



Combustible Hydrocarbon Sensor

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Non-dispersive Infrared Optical

Model IR-522

(order by part number 965-225420-100)



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

T50 <10 seconds
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

Output

Linear 4-20 mA DC

Input Voltage

11.5-28 VDC

Power Consumption

<2.5 watts @ 24 VDC

Electrical Classification

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

Safety Approvals

CSA/NRTL (US OSHA Certified)

Sensor Life/Warranty

Sensor: 5 year warranty pro-rated
Transmitter: 2 year warranty

Shipping Weight

6 lbs.

Packing Dimensions

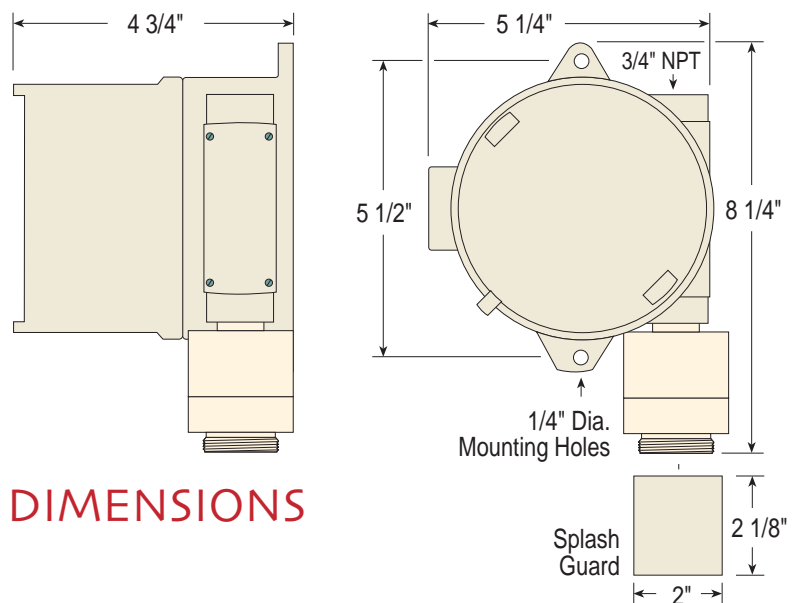
12" x 12" x 9"

MicroSafe™ Intelligent Sensor

DESCRIPTION

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

- ⊕ Electrical Classification: Class I, Division 1, Groups B, C, & D
- ⊕ Unique miniature field-replaceable optical sensor
- ⊕ Simple menu driven calibration - takes less than 3 minutes to perform
- ⊕ Backlit LCD and LED indicators for FAULT and CAL status
- ⊕ Plug-in field-replaceable transmitter
- ⊕ Heated optics design avoids condensation
- ⊕ Low power consumption
- ⊕ 5-year expected sensor life



DIMENSIONS