

TLL155 Capacitive Fuel Level Sensor. Cut-To-Length and Calibrate



The **TLL155** liquid level sensor is designed for use in diesel 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 length and magnetically calibrated by the end user.





Liquid Types	
Non-conductive F	uels: Diesel, Petrol, Kerosene, Gasolene and HVO.
Electrical	
Supply voltage:	9- 36 VDC with 80 V over protection
Supply current:	15mA @ 12 VDC + output load.
Outputs	
Resistive:	Any values between 3-500 Ω or 500-3 Ω (3 Ω Steps)
	Resolution: 3Ω
	Max dissipation: 250mW
Current:	1-20mA, 4-20mA
	Resolution: 20µA
	Max Load: 250Ω
Voltage:	12VDC system: 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:
Accuracy:	Voltage & Current: ±2% of probe length @ 20°C in diesel
	Resistance: +2% rounded up to the nearest multiple of 3
	-2% rounded down to the nearest multiple of 3
	$\pm 0.5\Omega$ is added to empty and full tolerance.
Options	Civitab to succeed along on fall at 120/ of active langth Mary
Alarm Output:	Switch to ground, close on fall at 12% of active length Max 100mA
	TOOTTA
Customer empty	Specific empty and full levels can be calibrated within the
& Full points:	allowable measurement range of the probe.
a run points.	
Connections:	Integral 4 Way Tyco Superseal connector.
Accessories:	C/K16 kit consisting of mating Tyco 4-way AMP 1.5
	Superseal Connector (282088-1), 4 x 1.5 receptacle
	terminals (183025-1) & 4 x wire seals (281934-2).

Wire range 0.75mm² to 1.5mm²

calibration magnet.

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THREAD

N, NPT

B, BSPT

Part number Example: TLL155-B-0500-70 Supplied with SAE 5-Hole Gasket.

S/K155 Cut to length kit - Nylon end cap, spacer &

XXXX

LENGTH

0500, 500mm

1000, 1000mm

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

Construction Probe:

Probe Length:

Wetted Materials: Light Tube: End Plug:

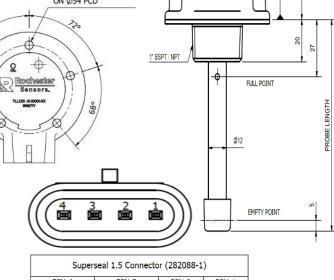
316 Stainless Steel Nylon 66, Aluminium Alloy 6063, NBR N70C181 Polycarbonate for LED calibration Nylon 66 Standard 500mm & 1000mm for cutting to length by the customer.

Environmental Ratings

	0			
Ingress:	Sensor housing & connector IP67			
Max. pressure:	1 Bar			
Temperature range:	-40°C to +85°C			
Weight:	300 g (1000mm long sensor)			
EMC:	EN ISO13766-1:2018			
Vibration:	500mm sensor type tested to 6.3grms to			
	BS EN 60068-2-64:2008			
Shock:	500ms ⁻² 11ms to BS EN 60068-2-27:2001			
Drop test	1M to concrete surface.			

5x Ø5,1 SAE MOUNTING HOLES ON Ø54 PCD

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Superseal 1.5 Connector (282088-1)				
PIN 4	PIN 3	PIN 2	PIN 1	
Output Signal	Low-level Alarm	V-	V+	

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TLL15X

TYPF

TLL155 Resistive, Ω

TLL157 Current, mA

TLL156 Voltage, V

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OUTPUT

70, 10 – 180 Ω

90, 4 - 20 mA

80. 0 – 5 V



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