

The Pointek CLS 200 provides accurate, reliable level detection in applications with liquids, solids, slurries and interfaces.

The unique design provides a high level of chemical and physical resistance, as well as reliable signal detection. It operates independently of the tank wall or pipe so it does not require an external reference electrode for level detection in a non-conductive vessel such as concrete or plastic.

The power supply is galvanically isolated and accepts a wide range of voltages (12-250 Vac/dc). The stainless steel and PVDF materials used in the probe construction provide a high level of chemical resistance and a temperature rating up to 125°C/257°F on the process wetted portion of the probe. The switch responds to any materials with a dielectric constant of 1.5 or more by detecting a change in oscillating frequency, and it can be set to detect before contact or on contact with the probe.

Modular design and construction provides a wide choice of configurations, including rod, cable and sanitary versions. When used with a SensGuard protection cover, it is protected from shearing, impact and abrasion in tough primary processes.



Product Features

- Potted construction protects signal circuit from shock, vibration, humidity and/or condensation
- High chemical resistance
- Level detection independent of tank wall/pipe
- High/low gain switch covers wide range of applications/materials
- 3 LED indicators for adjustment control, output status and power
- Rigid, cable and sanitary versions available
- Easy installation and maintenance

Technical Specifications

Electrical

Power

- 12 - 250 Vac/dc
- 50/60 Hz
- 2 VA / 2 W maximum

Alarm

- relay: 1 form 'C' (SPDT) contact, rated 8 A at 250 Vac / 5 A at 30 Vdc, non-inductive
- solid state switch: rated 250 V ac / 300 V dc, 100 mA or 2 VA max.
- time delay: 'on/off alarm' selectable, 1 to 60 s adjustable
- hysteresis: 2 mm (0.08")
- repeatability: 2 mm (0.08")
- fail-safe operation (high or low)

Mechanical

Electronics/Enclosure

- termination: removable terminal block, 2.5 mm² max.
- construction:
 - epoxy coated aluminium with gasket
 - optional thermal isolator, 316 stainless steel
- ingress protection: Type 4X / NEMA 4X / IP65
- electrical: 2 x 1/2" NPT conduit entry

Environmental

- location: indoor/outdoor
- altitude: 2000 m max.
- ambient temperature: -40 to 85°C (-40 to 185°F)
- relative humidity: suitable for outdoor
- installation category: II
- pollution degree: 4

Process

- dielectric constant (ϵ_r): 1.5 min.
- temperature: -40 to 125°C (-40 to 257°F)
- pressure: standard and rigid extension versions 0 to 25 bar / 365 p.s.i. / 2500 kPa gauge (nominal)
- cable version 0 to 10 bar / 150 p.s.i. / 1000 kPa gauge (nominal)

