

Liquid Level Sensor CTLS1-01

The CTLS1-01 sensor adopts the principle of capacitive sensing, offering excellent antiinterference capability and long service life. It is resistant to common adhesives and silicones, and effectively distinguishes foam interference. It is widely applicable in liquid or solid detection scenarios where DC>1.5.

Parameters

Electrical Specifications

• Supply Voltage: 12-30VDC

• Current Consumption: ≤35mA

• Output Type: NPN, open collector

• Output Current: 20mA, with short-circuit & overcurrent protection

• Output Polarity: NO (Normally Open) & NC (Normally Closed)

• Open-Circuit Voltage Drop: (-Vs+1.5V) ± 0.5V@R₁=10kΩ

Switching Current: ≤100μA

• Sampling Time: 0–10s

• Power-On Delay: <2s

• Hysteresis: ±2mm

• Repeatability: ±2mm

Insulation & Dielectric Strength

 Dielectric Strength: 500V/50HZ/1min (between output wires excluding shield and housing)



General Data

• Operating Temperature: -40°C~+85°C

• Relative Humidity: ≤98%@25°C

• Ambient Pressure: ≤100 bar

• Protection Rating: IP67

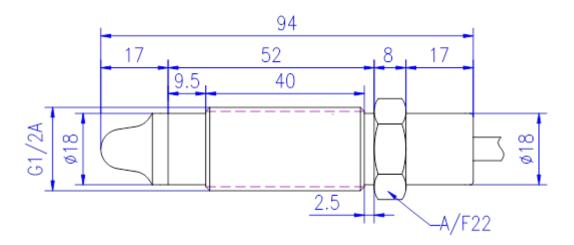
• Sensor Head Material: PEEK

• Housing Material: Stainless Steel 304

• Power Polarity Protection: Supported

• EMC Compliance: GB/T24338 National standard for rail transit equipment

Outline & Interface



• Mounting Interface: G1/2A (ISO 228/1)

• Electrical Connection: Rail-special cable 4x0.5mm² (2m)

• Wiring Configuration:

