TECHNICAL DATA SHEET – C.I. THERMOSTAT

1. General Description
Vertical-mounted magnetic level switch. It uses a float with an internal magnet that, as it moves along the shaft, activates a hermetically sealed reed switch, allowing an electrical circuit to be opened or closed.

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2. Technical Specifications

Parameter	Valor Estimado
Shaft Length	80 mm (approx. total length)
Body Material	Bronze / Brass (hexagonal body and threaded connection)
Float Material	NBR (Nitrile) or high-density PP (Polypropylene)
Contact Type	SPST (Normally Open or Normally Closed)
Switching Capacity	10W / 50W (Depending on the model)
Maximum Voltage	100V DC / 220V AC (Relay use recommended)
Maximum Current	0.5 A
Operating Temperature	-10°C a +120°C (Metal versión)
Mounting Thread	M10 o M12 (Metric Standard)

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3. Main Features
• Configurable versatility: In most of these models, the function can be switched from Normally Open (NO) to Normally Closed (NC) simply by removing the safety clip from the tip and flipping the black float.
• High resistance: Thanks to its brass body, it is more resistant to pressure and impacts than plastic sensors.
• Sealing: Includes an O-ring to prevent leaks at the threaded connection point.

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4. Common Applications
• Level control in radiator expansion tanks.
• Hydraulic oil reservoirs.
• Water monitoring systems in industrial machinery.
• Automation projects with Arduino, PLCs, or level relays.

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5. Installation Warnings

⚠ **IMPORTANT:** This sensor is designed for control signals. It must not be connected directly to a pump or high-power motor, as electrical arcing will damage the internal contact. The use of an intermediate relay or contactor is always recommended.