

Honeywell

SEARCHLINE EXCEL™ EDGE

Push your detection to the Edge



The Searchline Excel™ Edge Flammable Hydrocarbon gas detector delivers long-range coverage and protection for perimeter and fence-line monitoring.

LONG-RANGE PERIMETER MONITORING IN HARSH CONDITIONS

Designed for long-range perimeter and fence line monitoring applications, the Searchline Excel™ Edge helps protect your people, facilities and processes from combustible gas leaks. When mounted at the edge/perimeter of your facility, it provides long-range monitoring and reliable detection in harsh and changing environments for protection and peace of mind.

ELEVATE YOUR ENVIRONMENTAL DUE DILIGENCE

The Searchline Excel™ Edge's innovative optical gas detection capabilities cover a longer range and see through even thick fog better than any other open path gas detectors whether NDIR or laser-based.

KEY FEATURES

- **RELIABLE DETECTION**
Fast response to flammable Hydrocarbon gas even in low visibility conditions. Advanced diagnostics including window clarity and alignment accuracy to enable maximum uptime and continuous site protection.
- **EASY TO USE**
Honeywell Fixed Platform Universal Mount and advanced alignment scope makes for easy mechanical installation. Incorporates Bluetooth® connectivity for simplified, non-intrusive set-up and maintenance. Just pair the Searchline Excel™ Edge with our intrinsically safe, ruggedized mobile phone; then use the Honeywell Fixed Platform App to interact with the detector.
- **HEAVY DUTY OPERATION**
Operates in harsh environments to maintain coverage. Advanced transmitter and receiver optics means that monitoring continues in thick fog long after other detectors cease to provide coverage.
- **AT-A-GLANCE INSTRUMENT STATUS**
High Visibility LED HALO ring provides clear indication of device status. Automatic reporting with full logging of alarms, events and maintenance actions.
- **LONG-RANGE MONITORING**
Longest range site detection for fence line/perimeter monitoring up to 330 meters (1082 feet). Flat response over a range of target gasses; performance approved.
- **MULTIPLE OUTPUTS**
Multiple outputs including 4-20mA, Relays, HART®, Modbus and Bluetooth® communication.
Easily integrate the Searchline Excel™ Edge into your existing network.

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SPECIFICATIONS Specifications subject to change without notice

Primary Gases (Performance approved 1, 2)	Searchline Excel™ Edge will respond to a wide range of Hydrocarbon Gases as most of these gases absorb IR in the required wavelengths: Methane ^{1,2} , Ethane ¹ , Propane ^{1,2} , Butane ¹ , Pentane ¹ , Hexane, Ethylene ¹ , Propylene ¹ ; 1FM Performance Approved; ² DNV approved	Relay Outputs	Max. 32 Vdc/ac, max. 2 A resistive load
Range	0–5 LEL.m; for ppm.m equivalents see manual	Humidity	0–99% Relative Humidity Non-condensing, DNVGL-CG-0339 Location Class B
Recommended Alarm Setting	Low 1 LEL.m; High 3 LEL.m; for ppm.m equivalents see manual	Pressure	91.5-105.5 kPa (915–1055 mBar, non-compensated)
Recommended Minimum Alarm Setting	0.5 LEL.m; for ppm.m equivalents see manual	Repeatability	±0.4 LEL.m; for ppm.m equivalents see manual
Path Length	60 m to 330 m (196 ft to 1082 ft)	Temperature Drift -40°C to +65°C (-40°F to 149°F)	±0.2 LEL.m @ zero ±0.5 LEL.m @ 3 LEL.m
Speed of Response	T90 less than 3 seconds	Warm-up Time	Less than 5 minutes (operational), less than 1 hour (fully stabilized)
Analog Output Signal	4–20 mA Normal operation, 1 mA Fault*, 2 mA Inhibit, 3 mA Warning, 21 mA Over-range. Linearized 0–5 LEL.m	Internal Battery Cell	TLH-2450, 10-year lifetime (replaced only by authorized service)
Environmental Operating Temperature	-55°C to +75°C (-67°F to 167°F). DNVGL-CG-0339 Location Class B	Weight	Searchline Excel™ Plus: Rx 6.1 kg (13.4 lb), Tx 6.0 kg (13.2 lb) Universal Mounting Bracket: 3.1 kg (6.9 lb) Stainless Steel Mount Plate Adaptor: 3.71 kg (8.18 lb) Stainless Steel
Storage Temperature Range	-55°C to +75°C (-67°F to 167°F). DNVGL-CG-0339 Location Class B	Dimensions	Searchline Excel™ Plus: 103 mm dia x 325 mm x 180 mm (4.06 in dia x 12.8 in x 7.09 in) Universal Mounting Bracket: 165 mm x 165 mm x 130 mm (6.5 in x 6.5 in x 5.12 in) Mount Plate Adaptor: 210 mm x 210 mm x 127 mm (8.23 in x 8.23 in x 5 in)
Power Supply	24 Vdc nominal (18 Vdc to 32 Vdc)	Ingress Protection	IP 66/67 (Type 4X, in accordance with NEMA 250); Resistance to salt mist and sulfuric atmosphere (15-60 minutes exposure to salt air/mist; 15-60 minutes to sulfuric atmosphere)
Power Consumption (Average RMS)	Transmitter: Above +30°C (+86°F) = 3.8 W; +30°C to -30°C (+86°F to -22°F) = 5.6 W; Below -30°C (-22°F) = 11.8 W Receiver: Above +30°C (+86°F) = 3.0 W; +30°C to -30°C (+86°F to -22°F) = 4.8 W; Below -30°C (-22°F) = 7.4 W		
Output Signals	4–20 mA with HART®, Fault relay, Alarm 1 relay, Alarm 2 relay, Modbus, Bluetooth® (range up to 20 m (66 ft), depends on mobile device and environmental conditions)		

