

# GD10L

One person commissioning  
Reduced misalignment  
15 years warranty IR sources

## Open Path Infrared Hydrocarbon Gas Detector

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.

### Description

The GD10L safeguards life, environment and property through reliable gas detection over path lengths from 2 (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 utilises 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

### Application

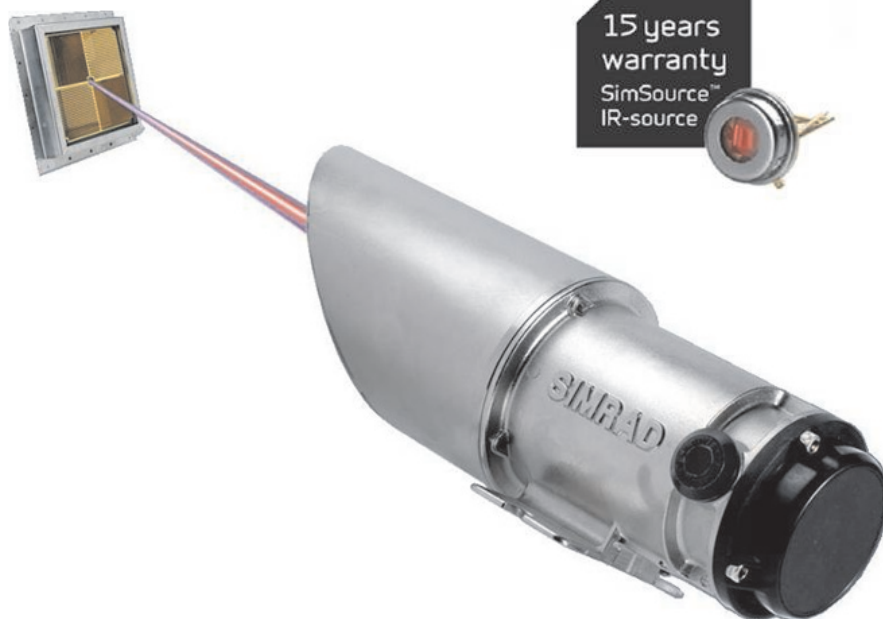
- Offshore Drilling and Production Platforms
- FPSO's
- Refineries
- Fuel Loading Facilities
- Compressor Stations
- Chemical Plants

### Features

- Enhanced coverage
- Solid State IR Sources
- Dual IR sources / detectors
- Precision designed retro-reflector
- Heated 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
- Minimises icing and condensation
- Simple one-man set up & commissioning
- Cable to one end only for indoor applications



## Technical Data

### 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 Option: Other ranges
Path Length	2-20m or 2-30m 7 - 65 feet or 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.

### OUTPUT SIGNAL

Standard	Current source 4 - 20 mA, max. load impedance 500 Ohms
Option	Current sink 4 - 20 mA
Detector warnings:	
Clean optics	1 mA
Sensor failure	0 mA

### ELECTRICAL

Detector power supply	18 32 V DC
Power consumption	Approx. 5 W
Electrical connection	3 wires (M20 EExe cable gland)
Retro-reflector power supply	
Power supply	230V AC      Option: 110 V AC
Power consumption	60 W (Max) 20m (65 feet) range 120W (Max) 30m (100 feet) range

### ENVIRONMENTAL

Operating:	-0°C to +45°C      [-4°F to +113°F]
Option:	-30°C to +60°C      [-22°F to +140°F]
Humidity (operation)	99% RH non-condensing

### CERTIFICATION

ATEX certified	ATEX 2 II G EExde IIC T6
----------------	--------------------------

### RFI/EMI PROTECTION

Complies with EN50081-1, EN50081-2, EN50082-1 and EN50082-2.

### 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	~8.5 Kg (18.7 lbs), 20m range ~14Kg (30.8 lbs), 30m range
Mounting bracket	~5.5 Kg (12.1 lbs)

### ACCESSORIES

Alignment tool	708-812800.1
Hand held terminal	109-813103.9
Gas simulation filter	419-813183.1

