

TECHNICAL DATA

FOZMULA
INNOVATION IN SENSORS

T/LL140 series fuel level sensor



The **Model T/LL140 series** is a range of highly advanced sensors for continuously measuring the contents of a fuel tank. The products include a feature whereby they can be cut to length* and be recalibrated.

Additionally, the probe has the facility to fit fuel feed and return pipes (max \varnothing 10mm) within the standard SAE 5 holes flange interface.

A low level alarm switches when the fuel drops below a predetermined level (default is 1/8th of the tank), but the alarm point can be optionally specified anywhere between 0-100%.

SPECIFICATION

Dimensions:

Probe length:

Min 200mm, Max 1100mm (Min 7.9", Max 43.3")

Note: the probe length should be determined to leave min. 25mm of space from the end of the probe to the base of the tank.

Electrical:

Supply voltage:

12 or 24Vdc nominal

Connections:

500mm long flying leads which can be optionally fitted with any specified receptacle

Supply current: 28mA@12Vdc + output load

Accuracy: \pm 2.0% of depth @ 20°C

Outputs:

Resistive:

One from: 10-180 Ω , 240-33 Ω or 3-180 Ω (Emulated resistive output)

Voltage:

Selectable: 0-5V, 5-0V or any voltage range in between these limits (ascending or descending)

Alarm:

Switch to ground at 1/8 tank depth - max load 100mA - optionally adjustable between empty and full.

Warning Output Load:

100mA max.

Construction:

Housing:

30% glass filled Nylon 66

Sensor tube:

Stainless steel 316

Internal insulators:

PTFE

Internal sensor: Aluminium

Wetted seals: PTFE & Nitrile

Fluid Types:

Diesel, biodiesel, kerosene, petrol. Not suitable for fuels with a high dielectric constant.

Environmental Ratings:

Temperature - operating:

-40°C to +85°C (-4°F to +185°F)

- storage:

-40°C to +105°C (-40°F to +221°F)

Max tank pressure:

For use in unpressurized tanks

Vibration:

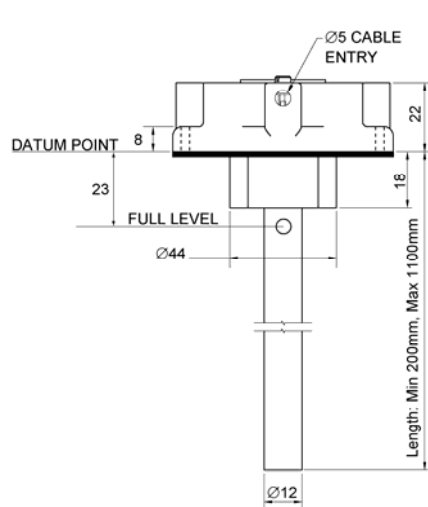
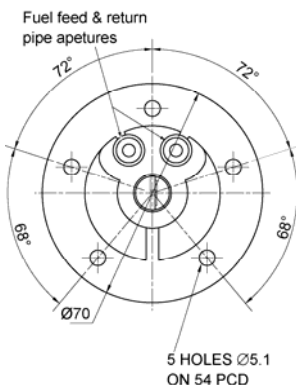
BS EN 60068-2-64:1993 (15.3grms)

Sealing: IP67

Shock: 50g 6.3ms

Weight: 300g (1M long unit)

EMC: Type approval in accordance with EN ISO 13766:2006



Model	Output
T/LL140	Resistive
T/LL141	Voltage
T/LL142	PWM

Wire colour codes:

Red: V+ (9 ~ 34V)

Green: V- (Ground)

Yellow: LLA max 100mA

Blue: Signal out (V)

Black: Signal out (Ω)

White: Calibration

* Part Number CA0482 probe length adjustment kit must be purchased if the sensor is to be cut to a different length.

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