Designed for safety - made for life

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 it's 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

Applications

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

Features	Benefits
Enhanced coverage	Fewer devices needed to cover installation
Solid State IR Sources	Ultra-stability and long life
Dual IR sources / detectors	Well proven auto compensated design
Precision designed retro-reflector	Less prone to misalignment
Heated retro-reflector	Minimises icing and condensation
Handheld configuration tool	Simple one-man set up & commissioning
Reduced cabling	Cable to one end only for indoor applications

SIMTRONICS
Fire & Gas

an IST company

GD10L

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
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 Ohms
Option	Current sink 4 - 20 mA
Detector warnings:	
Clean optics	1 mA (Option 2mA)
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)
RFI/EMI	Complies with EN50081-1, EN50081-2, EN50082-1 and EN500082-2
Retro-reflector	
Power supply	230V AC Option: 110 V AC
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°C

MECHANICAL

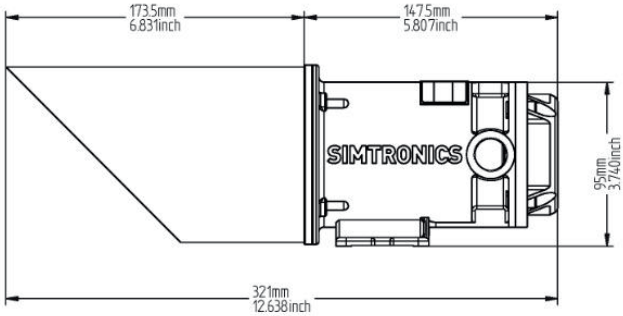
PROTECTION CATEGORY	IP66/IP67 DIN 40050 (NEMA 4X)
Housing material	Stainless steel SIS2343 (ASTM 316)

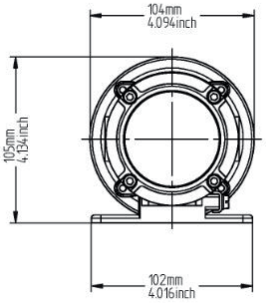
WEIGHT

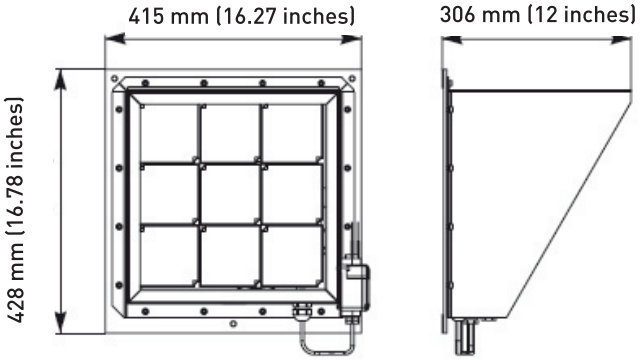
Transceiver	~3.5 Kg (7.7 lbs)
Retro-reflector	~14Kg (30.8 lbs)
Mounting bracket	~5.5 Kg (12.1 lbs)

ACCESSORIES

Alignment tool
Hand held terminal
Gas simulation filter







SIMTRONICS Fire & Gas

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