

ProScan™ In-Line Process Sensor



Ideal for for detection of product transitions, monitoring turbidity and measuring product concentrations, such as in dairy processing, brewing and juice processing.

Features:

Utilizing advanced optical and microprocessor technology, ProScan™ produces a linearized 4-20 mA output that can be tailored to a wide range of applications. The sensor attaches directly to the process line and allows real-time, in-line analysis of fluid streams. The sapphire lens and 316 stainless steel construction will withstand the high temperatures, rapid temperature fluctuations and chemical agents typical in food and pharmaceutical processes. The simple design allows plant personnel to install, tune and maintain it with ease.

ProScan can be installed virtually anywhere in the production or waste stream where it is important to detect process interfaces, monitor turbidity or measure product concentrations. In pasteurizer lines, a popular installation site is downstream of the HTST.

Uses:

The ProScan signal can be used to switch valves and direct the liquid stream to the filler, recirculate it or divert to drain. ProScan is also a valuable tool to control CIP pre-rinse cycles and maximize product recovery. The simple NIR sensor helps processors recover as much product as possible before initiating cleaning and helps to ensure expensive chemicals are added at the appropriate time. In addition, ProScan can act as an excellent monitor of BOD loading on waste lines. From receiving lines and pasteurizing lines to filling lines and waste lines, ProScan offers an economical solution to your process control needs.

Benefits:

HIGHLY ACCURATE

The ProScan sensor utilizes NIR technology to accurately and instantly detect product transitions, monitor turbidity and measure product concentrations at all stages of your liquid process.

NON-INTRUSIVE MONITORING

Utilizing advanced optical technology, ProScan sends a beam of light into the process and measures the backscatter. The intensity of this scatter is proportional to solids concentration.

IMPROVED AUTOMATION

ProScan acts as an eye in your process to allow real-time process control and help improved product quality, productivity and ROI.

3-A SANITARY

ProScan™ is registered with 3-A sanitary standards.



Technical Specifications:

- **Output:** 4-20 mA
- **Power Consumption:** 0.45 Watts
- **Supply Voltage:** 15-24 VDC
- **Certification:** 3-A Sanitary Standards
- **Housing:** NEMA 6/ IP67 enclosure
- **Optical Lens:** Sapphire
- **Lens Seal:** FDA approved silicone rubber
- **Process Connections:** 1-1/2", 2", 2-1/2", 3" Sanitary Clamp
- **Temperature Rating:**
32-212°F (0-100°C) - constant
32-300°F (0-149°C) - intermittent
- **Body & Connector:** 316L stainless steel

Typical ProScan Response with Fluid Milk Products

