

The Pointek CLS 100 is a point-level switch offering reliable performance at a competitive price. Its compact size and short insertion length of 100 mm (4") makes it ideal for use in constricted spaces.

This sensitive, 2-wire probe detects high or low levels in solids, liquids, slurries, interfaces and foam. Its versatility in various applications and in vessels or pipes makes it a good replacement for paddle switches, vibrating switches or traditional capacitance sensors.

Its advanced tip-sensing technology provides accurate, repeatable switchpoint performance. The PVDF/Kynar probe is chemically resistant with an effective process operating temperature range from -40 to 110°C. (-40 to 230°F). The fully potted design ensures reliability in a vibrating environment such as agitating tanks up to 4 g. When used with a SensGuard protection cover, it is protected from shearing, impact and abrasion in tough primary processes.



Product Features

- Easy installation with verification by built-in LED
- Low maintenance with no moving parts
- Sensitivity adjustment
- Stainless steel integrated cable or ABS enclosure versions available
- Intrinsically safe, dust-ignition-proof and general purpose models available

Technical Specifications

Electrical/Instrument

Power

- standard: 10 - 33 Vdc
- intrinsically safe: 10 - 30 Vdc

Alarm Output

- mA: 4/20 mA loop or 20/4 mA 2 wire loop
- solid state switch:
 - standard: 40 Vdc / 28 Vac, 100 mA max., 2 VA max.
 - intrinsically safe: 30 Vdc
- repeatability: 2 mm (0.08")
- mode: high or low

Mechanical

- common: probe / wetted, 316 stainless steel process connection and Kynar sensor
- cable version:
 - body / housing, 316 stainless steel
 - process connection, ¾" NPT or 1" BSPT
 - 1 m (3.3 ft.) of 4 conductor, 22 AWG, shielded, polyester jacket
- enclosure version:
 - body: impact proof ABS
 - lid: transparent ABS
 - internal 5-point terminal block
 - ½" NPT wiring entrance (PG 13.5 on special order)

Environmental

- location: indoor/outdoor
- altitude: 2000 m max.
- ambient temperature: -40 to 85°C (-40 to 185°F)
- ingress protection: Type 4X / NEMA 4X / IP65
- installation category: II
- pollution degree: 4

Process

- dielectric constant (ϵ_r): 1.5 min
- temperature -40 to 110 °C (-40 to 230 °F)
- pressure (vessel) 0 absolute to 1000 kPa (10 bar or 146 psi) gauge, nominal

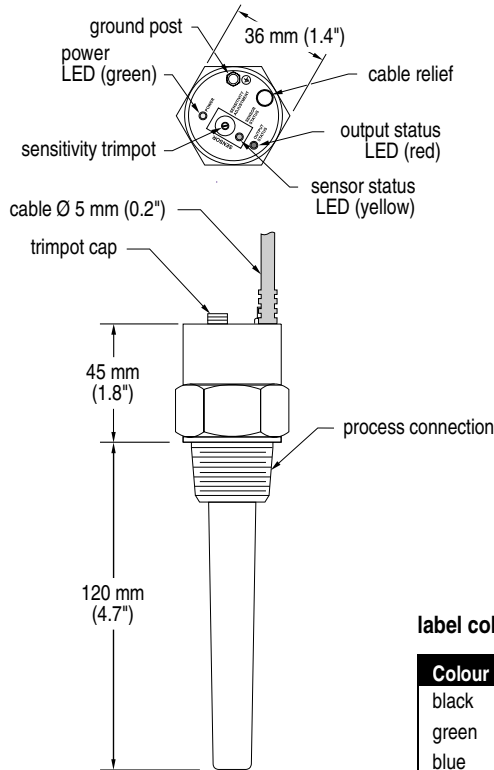
Approvals

- cable version: CSA, CENELEC, FM, KEMA
- enclosure version: CSA, CENELEC, FM, KEMA

