

S283 Coolant Level Switch – Capacitance Type



The **S283** 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 S283 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 UK Limited with your application requirements.

SPECIFICATION

Liquid types: Electrical rating

Supply Supply Max. lo Alarm Conne Power Power Outpu Outpu Outpu Water based liquids, such as coolant or washer fluid, compatible with brass, PTFE, EPDM and FVMQ.

rical rating		Construction			
y voltage:	9-36 VDC.	Body:	Brass.		
y current:	7 mA + source output.	Probe:	PTFE.		
load current:	1.0 A (sink) or 20 mA (source).	Terminals:	Brass, Gold Plated.		
n delay time:	0 to 25 s rising or falling (factory set).	Seals:	FVMQ.		
ection:	4 way Deutsch DT04-4P.	Connector:	PBT 30% Glass Filled.		
r up delay:	0 to 10 s (factory set).	Thread sealant:	Vibra-Seal 516 (taper thread variants only).		
r up state:	'In Liquid' or 'Out of Liquid' (factory set).				
ut type:	Sink (open collector) and/or Source (supply voltage).				
ut pin:	Pin 4 (sink) or Pin 3 (source).				
ut state:	Sink Open / Closed in liquid (factory set).				
	Source On / Off in liquid (factory set).				
ections:	See diagram below.				

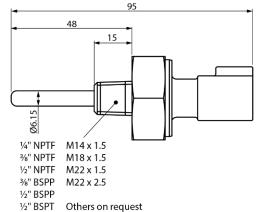
Connections:

Environmental Ratings

Ingress: Max. pressure: Temp. range: Weight: EMC: IP67 (with mating connector fitted). 5.0 Bar (72 psi) -40 °C to +125 °C 70 g typical (dependent on thread size) 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:** 1 m to concrete surface.

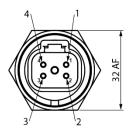


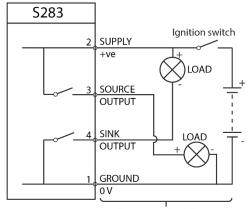
 Recommended Installation Tightening Torques:

 ¼" NPTF
 9 Nm
 M14x1.5
 10 Nm

 ¾" NPTF
 11 Nm
 M18x1.5
 15 Nm

1/4" NPTF	9 NM	M14x1.5	10 NM
¾" NPTF	11 Nm	M18x1.5	15 Nm
1⁄2" NPTF	20 Nm	M22x1.5	15 Nm
1⁄2" BSPP	15 Nm	M22x2.5	15 Nm
1⁄2" BSPT	20 Nm		





TYPICAL APPLICATION

NOTE: IF SINK ONLY OUTPUT IS REQUIRED THEN PIN 3 IS NOT USED.

Optional accessories

C/K13: 4 way Deutsch DT06-4S mating connector kit to suit harness wire cross sectional area of 0.5 to 1.5 mm² (16-20 AWG).

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