

3M™ Detcon™ Model IR-522

Non-dispersive Infrared Optical Combustible gas sensor

Description

Detcon Model IR-522 sensors are non-intrusive “Smart” sensors designed to detect and monitor Combustible Hydrocarbons over the range of 0-100% LEL (lower explosive limit). The sensor assembly consists of a miniature infrared optical sensor in a stainless steel housing that includes a splashguard with integral calport, a plug-in control transmitter circuit, a base connector board and an explosion proof enclosure.

Features

- CSA and UL Approved: Class I, Division 1, Groups B, C, & D
- Simple menu driven calibration - takes less than 3 minutes
- Backlit LCD and LED indicators for FAULT and CAL status
- Unique miniature field-replaceable optical sensor
- Plug-in field-replaceable transmitter
- Low power consumption
- 5-year expected sensor life



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Combustible Gas Sensor

System Specifications

Sensor Type

Non-dispersive Infrared Optical (NDIR)

Measurement Range

0-100% (lower explosive limit) LEL

Accuracy/Repeatability

±3% full scale 0-50% LEL

±5% full scale 50-100% LEL

Response/Clearing Time

T90 <30 seconds

Zero Drift

<5% per year

Operating Temperature Range

-40°C to +40°C; -40°F to 104°F (CANADA)

-25°C to +40°C; -13°F to 104°F (USA)

Operating Humidity Range

0-99% RH non-condensing

Outputs

Linear 4-20 mA DC

Input Voltage

11.5-28 VDC

Power Consumption

<2 watts @ 24 VDC

Electrical Classification

Explosion proof

Class I, Division 1, Groups B, C, D

Safety Approvals

CSA/NRTL (US OSHA Certified)

Ingress Protection

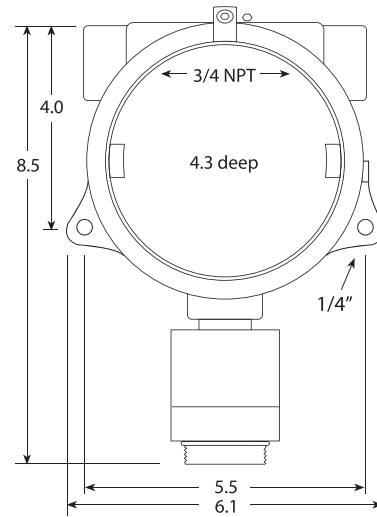
NEMA 4X, IP66

Sensor Life/Warranty

Sensor: 5 year warranty pro-rated

Transmitter: 2 year warranty

Dimensions



Splashguard 2"H x 2"Dia.

Order Guide

PN 965-225420-100 Model IR-522 in Aluminum Junction Box

PN 965-22542B-100 Model IR-522-316SS in Stainless Steel Junction Box



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