

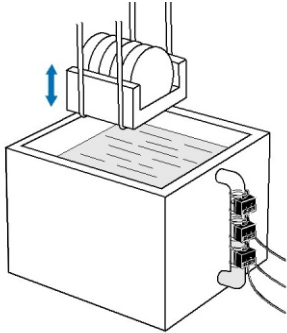
STAY-FILL

LEVEL CONTROLLER

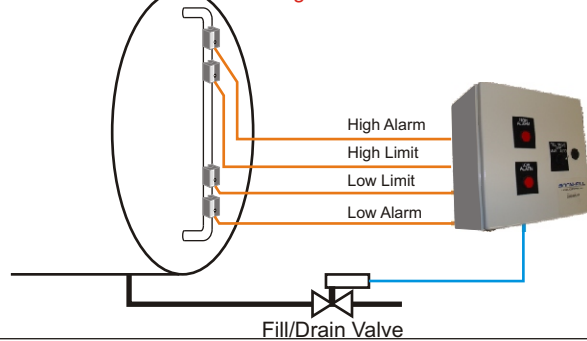


Applications

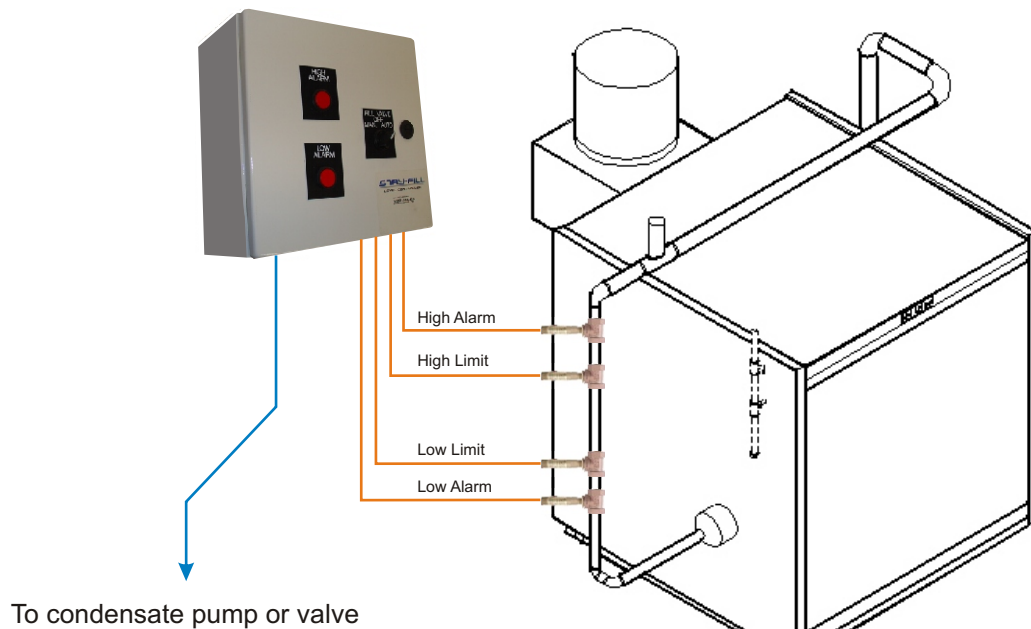
Liquid surface level detection



Cooling Tower Tank level detection & alarm



Steam Boiler Fill System



Specifications/Applications

Touchless Level Sensor

Sensor Type : Electrostatic Capacity Method

S1 sensor pipe dia.: 0.315" to 0.433" dia. gauge glass

S2 sensor pipe dia.: 0.475" to 1.02" dia. gauge glass

Max. pipe dia.: S1 - 0.039" S2 - 0.059"

Sensing object: Liquid

Sensor Working Temperature: 32°F to 130°F, 0°C to 55°C

Sensor Isolation Resistance: 50 MΩ @ 500 VDC between case and energized parts

Sensor Dielectric Strength: 500 VAC 50/60 Hz for 1 min between case and energized parts

Sensor shock resistance: 500 m/s² for 3 times each X, Y, and Z directions

Sensor Protective Structure: IEC 60529 IP66

Steam Boiler Level Sensor

Service: Liquids compatible with wetted materials.

Float: 304 SS.

Lower Body: Brass or 303 SS.

Magnet: Ceramic.

External Float Chamber (Tee): Matches lower body choice of brass or 303 SS.

Other: Lever Arm, Spring, Pin, etc.: 301 SS.

Temperature Limits: -4 to 220°F (-20 to 105°C) standard, MT high temperature option 400°F (205°C), (MT option not UL, CSA or ATEX). ATEX compliant AT option ambient temperature: -4 to 167°F (-20 to 75°C) process temperature: -4 to 220°F (-20 to 105°C).

Pressure Limits: 200 psi. to 1000 psi.

Enclosure Rating: Weatherproof and explosion-proof. Listed with UL and CSA for Class I, Groups A, B, C and D; Class II, Groups E, F, and G. (Group A on stainless steel body models only.) ATEX 0344 II 2 G EEx d IIC T6 Process Temp≤75°C. EC-Type Certificate No: KEMA 04ATEX2128.

Switch Type: SPDT snap switch standard, DPDT snap switch optional.

Electrical Rating: UL models: 5A @ 125/250 VAC. CSA and ATEX models: 5A @ 125/250 VAC; 5A res., 3A ind. @ 30 VDC. MV option: 0.1A @ 125 VAC MT option: 5A @ 125/250 VAC. (MT option not UL, CSA or ATEX.)

Electrical Connections: UL models: 18 AWG, 18" (460 mm) long. CSA and ATEX models: terminal block.

Upper Body: Brass or 303 SS

Conduit Connection: 3/4" male NPT standard

Process Connection: 1" male NPT

Mounting Orientation: Horizontal with index arrow pointing direction of flow.

Weight: Approximately 1 lb (.5 kg)

Agency Approvals: UL, CSA, CE and ATEX.

Stand-a-lone Level Controller

Voltage: 120 VAC

Power: 100 watts less/fill valve

Alarm Output: High/Low Red pilot light, with SPDT 10 amp dry contacts for external systems

High Level Output: SPDT 10 amp contacts

Low Level Output: SPDT 10 amp contacts

Controller Enclosure: NEMA 12, Hinged cover w/screwdriver lock, epoxy finish

Rating: UL 508A Industrial Control Panel

Option

Fill and/or Drain valves: 1/2" to 12" slow action control valves, 24 vac to 240 vac

Sensors: Touchless sensors or Float sensors

Communications Protocol: Bacnet ready controller

Ordering Information

LCS-1T: Stand alone industrial controller w/touchless sensors

LCS-1F: Stand alone industrial controller w/float sensors

LCB-1T: Bacnet industrial controller w/touchless sensors

LCB-1F: Bacnet industrial controller w/float sensors