INTROTEK®
Excellence In Ultrasonic Technology℠

Excellence in Ultrasonic Technology

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 / Pressure-Occlusion Detector

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

INTROTEK's
CERTIFICATIONS

TÜV MANAGEMENT SERVICE ISO 9001

TÜV PRODUCT SERVICE ISO 13485

HIGHLIGHTS

- Designed to accommodate a wide range of positive and negative pressure in soft tubing as a result from an occlusion event.
- Non-invasive and compact with a durable housing resulting in an inexpensive component of superior quality.
- Versatile output signal corresponds to tubing pressure.
- Simple uni-body construction with no moving parts
- Factory-calibrated and maintenance-free

Introtek's Pressure-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 Pressure-Occlusion Detector *(PRO)* was designed to detect subtle changes in positive and negative air pressure in soft tubing and produce a corresponding passive resistive output signal.

APPLICATIONS

- When tubing within an application becomes blocked (occluded), the result is pressure within the tube. The slightest variation in tubing pressure is detected using a passive resistive output non-invasively with the free-entry Pressure-Occlusion (*PRO*) Detector. This type of detection is considered extremely critical for saving lives and improving processes.

Applications the PRO detector can be utilized include:

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

PRO / Pressure-Occlusion Detector

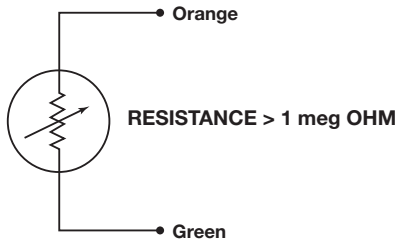
SENSOR PART NUMBER

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

FUNCTIONAL SPECIFICATIONS

Passive Resistive Output

EQUIVALENT CIRCUIT

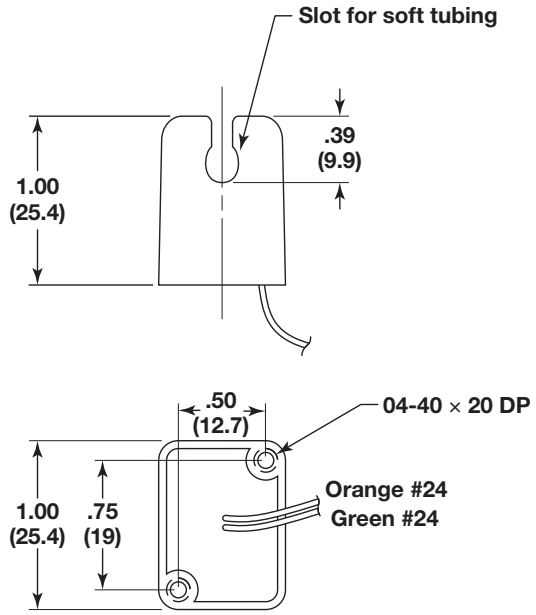


Operating Temperature:
+41° to +140° F (+5° to +60° C)

Humidity:
0% to 95% Non-Condensing

DIMENSIONS

inches (mm)



VALIDATION TESTING

The Pressure-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, the cause of the malfunction is determined to be defective material or workmanship; then, Introtek will repair or replace the system at no cost to the purchaser (or owner) other than transportation.

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, except special written warranties covering some Introtek products.

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

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