factory set).

Output type: Source (supply voltage less typically 2.7 V @ 10 mA.

Output pin: Pin D.

Output state: Source On / Off in liquid (factory set).

Connections: See diagram below.

Environmental Ratings

Ingress: IP67 (with mating connector fitted).

Max. pressure: 5.0 Bar (72 psi)

Temp. range: $-40 \, ^{\circ}\text{C} \text{ to } +125 \, ^{\circ}\text{C}$

Weight: 70 g typical (dependent on thread size)

EMC: ISO13766:2006

Construction

Terminals:

Body: Brass.

Probe: PTFE.

Seals: FVMO

Connector: PA66 30% Glass Filled Nylon.

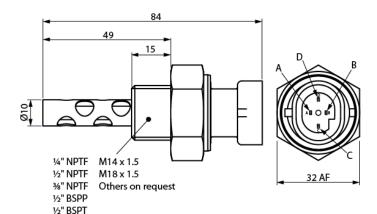
Brass. Tin Plated.

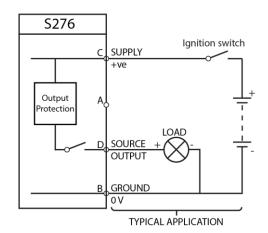
Vibration (15.3 Grms)

3 orthogonal planes for 3 hours per plane

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

Drop: 1 m to concrete surface.





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		

NOTE: PIN A IS NOT USED.

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

www.fozmula.com