The XC cross duct methane (CH₄) gas detector is used for applications where there is expected to be background concentrations of CH₄ and the objective is to detect significant changes to these levels (e.g. coal mine exhaust ventilation). These devices are typically mounted onto opposing side walls of ventilation ducting to provide earlier detection and fast activation of process executive actions.

**ADVANCED SENSING TECHNOLOGY**

**Harmonic Fingerprint™** Much like forensic fingerprint ID, the Harmonic Fingerprint™ uses multiple identifiers in the absorption analysis of the target gas to eliminate false alarms.

**SimuGas™** Only the Senscient ELDS™ can check and record functional tests automatically everyday.

**Zero Maintenance** The system does not require consumable sensing elements or calibrations, significantly reducing operation costs for time and materials spent on maintenance.

**Tuneable Lasers** Class 1 eye safe lasers penetrate thick fog, heavy rain, and snow further than differential infrared based detectors.

**Bluetooth®** Stay Connected. Work Smarter. Bluetooth wireless technology for faster commissioning and troubleshooting while keeping workers out of harms way.

**Lock Cell** A real target gas sample eliminates laser drift and maintains Harmonic Fingerprint™ lock continuously all day.

**Fastest Response** Less than one second response time for increased safety.

**Single point verification**
- Low false alarm rejection

**Four point verification**
- Highest false alarm rejection
**TECHNICAL SPECIFICATIONS**

**Specifications**

**Gas**
- METHANE (CH₄)

**Ranges**
- 0-25% LEL
- 0-100% LEL

**Path Length**
- 0.5-5 m (1.6-16 ft)

**Format**
- INDIVIDUAL TRANSMITTER (Tx) & RECEIVER (Rx)

**Performance**

**Response Time**
- T₉₀ ≤ 0.25 SECONDS

**Repeatability**
- ± 5% FSD

**Linearity**
- ± 5% FSD

**Environmental**

**INGRESS PROTECTION**
- IP66/67 NEMA TYPE 4/4X/6

**Enclosure Material**
- 316L STAINLESS STEEL

**Lens Material Tx**
- FACETED OPTICAL GLASS

**Lens Material Rx**
- ASPHERIC OPTICAL GLASS

**Operating Temperature**
- -55°C TO +60°C (AMBIENT) (-67°F TO 140°F)

**Humidity**
- 0 - 100% RH (NON-CONDENSING)

**Vibration**
- 10 - 150 Hz, 2 g

**EMC**
- Class 1 (EYE SAFE) IEC 60825-1

**Certification/Approvals**

**CSA and UL:**
- CUSTOMS UNION OF RUSSIA, KAZAKHSTAN & BELARUS:
  - Class I Div 1 Groups A & D T5
  - Class II Div 1 Groups E, F & G T5
  - Ex d IIB + H₂ T5
  - Gb
  - INMETRO:
    - Tx & Rx LENSES ARE CONTINUOUSLY HEATED
    - CLASS 1 (EYE SAFE) IEC 60825-1
  - ATEX / IECEx:
    - II 2 GD Ex d IIB + H₂ T5
    - Tx & Rx SUPPLIED WITH SUN SHIELD/DELUGE PROTECTION
    - Tx & Rx SCREWED WITH SUN SHIELD/DELUGE PROTECTION

**Calibration**

**Factory Calibrated for Life, No Routine Calibration Required.**

**Ordering Information**

**To Order / Specify:**
- SENSIENT ELDS XC

**Gas Type:**
- CH₄

**Measuring Range:**
- E.G. 0-25% LEL

**Path Length:**
- E.G. 0.5-5 m

**Checking:**
- E.G. ± 2.5°

**Optical**

**Uses Harmonic Fingerprint™ to Ensure No False Alarms During Adverse Environmental Conditions, Misalignment or Partial Occlusion.**

**Alignment**
- ± 2.5°

**Obstruction**
- OPERATES UP TO 95%

**Heated Optics**
- Tx & Rx LENSES ARE CONTINUOUSLY HEATED

**Laser Beam**
- CLASS 1 (EYE SAFE) IEC 60825-1

**FDA Accession No.**
- 1410373-000 (FOR IMPORTS INTO USA)

**Accessibility**

**Approved Interface Terminal (PC)**

**Interface Terminal (Tablet)**

**Alignment Adjustment Bushings**

**Gassing Cell (Optional)**

**Additional locations can be found on our web site: www.MSAsafety.com**

**Note:** This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products. Specifications subject to change without notice.

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