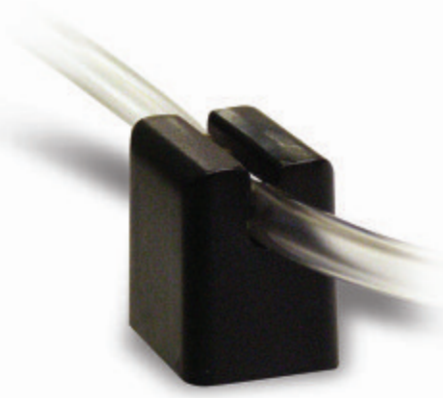


**The Introtek Advantage** provides products of unsurpassed quality, functionality, and dependability that are manufactured to the highest standards and supported with a three-year warranty

## PRO Occlusion Detector

*A passive, non-invasive free-entry sensor designed to detect occlusion in soft tubing, and produce a corresponding output signal for medical, laboratory, pharmaceutical, and packaging applications.*

### INTROTEK CERTIFICATIONS



The Introtek Occlusion Detector (*PRO*) was developed as a result of the steadily growing interest from the global community of medical device manufacturers. The PRO Detector presents customers a solution to accurately monitor tubing occlusion in the form of a non-invasive, free-entry, maintenance-free sensor.

### TECHNOLOGY

The PRO Occlusion Detector was designed to detect subtle changes in air and liquid pressure in soft tubing and produce a corresponding passive resistive output signal.

### HIGHLIGHTS

- Designed to detect an occlusion event in soft tubing.
- Non-invasive and compact with a durable housing resulting in an inexpensive component of superior quality
- Versatile output signal corresponds to tubing occlusion
- Simple uni-body construction with no moving parts
- Factory-calibrated and maintenance-free

### APPLICATIONS

- When tubing within an application becomes blocked (occluded), the result is pressure within the tube. Variations in tubing pressure is detected using a passive resistive output non-invasively with the free-entry PRO Occlusion Detector. This type of detection is considered critical in improving processes for various applications.

Applications the PRO detector can be utilized include:

- Medical devices
- Clinical laboratories
- Pharmaceutical manufacturing
- Automated packaging

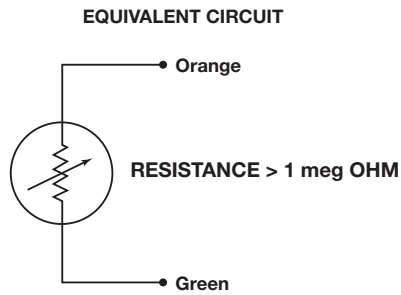
# PRO Occlusion Detector

## SENSOR PART NUMBER

Please contact an Introtek Application Specialist to determine the optimal configuration for your application.

## FUNCTIONAL SPECIFICATIONS

### Passive Resistive Output

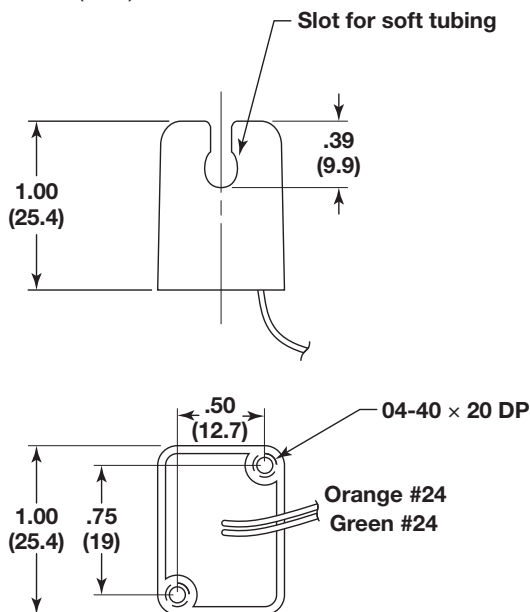


**Operating Temperature:**  
+41° to +140° F (+5° to +60° C)

**Humidity:**  
0% to 95% Non-Condensing

## DIMENSIONS

inches (mm)



## VALIDATION TESTING

The Occlusion Detector was designed to be tested in conjunction with the following specifications:

**Electrical Fast Transients:**

IEC 61000-4-4:2004

**Radiated Emissions, Group 1, Class B:**

CISPR 11

**Electrostatic Discharge:**

IEC 61000-4-2:2002

**Radiated Immunity:**

IEC 61000-4-3:2002

**Power Frequency Magnetic Fields:**

Performed per IEC 60601-1-2:2004

**General Safety Requirements:**

IEC 60601-1:1988

## THREE-YEAR WARRANTY

All **Introtek** systems are warranted free of defects in materials or workmanship for three full years from the date of original factory shipment.

If returned within the warranty period and upon factory inspection of the unit, if the cause of the malfunction is determined to be defective material or workmanship, **Introtek** will repair or replace the system.

Introtek shall not be liable for misapplication, labor claims, direct or consequential damage or expense arising from the installation or use of the equipment. There are no other warranties expressed or implied.



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Performance specifications are effective with date of issue and are subject to change without notice

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**SUPERSEDES: February 2009**