

871TS Food and Beverage Inductive Proximity Sensor

Resistant to frequent high-pressure washdowns, harsh cleaning agents, and severe temperatures

Features

- 4-wire operation (complementary normally open and normally closed outputs)
- Gold-plated 4-pin micro quick disconnect
- 10-30V DC operation
- Standard and extended sensing ranges
- IP67, IP68, and IP69K enclosure ratings
- Stainless steel 316L barrel, either threaded or smooth
- FDA certified, PPS sensing face
- Extended temperature rating, -40°C to 80°C (-40°F to 176°F)
- Short circuit, false pulse, reverse polarity, overload and transient noise protection
- cULus listed and CE Marked for all applicable derivatives
- Laser etched part number
- ECOLAB and Johnson Diversey Certified

Benefits

- Designed specifically for food and beverage applications
- Withstands harsh cleansing and exposure to disinfecting agents
- Superior corrosion resistance
- Laser etched part number to withstand high pressure washdown



The Allen Bradley 871TS Food and Beverage Inductive Proximity sensors from Rockwell Automation are designed to address the most demanding applications in the food and beverage industry. These sensors withstand high pressure and high temperature washdown while offering superior resistance to corrosion and damage caused by harsh cleansing agents.

Rugged, Reliable Detection

These Allen Bradley 871TS sensors incorporate a Stainless Steel 316L barrel and a PPS (FDA Certified) plastic face to provide superior chemical and corrosion resistance. They meet NEMA 1, 2, 3, 3R, 4X, 6, 6P, 12, 13 and IP67, IP68, and IP69K enclosure standards. IP69K testing replicates the steam cleaning process typically used in the food and beverage industry. This testing requires the sensors to withstand spray pressures up to 1,450 psi and temperatures up to 176°F (80°C).

ECOLAB Certified

ECOLAB is a worldwide leader in the development of cleaning and sanitizing products. With their expertise in the food and beverage industries ECOLAB is well positioned to evaluate the performance of sensors when subjected to typically acidic and alkaline cleaning and disinfecting chemicals.

The 871TS Sensors have been subjected to rigorous chemical compatibility testing by ECOLAB and have been certified that they are compatible with some of the most commonly used caustic cleaning agents and disinfectants.

LISTEN.
THINK.
SOLVE.

General Ordering Information

Standard Sensing

| Barrel Diameter | Barrel Type | Sensing Distance | Mouting | Connections | Output Configuration | Catalog Number |
|-----------------|-------------|------------------|------------|---------------------|----------------------|-----------------|
| 12mm | Threaded | 2 mm | Shielded | Micro QD Connection | NPN | 871TS-D2BN12-D4 |
| | | | Unshielded | | PNP | 871TS-D2BP12-D4 |
| | | 4 mm | Shielded | | NPN | 871TS-D4BN12-D4 |
| | | | Unshielded | | PNP | 871TS-D4BP12-D4 |
| 18mm | Threaded | 5 mm | Shielded | | NPN | 871TS-D5BN18-D4 |
| | | | Unshielded | | PNP | 871TS-D5BP18-D4 |
| | | 8 mm | Shielded | | NPN | 871TS-D8BN18-D4 |
| | | | Unshielded | | PNP | 871TS-D8BP18-D4 |
| | Smooth | 8 mm | Shielded | PNP | 871TS-MM8BP18-D4 | |

Extended Sensing

| Barrel Diameter | Barrel Type | Sensing Distance | Mouting | Connections | Output Configuration | Catalog Number |
|-----------------|-------------|------------------|------------|---------------------|----------------------|------------------|
| 12mm | Threaded | 4 mm | Shielded | Micro QD Connection | NPN | 871TS-M4BN12-D4 |
| | | | Unshielded | | PNP | 871TS-M4BP12-D4 |
| | | 8 mm | Shielded | | NPN | 871TS-N8BN12-D4 |
| | | | Unshielded | | PNP | 871TS-N8BP12-D4 |
| 18mm | Threaded | 8 mm | Shielded | | NPN | 871TS-M8BN18-D4 |
| | | | Unshielded | | PNP | 871TS-M8BP18-D4 |
| | | 12 mm | Shielded | | NPN | 871TS-N12BN18-D4 |
| | | | Unshielded | | PNP | 871TS-N12BP18-D4 |
| | Smooth | 12 mm | Unshielded | PNP | 871TS-NM12BP18-D4 | |

Note: Refer to Sensor Catalog for mounting brackets for threaded barrel sensors. For smooth barrel 18 mm diameter sensors use clamping bracket 60-BCS-18B.

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