Approvals

- CE, CSA_{NRTL/C} FM, CENELEC, 3A

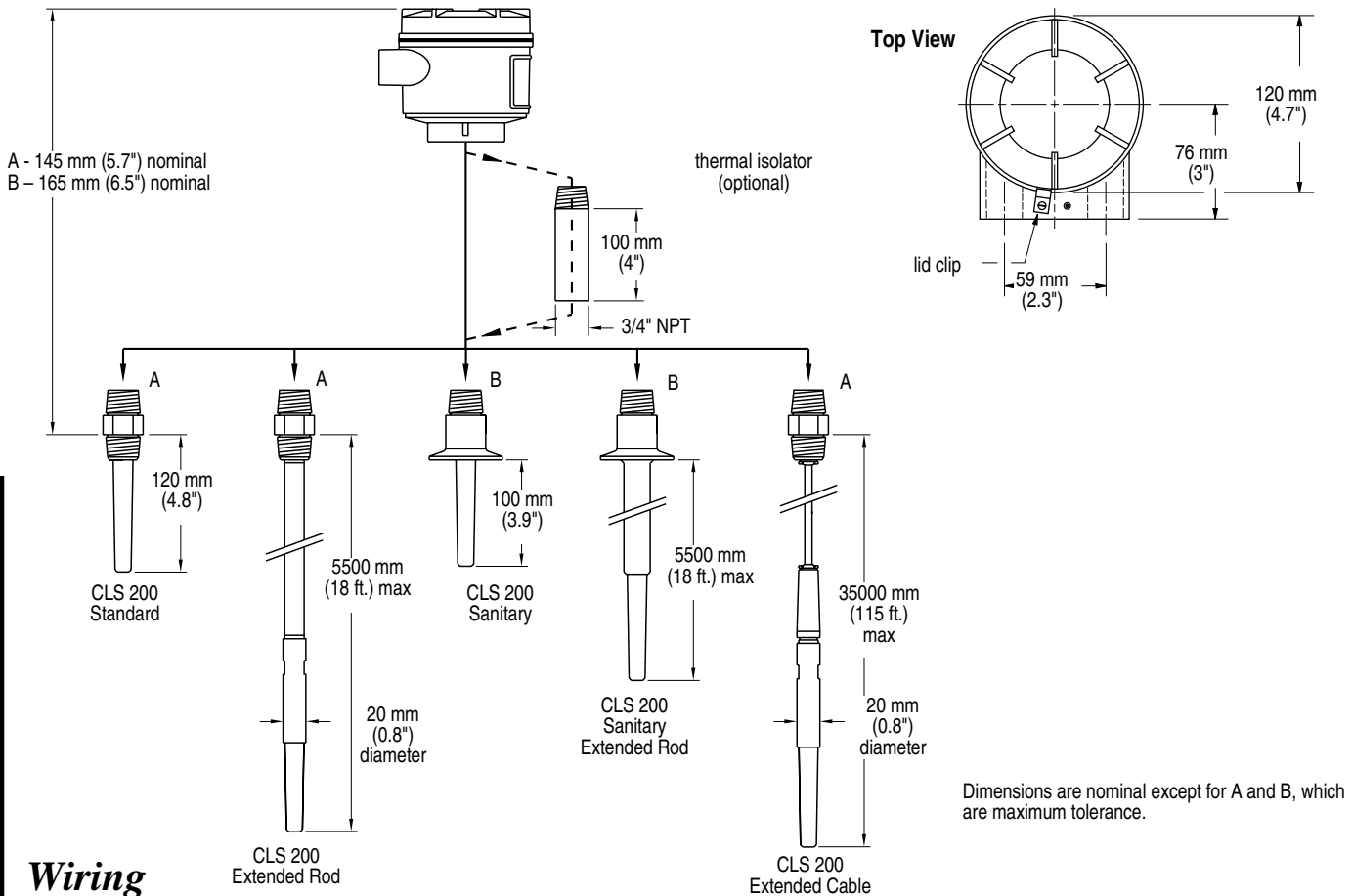
	STANDARD	SANITARY	CABLE
Length, Max.	5.5 m	5.5 m	35 m
Mounting	¾", 1", 1¼", 1½" BSPT/NPT/JIS 316 stainless steel	1 1/2" / 2" 3A compliant Tri-clamp	¾", 1", 1¼", 1½" BSPT/NPT/JIS 316 stainless steel
Extension	316 stainless steel	316 stainless steel	cable (stainless steel) with Kynar® coating
Sensor	Kynar®	Kynar®	Kynar®
Thermal Isolator	Yes	Yes	Yes
Extension	Yes	Yes	cable extension

*EMC performance available upon request.

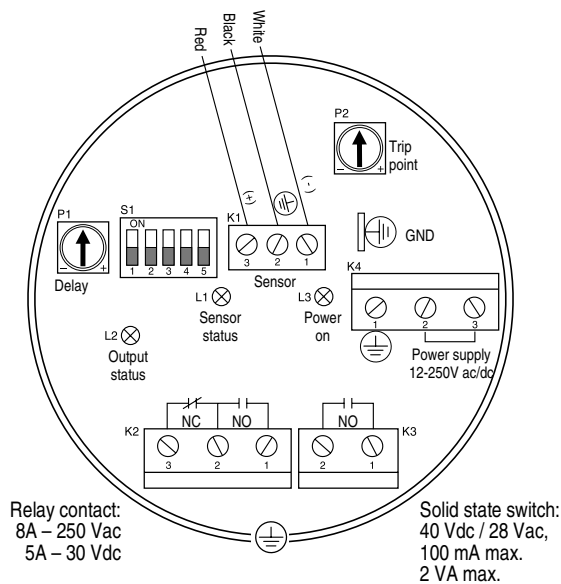
Specifications are subject to change without notice.

Pointek CLS 200

Dimensions



Wiring



Notes:

- Identification label is on underside of lid. Switch and potentiometer settings are for illustration purposes only. (Refer to Operation/Setup in Manual)
- All field wiring must have insulation suitable for at least 250 V.
- Relay contact terminals are for use with equipment having no accessible live parts and wiring having insulation suitable for at least 250 V.
- Maximum working voltage between adjacent relay contacts shall be 250V.
- Refer to the Instruction Manual or contact a Milltronics representative for detailed wiring information.



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