Model IR-622
Combustible Gas Sensor

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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°F to +167°F; -40°C to +75°C

Operating Humidity Range
0-99% RH non-condensing

Outputs
Linear 4-20 mA DC
RS-485 Modbus™
3 Relays (alarm 1, alarm 2, & fault)
Contacts rated 5 amps

Input Voltage
22.5-28 VDC

Power Consumption
<3 watts @ 24 VDC

Electrical Classification
Explosion proof
Class I, Division 1, Groups B, C, D
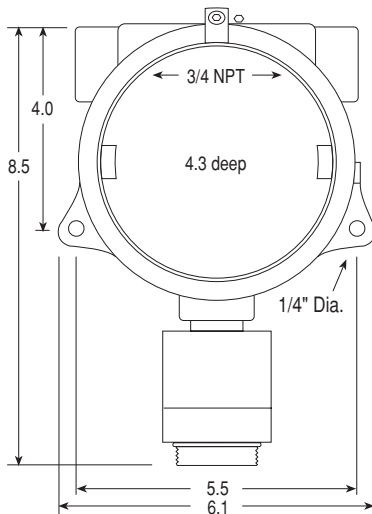
Ingress Protection
NEMA 4X, IP66

Safety Approvals
CSA/NRTL (US OSHA Certified)

Sensor Life/Warranty
Sensor: 5 year warranty pro-rated
Transmitter: 2 year warranty

Dimensions

3/4 NPT
4.0
8.5
4.3 deep
1/4" Dia.
5.5
6.1

Splashguard 2"H x 2"Dia.

Non-dispersive Infrared Optical

MicroSafe™ Intelligent Sensor

Description

Detcon Model IR-622 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 cal port, 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

▷ Compatible with PLCs, SCADA, DCS, via 4-20 mA, and/or RS-485, and/or alarm relays

▷ Sensor status and parameters accessible via RS-485 (Modbus™)

▷ Menu programmable relays standard (two alarms plus fault)

▷ 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

Order Guide

PN 966-224520-100   Model IR-622 in Aluminum Junction Box
PN 966-22452B-100   Model IR-622-316SS in Stainless Steel Junction Box

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