

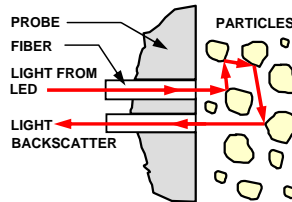
## **FiberView<sup>®</sup> Transition Sensor**

- ❖ **Reduces plant losses and increases yield and profit**
- ❖ **Reduces effluent BOD**
- ❖ **Precisely detects transitions in piping systems**
- ❖ **High Sensitivity: full scale with 10% milk in water**
- ❖ **Robust Stainless Steel (316) construction**
- ❖ **Infrared LED (880 nm)**
- ❖ **Easy calibration**
- ❖ **3-A Compliant**

Obtain less milk loss, reduced product shrink, lower costs, higher yields, and higher profits with the FiberView Transition sensor. It precisely detects transitions by measuring light backscatter from solid particles or fat globules using miniature optical fibers. It offers a large sensitivity range, high resolution and low noise that provide flexibility for special applications. It can be used as a transition sensor or for monitoring process streams.

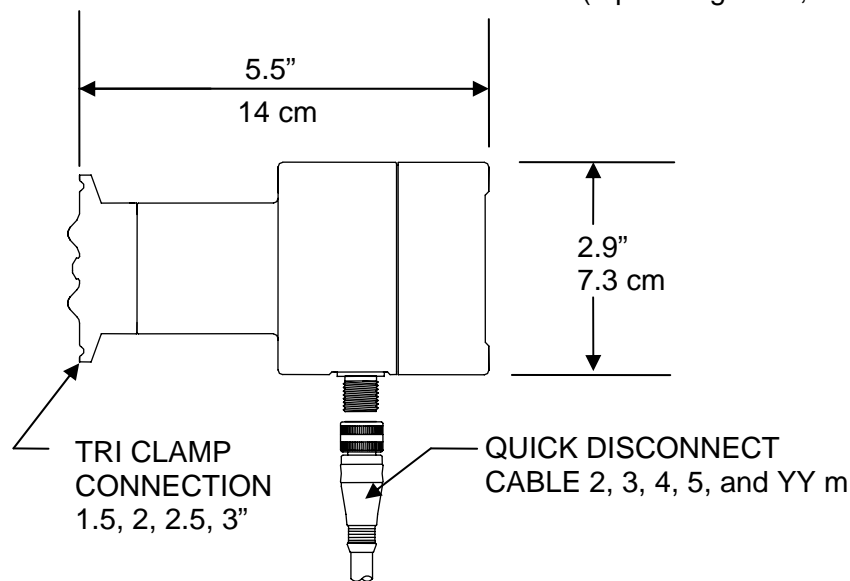
Applications include detecting transitions, detecting product changes, detecting heat exchanger leaks, monitoring product solids or changes in homogenization, coagulation etc. The 880 nm infrared light is particularly sensitive to milk fat. The housing design is robust, water tight and available in four Tri Clamp sizes. The benefits of minimizing product losses or maintain product consistency yields a short pay-back time.

See the Reflectronics web site for more details.



# FiberView® Technical Specifications

- ❖ Standard Compliance: NEMA 4X (water tight, corrosion resistant);  
CE Mark Verified Class A under EN 61326-1  
CE Mark Safety EN 61010-1  
3A Sanitary Standard 46-03
- ❖ Sensor O-Ring: EPDM (ethylene propylene rubber)
- ❖ Sensor housing: 316 SS
- ❖ Optical Fibers: Silica
- ❖ Fiber attachment: Gold soldered
- ❖ LED wavelength: 880 nm standard ( 470 nm optional)
- ❖ Output signal: 4-20 mA with analog zero and span calibration
- ❖ Cable: Quick disconnect, water tight
- ❖ Operating Temperature Limits: Head, 60 °C; Probe, 100 °C
- ❖ Connections: 1.5, 2, 2.5, and 3" Tri-Clamp
- ❖ Power Supply: 10 to 27 VDC, 100 mA max., low noise.
- ❖ Signal/Noise Ratio: > 1300 @ 4mA
- ❖ High Detection Sensitivity: Full scale for 0 to 10% milk (1% solids) in water
- ❖ Serial and Model Number: Etched onto SS (# plus mfg. date; 123-123104)



## Specifying a FiberView sensor for ordering:

### FV-X-YY where:

X = Tri Clamp Connection size: A (1.5"), B (2.0"), C (2.5") or D (3.0")

YY = Quick disconnect cable length: 02, 03, 04 and 05 m are standard. Longer lengths, YY, are special order.

For example, FV-B- 05 has a 2"Tri Clamp connector and 5 m cable.