

9840 Push-in RSP Sensor

9840 Family Push-in RSP Sensor

Rugged plastic push-in RSP sensor for rotomolded tanks

The 9840 family of push-in RSP sensors offers a fast installation option for rotomolded tanks. The level sensor snaps into a rotomolded tank without requiring the SAE mounting adapter and bolts. This simplifies installation and reduces the cost of tanks.

Nylon construction provides a lightweight, durable sensor. A grommet provides a seal at the tank interface. The sensor has an industry standard output of 240 to 30 ohms and can be customized to meet specific application needs. The device is press-fit into a tank opening and features ribs to ensure a snug fit around the sealing area.

General Information and Features

- Nylon housing offers excellent mechanical properties and chemical resistance.
- Ingress Protection: IP67 rated.

Key Benefits

- Snap fit into tank works with plastic rotomolded tanks.
- Compatible with existing RSP technology to simplify integration into ECU and sensors.

Tank Opening

- Recommended tank hole size 1.486" +/-.020" [37.75]
- The hole size may need to be increased or decreased depending on the tank wall thickness and manufacturing process.

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Dimensions

An optional connector is shown in the illustration below. The default configuration is 12" flying leads.



Ordering Information

9840-UULLLG-CC UU represents ullage in 0.1" increments from 1.5" to 9.9." Standard ullage is 1.5." LLL represents overall length in 0.1" increments from 4.0" to 20.0." G is the gasket selection, N Nitrile (standard) or V Viton CC is an optional connector. Blank - flying leads with 12" cable length X1 - Deutsch DTM04-2P connector with 6" cable length Other connector options available on request

Example part number: 9840-15095N-X1 (for 9.5" length with nitrile gasket and connector)

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Electrical Interface

Parameter	Condition	Min	Typical	Max	Units
Max input voltage	V _{max}	-		15	V
Max current	I _{max}	-	-	25	mA
Signal Output Empty	R _{out}	28		33	ohms
Signal Output Full	R _{out}	237		250	Ohms
Power	P _{max}			0.5	W

Cable Pinout

- Pin 1. Signal White
- Pin 2. Ground Black

Environmental Ratings

Parameter	Condition	Min	Typical	Max	Unit
Operating Temperature Range	Temperature Range	-40	-	85	°C
Module Accuracy	Typical: 30 ohms +/- 2% full 240 ohms +/- 2% empty	-	<2%	-	Level
UV withstand	600 hrs., UVA-340 @.76W/m2, 70°C	-	Pass		
Leak Test	Each unit individually tested			16 [1,1 Bar]	PSIG

Durability

Parameter	Condition		
Thermal Shock / Hot Dunk	10 cycles in air, +85C to room temperature Saline		
Vibration Test	6 hours per plane, 9.9 Grms, 24-2000 Hz		
Salt Spray	96 hours		
Drop Test	0.5 m onto concrete each orientation		
Lead Pull Test	20 lbs harness, 10 lbs each wire		

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