Sieger Searchline Excel

Honeywell





Medium Range (40 to 120 metres) open path infrared gas detection

Searchline Excel Medium Range (40 to 120 metres)



Features

- Immune to sunlight effects
- Outstanding severe weather performance (e.g., fog., snow, rain)
- Very fast response time
- Single operator alignment
- True alignment system
- Single operator commissioning
- Early warning of dirty optics
- Heated optical windows
- Optional Modbus RS485 multidrop output

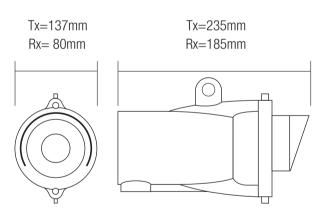
Applications

 FPSO's, Petrochemicals plants, offshore platforms, pipeline monitoring, perimeter monitoring, etc.

Accessories

 Heat/deluge cover dual purpose hand held interrogator, gassing cell, alignment telescope, functional test filters Searchline Excel is a hydrocarbon detector using open-path infrared technology. Using a separate transmitter and receiver configuration, it provides a wide, dynamic range and maximum on-line time. Advanced digital signal processing and self checking ensures high integrity and availability. It has a stainless steel housing for robustness. Outputs are industry standard 4-20mA and optional Modbus RS485 multidrop.





General specification





General Specification	
Available Gases	Methane, ethane, propane, butane, pentane, hexane, ethylene ^[2] , propylene ^[2] , butadiene ^[2] , ethanol ^[2] , methanol ^[3] , vinyl chloride ^[3] , ethylene dichloride ^[3]
Range	0 to 5 LEL.m
Recommended Alarm Settings	(Low) 1.0 LEL.m; (high) 3.0 LEL.m
Path Length	40 to 120m (130 to 390 ft)
Speed of Response	T90 less than 3 seconds (under normal operating circumstances)
Output Signal	4 to 20mA (maximum loop resistance 600 ohms; source & sink available) and RS485 21mA Overrange 4 to 20mA Normal operation (0 to 5 LELm) 3mA ⁽¹⁾ Dirty optics 2.5mA ⁽¹⁾ Beam blocked 2mA ⁽¹⁾ Inhibit 0mA Fault
Digital Output	Optional Modbus RS485 multidrop output using DVC/DX100(m)
Operating Temperature	-40 to 65°C (-40 to 150°F)
Operating Humidity	0 to 99% RH (non-condensing)
Operating Pressure	91.5 to 105.5 KPa (915 to 1055 mbar non compensated)
Repeatability	±0.1 LELm
Warm-up Time	Less than 5 minutes (operational), or less than 1 hour (fully stabilised)
Power Supply	18V to 32V dc
Power Consumption	TX 5.5 / 7.5*W maximum RX 8W maximum
Enclosure Material	316 stainless steel
Weight (inc. mounting bracket)	TX 7kg RX 3.5kg
Vibration	2 to 60Hz, max ptp amplitude 1mm
Misalignment Tolerance	±0.5° (+/-~104cm at 120m)
EMC Standards	EN50081-1 1992 EN50082-2 1995
Performance Approval	FM performance approved
Safety Approval	CENELEC/ATEX EExd IIC T5(-40°C to +65°C) EExd IIC T6(-40°C to +40°C) EExd IIC T6(-40°C to +40°C) II 2G II 2G FM Class 1 Div 1 Groups B, C + D UL Class 1 Div 1 Groups B, C + D and Class 1 Zone 1 AEx d IIB + H₂ (Tamb -40°C to +65°C) CSA Class 1 Div 1 Groups B, C + D, T5 and Exd IIC (Tamb -40°C to +65°C) Other SAA, FTZU, GOSST I.P Rating IP66 and IP67

⁽¹⁾ User programmable

⁽²⁾ Only available on Searchline Excel ethylene versions

⁽³⁾ Only available on Searchline Excel ethylene versions with factory calibration accuracy of $\pm 15\%$

^(*) Turboheating activated (standard feature; user selectable). This is recommended for the most severe weather conditions

As World leaders in gas detection solutions, Honeywell Analytics' Sieger systems provide the most efficient, practical and cost-effective fixed-point equipment. Wherever protection is required from flammable or toxic gases, you can rely on our equipment to provide practical solutions and to help keep your business running safely and profitably.

The Sieger range of fixed gas detection









Searchpoint

Optima Plus

explosive atmospheres

in harsh environmental

conditions, SearchPoint

Ontima Plus is ideal where

maintenance and failsafe

operation is essential.

storage and offloading

vessels, and oil and gas

terminals.

speed of response, reduced

Common applications include

offshore platforms, production

Designed for use in potentially





Apex

Searchline Excel

Typically used in the oil and gas distribution, petroleum extraction and chemical manufacturing industries, the Apex gas detector and transmitter functions across a wide range of detectable flammable and toxic gases. With its rugged 316 stainless steel enclosure, it is especially suited for extreme conditions, and provides a cost-effective gas detection solution for a wide range of applications.

Searchline Excel Cross Duct™ is an open path infrared gas detector for the detection of Hydrocarbons within HVAC air intakes and ventilation ducting systems up to 5 meters in width.

It is based on the proven Searchline Excel, which covers ranges up to 200m.

ClearShield™ glass coating, infrared beam and heated optical surfaces all combine to reduce downtime and increase system availability.

Signalpoint

Signalpoint is a self-contained gas sensor system for either combustible or toxic gases, designed to make installation simple and maintenance minimal. Constructed in strong plastic, it is particularly suited for indoor applications in light industrial environments.

System 57

The System 57 controller provides display and alarm facilities for the full range of gas detectors. It comprises a rack unit with mounting options for channel control cards and interface cards.





Find out more

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Searchflame 16

Searchflame 16 is a range of optical flame detectors for detection of Hydrocarbon and non-Hydrocarbon flaming fires in designated hazardous areas. Operating on UV or UV/IR principles, they have a 120-degree field of view, providing the widest coverage available by any product.

The 705 High Temperature Sensor is a hazardous area certified sensor for the detection of

combustible gases.

705 HT Sensor

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