

Model GD10L

Open Path Infrared Hydrocarbon Gas Detector

GAS DETECTION SENSORS

INTEGRATED CONTROL SYSTEMS

SMARTWIRELESS®

PIPELINE ANALYZERS

AI ARMS

Description

The GD10L provides an effective response to the detection of gas hazards in a wide range of industrial environments from boiler plant rooms to offshore petrochemical installations.

The GD10L safeguards life, environment and property through reliable gas detection over path lengths from 2m (6.5 feet) to 30m (100 feet).

The IR sources are more resistant to vibration/shock than competing technologies, hence replacement of the IR sources is not necessary during its long service life.



The unit combines a transmitter / receiver into a single housing and utilizes a novel retro-reflector. The whole system can be commissionable by a single person. The retro-reflector is heated to minimise condensation and icing. 5 years warranty, 15 years on IR sources.

Applications

- ▶ Offshore Drilling and Production Platforms
- ► FPSO's
- Refineries

- ► Fuel Loading Facilities
- Compressor Stations
- Chemical Plants

Features

	Enhanced coverage
•	Solid state IR sources

▶ Dual IR sources / detectors

Precision designed retro-reflectorHeated retro-reflector

► Handheld configuration tool

► Reduced cabling

Benefits

Fewer devices needed to cover installation

Ultra-stability and long life

Well proven auto compensated design

Less prone to misalignment

Minimizes icing and condensation

Simple one-man set up & commissioning

Cable to one end only for indoor applications

Model GD10L ■ Open Path Infrared Hydrocarbon Gas Detector

853-814562-R03

General

Detection Method: IR-absorption, dual wavelength, dual path

IR-Source: Solid state IR source, 50Hz flash

Self-test: Continuous

Calibration: Factory set, no field recalibration

Performance

Detection Range: 5 LEL.m Methane **Path Length:** 2-30m (7-100 feet)

Long-term Stability *: Better than 0.2 LEL.m **Repeatability *:** Better than 0.1 LEL.m

Response Time: T50 = 2.5 sec

T90 = 5 sec

*Refers to -20°C to +45°C

Output Signal

Standard:

Current source 4-20 mA, max load impedance 500 Ohm

Option: Current sink 4-20 mA

Detector warnings:

Clean Optics - 1 mA (Option 2mA)

Sensor Failure - 0 mA

Electrical

Detector Power Supply: 18-32 VDC **Power Consumption:** Approx. 5W

Electrical Connection: 3 wires (M20 EExe cable gland) **RFI/EMI:** Complies with EN50081-1, EN50081-2,

EN50082-1 and EN500082-2

Retro-reflector:

Power supply 230 VAC, option 110 VAC

Power consumption 120W (Max) 30m (100 feet) range

Environmental

Operating: -20°C to + 60°C (-4°F to +140°F) **Humidity (operation):** 99% RH non-condensing

Approvals

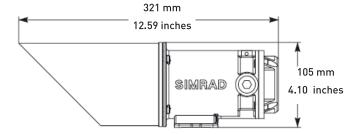
ATEX Certified: ATEX 2 II G EExde IIC T6

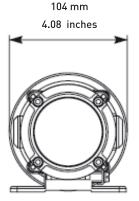
IEC Ex: Ex de IIC T6

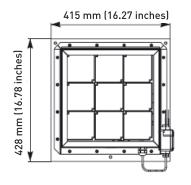
Temperature Range: -40° C to $+65^{\circ}$ C; -40° F to $+149^{\circ}$ F)

Mechanical

Protection Category: IP66/IP67 DIN 40050 (NEMA 4X) **Housing Material:** Stainless steel SIS2343 (ASTM 316)









Weight

Transceiver: ~3.5 Kg (7.7 lbs)
Retro-reflector: ~14 Kg (30.8 lbs)
Mounting Bracket: ~5.5 Kg (12.1 lbs)

Accessories

Alignment tool Hand held terminal Gas simulation filter

Specifications subject to change without notice



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Certified