

TLL155 Capacitive Fuel Level Sensor



The TLL155 liquid level sensor is designed for use in fuel tanks and is available with a variable resistive, voltage or current output suitable for driving industry standard fuel gauges or connecting into PLCs. It is supplied in standard probe lengths of 500mm or 1000mm and can be cut to suit the length required at site. For volume production requirements we will manufacture to the length & output you require.

SPECIFICATION

Liquid Types

Non-conductive fuels: Diesel, Petrol, Kerosene, Gasolene and HVO.

Electrical

9 - 36 VDC with 80V over protection. Supply Voltage: **Supply Current:** 15mA @ 12VDC + output load.

Connection: Integral 4 way Tyco Superseal connector.

Outputs

Current:

Resistive: Any values between 3- 500Ω or $500 - 3\Omega$ (3Ω steps)

Resolution: 3Ω ,

Max dissipation: 250mW. 1 - 20mA, 4 - 20mA,

Resolution: 20µA, Max Load: 250Ω.

Voltage: **12VDC** systems: Any Values between 0-5V & 5-0V.

24VDC system: any values between 0 -10V & 10-0V.

Resolution: 10mV,

Max Load: 10mA source (dependent on min supply voltage)

for probe lengths 300mm and above.

Voltage & Current: ±2% of probe length @ 20°C in diesel. Accuracy:

Resistance: ±2% rounded to the nearest multiple of 3

 $\pm 0.5\Omega$ is added to empty and full tolerance.

Alarm Output: Switch to ground, close on fall 12% of active length.

Max 100mA.

Accessories: C/K16 kit mating Tyco 4-way AMP 1.5 Superseal Connector

with terminals to suit wire range 0.75mm² to 1.5mm². **S/K155** Cut to length kit: End cap, spacer & calibration tool.

Construction

Probe: 316 Stainless Steel.

Wetted Materials: Nylon 66, Aluminum Alloy 6063, FVMQ, Gasket NBR N70C181.

Light Tube: Polycarbonate for LED calibration.

End Cap: Nylon 66.

Probe Length: 200 - 1100mm, 500mm and 1000mm standard cut to length

Environmental Ratings

Ingress: Sensor housing & connector IP67.

Max. Pressure: 1 Bar.

-40°C to +85°C. **Temperature Range:**

Weight: 300g (1000mm long sensor). EMC: EN ISO13766-1:2018.

Vibration: 500mm sensor type tested to 6.3grms to

BS EN 60068-2-64:2008.

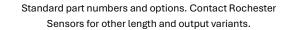
500ms-2 11ms to BS EN 60068-2-27:200. Shock:

Drop Test: 1M to concrete surface.





26.5 GASKET SUPPLIED **GAUGE PLANE** 1/2" BSPT / 1" BSPT 1/2" NPT / 1" NPT FULL POINT Superseal 1.5 Connector (282088-1) PIN 4 PIN 3 PIN 2 PIN Output Low-level n12 **EMPTY**



TYPE	THREAD	LENGTH	OUTPUT
TLL15X	Х -	XXXX -	XX -
TLL155 Resistive, Ω	N, NPT	0500, 500mm	70, 10 -180Ω
			73 , 240 - 33Ω
TLL156 Voltage, V	B, BSPT	1000, 1000mm	80, 0-5V
			81, 0.5 – 4.5V
TLL157 Current, mA			90, 4 – 20mA

Rochestersensors.com

Since the suitability of these products depends upon a wide range of factors not in our control, Rochester Sensors expects and understands that you will conduct the testing and evaluation necessary to determine that these products are suitable for your application. Whilst every effort is made to ensure the above details are correct at the time of printing. Rochester Sensors reserves the right to make materials changes and or technical changes without notice



SAE MOUNTING HOLES

ON Ø54 PCD