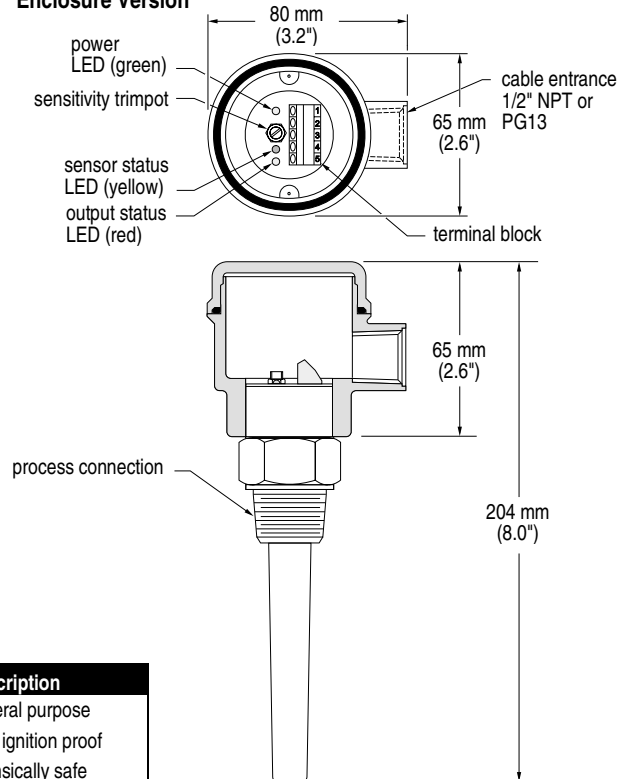
Pointek CLS 100

Dimensions

Cable Version



Enclosure Version



label colours

Colour	Description
black	general purpose
green	dust ignition proof
blue	intrinsically safe

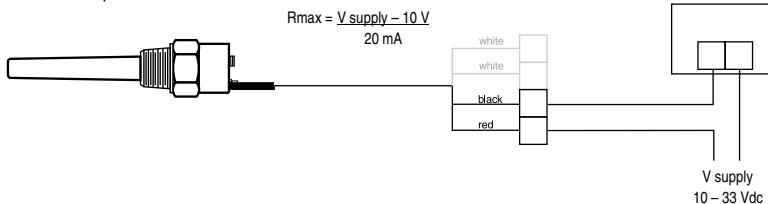
Wiring

Standard Version – Non Intrinsically Safe

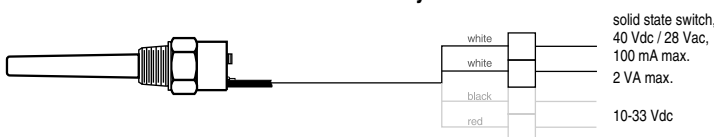
LOW/HIGH Alarm



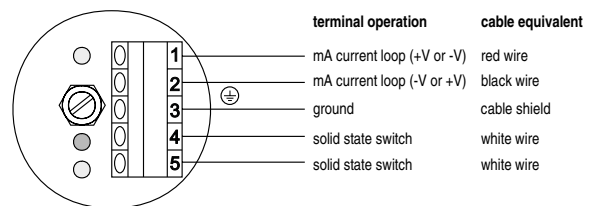
4/20 mA Loop Alarm



Solid Switch State Version – Non Intrinsically Safe



Enclosure Version



Australia	Tel.: +61 3-9695-2400	Fax: +61 3-9695-2450
Belgium	Tel.: +32(0)3326 45 54	Fax: +32(0)3326 05 25
Canada	Tel.: +1 705-745-2431	Fax: +1 705-741-0466
France	Tel.: +33 4 42 65 69 00	Fax: +33 4 42 58 63 95
Germany	Tel.: +49 721 595 4607	Fax: +49 721 595 4937
Hong Kong	Tel.: +85 2-2856-3166	Fax: +85 2-2856-2962
Mexico	Tel.: +52 5 575-27-28	Fax: +52 5 575-26-86
The Netherlands	Tel.: +31(0)76 542 7 542	Fax: +31(0)76 542 8 542
Switzerland	Tel.: +41 21 791 58 28	Fax: +41 21 791 58 40
United Kingdom	Tel.: +44 1905-450500	Fax: +44 1905-450501
United States	Tel.: +1 817-277-3543	Fax: +1 817-277-3894

www.milltronics.com