



SafEye

Open Path Combustible Gas Detector



Description

The SafEye Open Path Detector is an innovative, next generation solution to open path combustible gas detection. It can replace multiple point detectors, detects multiple gases at once, and is durable, proving to be a smart, cost efficient choice for combustible gas detection.

Features

- Three color LED gives a quick visual of unit status
- Intrinsically Safe communication port can be used with HART® Hand-Held in non-safe areas for setup and diagnostics
- Heated optics provide unfettered Detection in most environments
- Long range, up to 200 meters, reduces number of units required
- Fast response (< 3 seconds) gives quick alert to hazards
- Low maintenance requirements saves time and money
- Multiple regulatory approvals
- Connects easily to existing systems
- User programmable functions allow customization
- Event recorder keeps track of all alerts and warnings
- High reliability and a three-year warranty provide peace of mind



Reliable open path gas detection

Long range, fast detection and lower cost of ownership



Save costs in line-of-sight applications

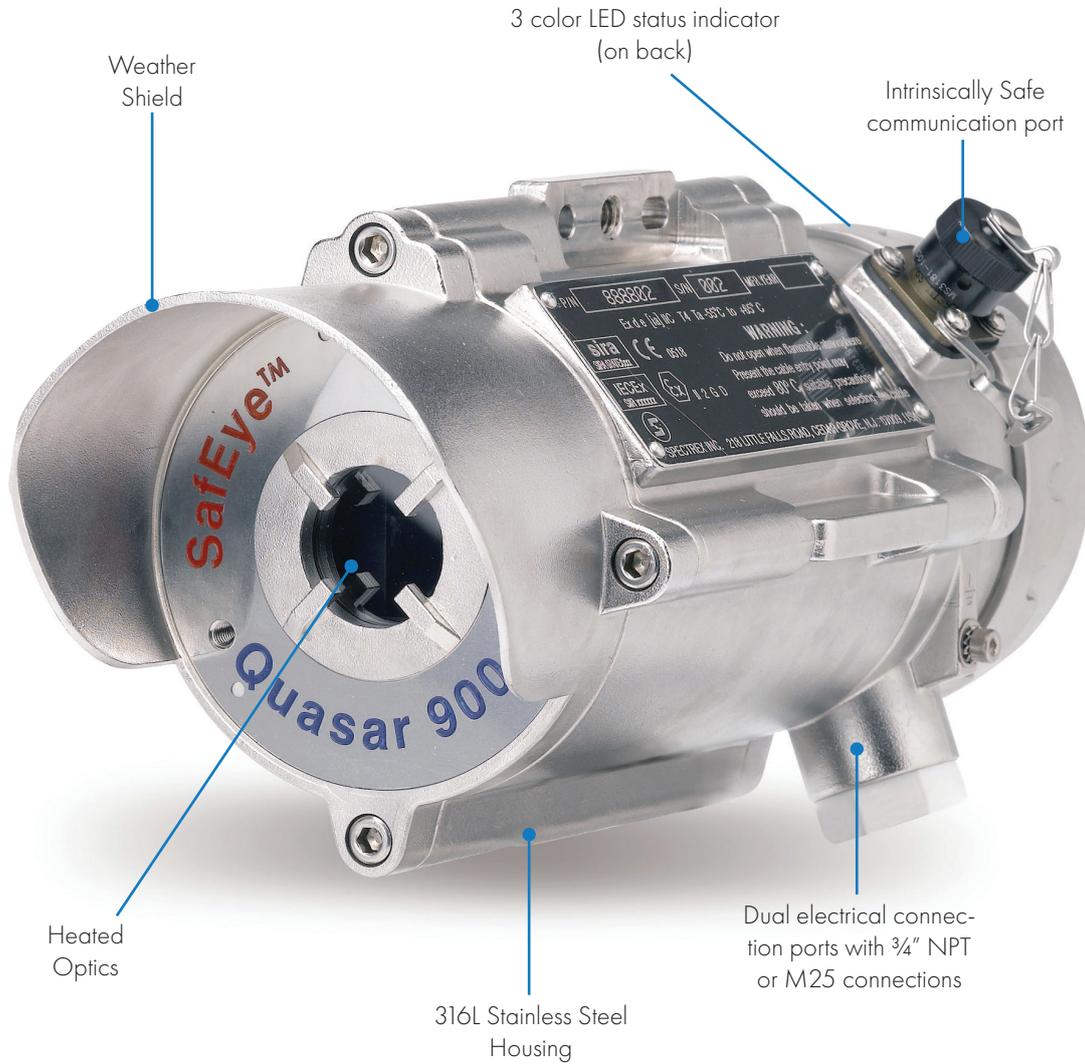
One SafEye Open Path Detector can replace up to 20 point combustible gas detectors in line-of-sight applications, saving installation and ongoing maintenance costs. With the SafEye there are only two units to service and the maintenance requirements are minimized compared with point detectors. Additionally, there is only one consumable to replace periodically; SafEye Xenon Flash Bulb has a 10 year warranty.

