



**ISO 9001: 2000**  
Certified

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# Detcon Model IR-522

## Combustible Gas Sensor

Non-dispersive Infrared Optical

(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

T90 <5 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

### 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

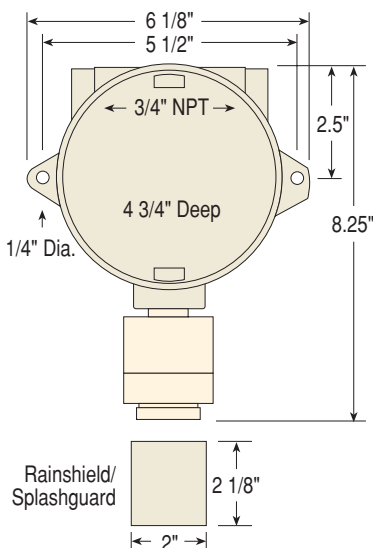
### Safety Approvals

CSA and UL Approved

### Sensor Life/Warranty

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

## Dimensions



## MicroSafe™ Intelligent 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, 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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