



INDUSTRIAL FIXED

Searchline Excel Open Path Infrared Gas Detector

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Overview



Feedback

World-renowned infrared open path flammable gas detector offering unrivalled performance and sensitivity.

Product Overview:

The Searchline Excel is the World's best selling infrared open path gas detector with over 6,000 units installed in challenging applications throughout industry. From the Arctic Circle to Middle Eastern Deserts, customers have repeatedly selected the Searchline Excel as their preferred choice.

The fundamental design of Searchline Excel has remained the same since its original launch and it continues to lead the field.

Searchline Excel is totally immune to interference from sunlight or any other sources of radiation such as flare stacks, arc welding or lightning.

The patented optical design used in Searchline Excel has proven itself as the only solution available that fully addresses all the challenges of open path gas detection. Unlike some competitive devices, it does not try to hide fundamental design inadequacy with the use of software masks that can compromise the unit's ability to detect gas.

Searchline Excel employs a patented double band pass filter that fully compensates for all types of fog and / or rain, thereby allowing it to continue to operate accurately and reliably in all climatic conditions.

Additional Features and Benefits:

Why open path gas detection?

Open path detectors complement the use of individual point detectors and offer many significant benefits including:

- Wider area coverage - most likely to pick up any leak

- Very high speed of response
- NO unrevealed failure modes - no possibility of blocked gas path to detector
- Detector location not as critical
- Indicates size of hazard

Sample and reference detector alignment:

- Reduced sensitivity to alignment
- Guaranteed performance
- Reduced sensitivity to partial obscuration

Improved hand-held software:

- Simple confirmation of alignment
- Visual indication of target and current signal levels
- Compatible with existing systems

Improved telescope:

- High Power Rifle Telescope
- Easier to align with greater zoom and magnification
- Robust shock resistant design

Features & Benefits:

- Fast speed of response provides earliest warning
- High sensitivity allows low alarm set points
- Alignment free design makes installation simple
- Duct flex and vibration tolerance keeps the system online
- Integral functional gas test facility allows for simple system check
- Contamination resistant optics reduce the need for unscheduled maintenance
- Not affected by interference from water vapor
- Immune to catalytic poisons
- Works in inert atmospheres

Quick Specs:

- Response speed: T90 less than 3 seconds (under normal operating conditions)
- Range: 0 to 5 LEL m.
- Operating temperature: -40° to +65°C (-40° to 150°F)

Fire and Gas Consultancy Services

Even the best products deserve expert maintenance!

Elevate your gas detectors' potential with Honeywell's expert maintenance services! Maximize uptime, eliminate costs, and ensure on-time, on-budget project completion.

[Explore our fixed, portable, and high-tech support services now!](#)

Specifications

BRAND

Brand

- Honeywell

CATEGORY

Sub-Category

- Infrared Gas Detectors & Transmitters

Product Number

02104-N-4006X	SEARCHLINE EXCEL ALIGN KIT S/R W/O HHI
02104-N-4007	SEARCHLINE EXCL ALGN KT MID and LG RANGE
02104-N-4007X	SEARCHLINE EXCEL ALIGN KIT L/R W/O HHI
02104-N-4024	S/LINE EXCEL KT M/R SRC ATEX - WITH JB
02104-N-4034	Excel line-of-sight gas detection system, long range (120 to 200m), 4 to 20mA (source) and Modbus outputs, ATEX/IECEX, fully wired with flexible conduit, electro polished 316SS.
02104-N-4044	Excel line-of-sight gas detection system, short range (5 to 40m), 4 to 20mA (sink) and Modbus outputs, ATEX/IECEX, fully wired with flexible conduit, electro polished 316SS.
02104-N-4054	Excel line-of-sight gas detection system, medium range (40 to 120m), 4 to 20mA (sink) and Modbus outputs, ATEX/IECEX, fully wired with flexible conduit, electro polished 316SS.
02104-N-4064	Excel line-of-sight gas detection system, long range (120 to 200m), 4 to 20mA (sink) and Modbus outputs, ATEX/IECEX, fully wired with flexible conduit, electro polished 316SS.
02104-N-4814	Excel line-of-sight gas detection system, short range (5 to 40m), 4 to 20mA (source) and Modbus outputs, CU-TR Ex, fully wired with flexible conduit, electro polished 316SS. Includes Tx, Rx, 316SS mounting plates, brackets and hardware
02104-N-4824	Excel line-of-sight gas detection system, medium range (40 to 120m), 4 to 20mA (source) and Modbus outputs, CU-TR Ex, fully wired with flexible conduit, electro polished 316SS. Includes Tx, Rx, 316SS mounting plates, brackets and hardware

Feedback

Alternative Products



Searchline Excel™ Edge

Open Path Infrared Gas Detector - Long Range



Searchline Excel Cross-Duct

Searchline Excel Cross-Duct

WHITE PAPER / BEHAVIOR-BASED SAFETY

How to build a culture of safety



Feedback

[The key to keeping workers safe is to avoid injuries in the first place. That begins with establishing cultural guidelines that help workers make the right decisions and build an atmosphere of trust.](#)

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 Safety and Productivity
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