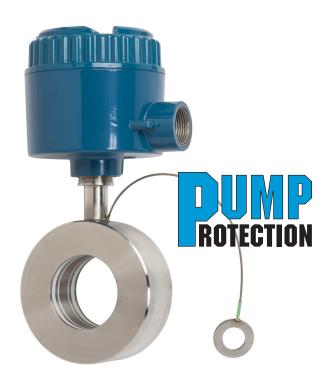


DATA SHEET

DREXELBROOK®

Clear Line™ In-Line Fluid Detector



No Maintenance

Cote-Shield[™] circuitry ensures dependable detection regardless of conductive coatings or product build-up on the sensor.

Easy to Install

The wafer style sensing element mounts directly into existing pipelines between two standard 150-lb. flat or raised-faced flanges.

Simple Operation

Factory calibrated. No need for field adjustments, even with variations in product temperature, density or conductivity. No routine maintenance required.

Low Level/Interface Detection

The Drexelbrook Clear Line In-Line Fluid Detector is ideally suited for empty pipe and tank applications in hydrocarbon, pharmaceutical, chemical, and food processing facilities. This reliable instrument monitors the presence or absence of fluid in a pipe for complete assurance that the tank is empty. It can also be used for interface detection to accurately determine when material changes from one phase to another. This is especially useful in processes involving materials separation.

Perfect for Shear-Sensitive Products

The ultra-smooth surface of the Clear Line is ideal for shear-sensitive products. Easily mounted between flat-faced flanges the Clear Line does not interfere with product flow in any way.

No Recalibration Required

Each Clear Line detector is factory-calibrated to provide reliable, repeatable performance regardless of changes in process fluids and coatings, or variations in temperature, conductivity, and density. It works without recalibration on processes where fluids can vary from organics to caustics.

Electronic Options

Drexelbrook offers two remote-mounted electronics options for the Clear Line In-Line Fluid Detector.

- For applications with low to moderate coating conditions and requiring Hazardous Location Approvals, use RXX (Intellipoint[™]) electronics.
- For applications with heavy coating conditions but do not require approvals, use Super Cote-Shield[™] electronics.
- Consult factory for additional options.

DREXELBROOK WWW.Drexelbrook.com

Clear Line™ In-Line Fluid Detector

Specifications

Electronics

Power requirement:

 120 ± 25 Vac, 50/60 Hz, 1 watt 240 \pm 50 Vac, 50/60 Hz, 1 watt (optional) 12-30 Vdc 1 watt (optional)

Ambient temperature: -40°F to 140°F (-40°C to 60°C)

Level Output: DPDT relay

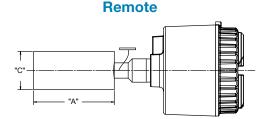
Contact Rating:

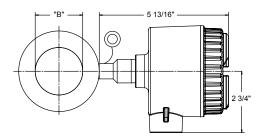
120 Vac; 5A non-inductive, 3 A inductive 230 Vac; 5A non-inductive, 2 A inductive 24 Vdc; 5A non-inductive Min. Rating 100mA / 12VDC

Time Delay:

Adjustable 0-120 sec, for pump start/stop.

Dimensions





Pipe Size	0.D. "A"	I.D. "B"	Width "C"
2	3.63" (92mm)	2.14" (54mm)	1.69" (43mm)
3	5.00" (127mm)	3.15" (80mm)	2.13" (54mm)
4	6.19" (157mm)	4.12" (105mm)	2.38" (61mm)
6	8.50" (216mm)	6.20" (158mm)	2.94" (75mm)

Fail-safe

Empty-pipe fail-safe (factory set); relay will deenergize, indicating empty pipe upon loss of power.

RFI Protection (built in):

The operating point for unit in housing is unaffected by 5W field @ 27 MHz, 150 MHz, or 450 MHz at a distance of 5 ft. from exposed sensor, cable, or power line.

Sensor

Process Temperature and Pressure: 250°F @ 100 PSI (121°C @ 7 bar)

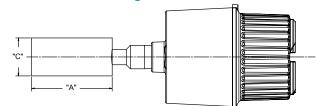
Material Compatibility:

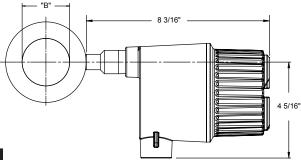
Process-wetted parts: 316L SS & TFE

Mounting - VERTICAL ONLY:

Sensor must be mounted in a vertical run of pipe or sloping pipe run to provide material drainage

Integral





- Wafer style sensing element mates with ANSI 150 lb flanges in nominal pipe sizes as noted.
- "B" dimension is slightly larger than schedule 40 nominal pipe I.D.

EDO# 6-16-108 Issue 9

Phone: +1 215-674-1234 • Fax: +1 215-674-2731

E-mail: drexelbrook.info@ametek.com



205 Keith Valley Road | Horsham PA 19044 U.S.A.