

## **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** 

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

Resolution:  $3\Omega$ ,

Max dissipation: 250mW.

**Current:** 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 0.75mm<sup>2</sup> to 1.5mm<sup>2</sup>. **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 10.4 GAUGE PLANE 1" BSPT / NPT Superseal 1.5 Connector (282088-1) **FULL-POINT**

Standard part numbers and options. Contact Rochester Sensors for other length and output variants.

TYPE	THREAD	LENGTH	OUTPUT
TLL15X	Х -	XXXX -	XX -
<b>TLL155</b> Resistive, $\Omega$	N, NPT	<b>0500,</b> 500mm	<b>70,</b> 10 -18Ω <b>73</b> , 240 - 330Ω
TLL156 Voltage, V TLL157 Current, mA	B, BSPT	<b>1000,</b> 1000mm	<b>80,</b> 0-5V <b>81,</b> 0.5 – 4.5V <b>90.</b> 4 – 20mA
TLL 137 Current, ma			90, 4 - 2011A



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SAE MOUNTING HOLES

ON Ø54 PCD