

TMR High-Precision Continuous Liquid Level Sensors (LST101-LST112 / LS10E)

Tunnel Magnetoresistance (TMR) & AMR High-Resolution Level Sensors + Probe Level Switches

Product Overview

Misensor LST Series liquid level sensors adopt next-generation Tunnel Magnetoresistance (TMR) and Anisotropic Magnetoresistance (AMR) sensor arrays. Delivering millimeter-level resolution (1mm-3mm), ultra-low power consumption, and high immunity to temperature drift for automotive coolant, EV thermal management, fuel, and industrial tanks.

Key Features

- 1mm to 3mm ultra-high level resolution using TMR/A...
- Non-contact magnetic float sensing with zero mecha...
- Ratiometric 0.5-4.5V, PWM, LIN, CAN, or custom res...
- Available in stem lengths from 75mm up to 600mm
- Also available: T001-T016 Conductive/Capacitive Co...

Typical Applications

- New Energy Vehicle (EV/HEV) battery & motor coolan...
- Precision fuel, AdBlue & hydraulic oil level measu...
- Medical diagnostic equipment & chemical dosing res...

Technical Specifications & Model Selection

Model	Technology	Measuring Length	Resolution	Output Signal	Supply Voltage	Operating Temp
LST101-100 / 119	TMR Array	100mm / 119mm	±1.5mm	0.5-4.5V / Resista..	5.0V DC	-40°C to +105°C
LST102-305	TMR Array	305mm	±2.0mm	0.5-4.5V / PWM	5.0V / 12V DC	-40°C to +105°C
LST103-466	TMR Array	466mm	±2.0mm	0.5-4.5V / 4-20mA	5.0V / 12-24V DC	-40°C to +105°C
LST104-292	TMR Array	292mm	±2.0mm	0.5-4.5V / Resista..	5.0V DC	-40°C to +105°C
LST105-430	TMR Array	430mm	±2.0mm	0.5-4.5V / CAN	5.0V / 12V DC	-40°C to +105°C
LST106-143	TMR Array	143mm	±1.5mm	0.5-4.5V DC	5.0V DC	-40°C to +105°C
LST108-335	TMR Array	335mm	±2.0mm	0.5-4.5V DC	5.0V DC	-40°C to +105°C
LST109 / LST112	TMR Array	172mm	±1.5mm	0.5-4.5V DC	5.0V DC	-40°C to +105°C
LS10E-3A-75	AMR / Multi-Reed	75mm	Multi-Point	3-Stage Switch / V..	5V-24V DC	-40°C to +105°C
T001-T016 Probe	Coolant Probe	76mm-257mm	Point Switch	Conductive / Activ..	5V / 12V DC	-40°C to +125°C