Detect multiple combustible gases simultaneously

The SafEye IR sensor can detect multiple combustible hydrocarbon gases at the same time—perfect for facilities with multiple hydrocarbon gases to monitor, such as C1-C8 hydrocarbons (Methane, Ethane, Ethylene, Propane, Propylene, n-butane, Isobutane, 1, 3-butadiene, Isobutylene, Alkanes, Alkenes, Naphthenes, Benzenes).

Handle tough environments with confidence, longer

Robustly designed to handle the toughest work environments and maintain a long operating life, the SafEye Open Path Gas Detector is equipped with 316L stainless steel casings and mounts, coated circuit boards for protection, and is SIL-2 approved per IEC61508. Additionally, the SafEye detector meets MIL-C-810C standards for humidity, salt, fog, vibration, mechanical shock and temperature extremes, while the housings meet IP66, IP68 and NEMA 250 6P water and dust egress standards.



Accessories



Commissioning Kit
PN 8000449

Commissioning kit includes:
Alignment Telescope, Magnetic
Mode Selector, Function Check
Filters and
socket keys.



**USB/RS485
Harness**
PN 8000453

Connect to your PC to adjust
detector settings. Only for use
in Safe Areas.



**HART® Hand-Held
Communicator Kit**
PN 8000451

Tool to connect to the detector
to view, change and maintain
settings.

While we may be more well-known for its long history in the fire safety industry, it has also proudly served the gas detection and protection industry for over 50 years. The SafEye Open Path Detector is part of the newest generation of gas detection equipment, proving to be yet another smart solution innovatively designed with customer needs and safety as first priority, always.

Specifications and ordering information

Product Specifications

Detector /Source with Tilt Mount Dimensions (each)
10.5 x 11.4 x 5.1 inch (267 x 288 x 130 mm)

Detector/Source with Tilt Mount Weight (each)
15.2 lbs (6.9 kg)

Enclosure and Tilt Mount Material
316L Stainless Steel

Operating Temperature Range / Humidity
-67°F to 149°F
-55°C to 65°C
0 – 95% RH (non condensing)

Minimal Detectable Gas Level
0.15 LEL.m

Communication
4-20 mA, MODBUS®, HART®

Enclosure Ingress Protection
NEMA 250 6P type, IP66/IP68

Electrical Connections
3 or 4 wire connections
10 – 32 VDC
6 Watts Max per unit

Electromagnetic Compatibility
EMI/RFI protected per EN50270

Approvals

ATEX/IECEx: Ex II 2(2)G D, Ex db eb [ib Gb] IIB+H₂ T4 Gb,
Ex tb IIC T135°C Db, Ta = -55°C to +65°C

FM/FMC: Class I Div. 1 Groupe B, C et D
Class II/III Div. 1 Group E, F et G

DNV: Type Approval Certification
Certificate No. A-13607

SafEye Open Path Detector Kits

OPGD-901-C-111	SafEye Model 20 (7-20 m Range), ATEX, M25
OPGD-901-C-112	SafEye Model 20 (7-20 m Range), ATEX, 3/4" NPT
OPGD-901-F-111	SafEye Model 20 (7-20 m Range), FM, M25
OPGD-901-F-112	SafEye Model 20 (7-20 m Range), FM, 3/4" NPT
OPGD-902-C-211	SafEye Model 40 (15-40 m Range), ATEX, M25
OPGD-902-C-212	SafEye Model 40 (15-40 m Range), ATEX, 3/4" NPT
OPGD-902-F-211	SafEye Model 40 (15-40 m Range), FM, M25
OPGD-902-F-212	SafEye Model 40 (15-40 m Range), FM, 3/4" NPT
OPGD-903-C-311	SafEye Model 100 (35-100 m Range), ATEX, M25
OPGD-903-C-312	SafEye Model 100 (35-100 m Range), ATEX, 3/4" NPT
OPGD-903-F-311	SafEye Model 100 (35-100 m Range), FM, M25
OPGD-903-F-312	SafEye Model 100 (35-100 m Range), FM, 3/4" NPT
OPGD-904-C-411	SafEye Model 200 (80-200 m Range), ATEX, M25
OPGD-904-C-412	SafEye Model 200 (80-200 m Range), ATEX, 3/4" NPT
OPGD-904-F-411	SafEye Model 200 (80-200 m Range), FM, M25
OPGD-904-F-412	SafEye Model 200 (80-200 m Range), FM, 3/4" NPT

Each kit contains source, detector and two Tilt Mounts.

SafEye Accessories

OPGD-888270	Tilt Mount
OPGD-799225	Pole Mount (U-Bolt 5 inch)
OPGD-888247-1	Commissioning, alignment and optical verification kit - Methane
OPGD-888247-2	Commissioning, alignment and optical verification kit - Propane
OPGD888247-3	Commissioning, alignment and optical verification kit - Ethylene
OPGD-888815	HART Hand-Held Harness Kit
OPGD-794079	USB/RS485 Harness Converter Kit
OPGD-888263	Sunshade, Stainless Steel
OPGD-888260-3	Function Check Filter Warning Level - Methane
OPGD-888260-4	Function Check Filter Alarm Level - Methane
OPGD-888260-1	Function Check Filter Warning Level - Propane
OPGD-888260-2	Function Check Filter Alarm Level - Propane
OPGD-790285	Magnetic Mode Selector

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