TELEDYNE
GAS AND FLAME DETECTION
Everywhere**you**look™

SafEye
Open Path Combustible gas detector

Bid specification

Product Description

SafEye is a SIL-2 compliant Open Path gas detector for combustible gas detection. It is available in 3 or 4 wire configuration with a standard 4-20 mA and MODBUS® output. It also supports HART® communication protocols. SafEye has built in alarm and fault event logging. It also provides a user friendly 3 color status LED and is configurable with a non-intrusive magnetic switch.

Certifications

Global Approvals	IECEx, ATEX, FM, FMC, SIL-2 (Third Party Certification by TUV-Rheinland), DNV
Area Classification	Class I Div. 1 Group B,C and D; Class II/Class III Div. 1 Group E,F and G

Environmental

Operating Temperature	-55° to 65° Celsius / -67° to 149° Fahrenheit
Humidity	0-95% RH (non condensing)

Transmitter Specification

Power	3 wire or 4 wire
Operating Voltage 3/4 Wire	10-32 VDC (24 VDC nominal)
Power Consumption	12 Watts max. (6.0 Watts each for Source and Detector)
Electrical Input Protection	MIL-STD-1275Bx EN50270
Enclosure Material	316L Stainless Steel
Enclosure Ingress Protection	NEMA 250 Type 6P, IP66 and IP68
Conduit Connections	3/4" NPT or M25 thread
Communication Protocols	Standard 4-20 mA, MODBUS®, HART®
Maximum 4-20 loop load Ohms (@24 VDC)	500 Ohms
Alarms	1 alarm 3 fail safe system fault detection modes
Display	One 3 color status LED: Green – Power Yellow – Fault Red - Alarm
Documentation Languages	English, Portuguese, Spanish
User Configuration Control	Magnetic Mode selector, Winhost Software (PC), HART® hand-held Communicator, MODBUS®
Access Control	Transmitter provides controlled access to sensor range, alarm settings and other safety functions; password protection for secure configuration control
Memory	Non-volatile memory ensures configuration parameters are retained in the event of power loss
Accessories	Commissioning Kit, Sun shield, 5" Pole Mount, HART® Hand-Held Diagnostic Unit, Winhost Software, RS485 Connector cable, Magnetic Mode Selector
Flexible Design	Allows for ease of calibration without the need to remove instruments.
Weight	11 lbs (5 kg) each Detector/Source 4.2 lbs (1.9 kg) each Tilt mount 30.4 lbs (13.8 kg) Total

Wiring	Transmitter accepts industry standard 3-wire, or 4-wire inputs
Flexible Mounting Option	Source/Detector each provides multiple conduit entry points for sensor, power, signal, and relay wiring
Tilt Mounting Flange Surface Area	4.70" x 4.70" / 120mm x 120mm
Tilt Mounting Bolt Holes	4 holes with 0.334" dia. (8.5mm) in square pattern, 3.937" (100 mm) each side of square, hole center to hole center.

Sensor Specification

Detector Type	Combustible Gas detection of Hydrocarbon Gases
Sensor Types	Detector and Infrared Flash source, source changes depending on required range: Quasar 901 - Detects between 7 and 20 meters (23 - 66 feet) Quasar 902 - Detects between 15 and 40 meters (50 - 132 feet) Quasar 903 - Detects between 35 and 100 meters (115 - 330 feet) Quasar 904 - Detects between 80 and 200 meters (265 - 660 feet)
Sensitivity Range	0-5 LEL.m

Warranty

Infrared Flash Bulb	10 Years
Complete SafEye System	3 Years

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OLDHAM SIMTRONICS
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AMERICAS
14880 Skinner Rd
Cypress, TX 77429, USA
Tel.: +1 713-559-9200
Fax: +1 281-746-3064

EMEA
ZI Est, Rue Orfila,
CS 20417
62027 ARRAS CEDEX, France
Tel.: +33-3-21-60-80-80

ASIA PACIFIC
Room 04, 9th Floor,
275 Ruiping Road,
Xuhui District, Shanghai, China
TGFD_APAC@teledyne.com

www.teledynegasandflamedetection.com