

S274 - Oil Level Switch - Capacitance Type



Featuring an integrated Deutsch DT04-3P connector the **\$274** is a capacitance type oil level switch for use in mineral oils including engine, transmission and hydraulic oils. It is an active device designed to give an alarm signal if oil falls below, or rises above, a preset level. It can also be specified with a delay to eliminate false alarms due to turbulence.

The switch is available with either sink to ground or source voltage output. A wide range of customers specifiable options make it suitable for most applications.

For high accuracy, the S274 should ideally be mounted horizontally at the point where an alarm or control signal is required. However, the switch can be mounted vertically – contact Rochester Sensors with your application requirements.

SPECIFICATION

Liquid Types

Mineral oils, typically used in engines, transmissions, compressors or hydraulic actuators, compatible with brass, PTFE and FVMQ.

Materials

Construction

Supply voltage: 9-36 VDC. **Body:** Brass or 316 Stainless Steel - one piece body and probe shroud

Supply current: 7 mA + source output. **Probe:** PTF6

Max. load current:1.0 A (sink) or 20 mA source).Terminals:Brass, Gold Plated.Alarm delay time*:0 to 25 s rising or falling.Seals:EPDM & FVMQ.Connection:3-way Deutsch DT04-3P.Connector:30% Glass Filled PBT.

Power up delay*: 0 to 10s **Tread Sealant:** Applied to taper thread variants only

Power up state*: In Liquid` or `Out of Liquid`.

Output type*: Sink (open collector) or Source (supply voltage less typically 2.7 v @ 10 mA

Output state*: Sink Open / Closed in oil. Source On / Off in oil.

*Factory set

Connections: See diagrams below.

Environmental Ratings

Ingress IP67 (with mating connector fitted)

Max. Pressure 24 bar (348 PSI) **Temp. range:** -40 °C to +125 °C.

Weight: 70g typical (dependent on thread size)

EMC: ISO13766:2006

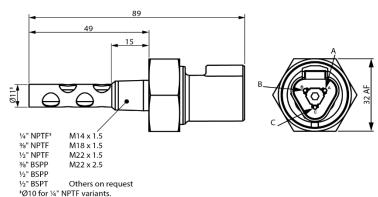
Vibration (15.3 GRMS):

3 orthogonal planes for 3 hours per plane.

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

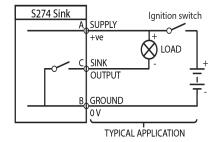
Drop:

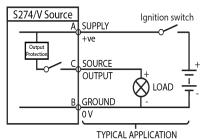
1m to concrete surface.



Recommended Installation Tightening Torques:

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1/4" NPTF	Nm	M14x1.5	Nm
%" NPTF	Nm	M18x1.5	Nm
½" NPTF	Nm	M22x1.5	Nm
½" BSPP	Nm	M22x2.5	Nm
½" BSPT	Nm		





Optional Accessories:

C/ K8: 3 way Deutsch DT06-3S mat ing connector kit to suit harness wire cross sectional area of 0.5 to 1.5mm2 (16-20 AWG).

8.6/3 Rev. 6

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