Safety Approvals**cULus:**

Class I, Division 1, Groups. B,C,D, T4, Ta -55°C to 75°C (-67°F to 167°F) Class II, Division 1, Groups. E,F,G, T4, Ta -55°C to 55°C (-67°F to 131°F) Class III Div. 1; Class I Zone 1 AEx db ia IIC T4 Gb, Ta -55°C to 75°C (-67°F to 167°F) Class I Zone 1 AEx db eb ia IIC T4 Gb, Ta -55°C to 75°C (-67°F to 167°F) Zone 21 AEx tb IIIC T100°C Db, Ta -55°C to 55°C (-67°F to 131°F); Um = 250 Vrms

IECEX:

IECEX ULD 18.0016X; Ex db ia IIC T4 Gb (for flameproof Ex d installations)
Ex db eb ia IIC T4 Gb (for increased safety Ex e installations) Ex tb IIIC 100°C Db
Tamb -55°C to 75°C (-67°F to 167°F); Um = 250 Vrms

Performance Approvals:

ANSI/FM/IEC/EN 60079-29-4

Functional Safety (SIL):

SIL 2 certified by TÜV (SÜD) to EN61508


Core Approvals

EN 50270: (EMC) IEC/EN 61000-6-4; Radio Equipment Directive 2014/53/EU
IEC/EN/UL/CSA 61010 (Electrical Safety); FCC / IC; RoHS, China RoHS

PART NUMBERS

Part Number	Version	Material	Entries	Approvals	Reserved
SLXL	E - Long Range Perimeter Monitoring Open Path Flammable Gas Detector	S = Stainless Steel	M = M25 N = 3/4" NPT	G = Global (ATEX, IECEx, UL, Marine, IN-METRO, CCCF, etc.)	X = KIT D = Demo R = RX T = TX
SLXL-ESMGXX	Searchline Excel™ Edge, Long Range: SS M25 including Small SS Mount & Bracket & Plastic Sunshade				
SLXL-ESNGXX	Searchline Excel™ Edge, Long Range: SS 3/4" NPT including Small SS Mount & Bracket & Plastic Sunshade				

ACCESSORIES

Part Number	Description
2331B1020	Large Adjustable Mounting Bracket
2017B0113	Stainless Steel Sunshade
2017B0299	Alignment Scope
2017B0218	Functional Test Filters
2017D0226	Functional Test Filters Extender
2017B0185	Gassing Test Cell
188-200-010	Intrinsically Safe Android Device Ex02-Z1-C1D1/ATEX/IECEx/NEC - with camera
188-200-020	Intrinsically Safe Android Device Ex02-Z1-C1D1/ATEX/IECEx/NEC - without camera
188-200-120	Charger (EU/UK/US/AU) for 188-200-010 and 188-200-020
188-200-130	Vehicle Charger for 188-200-010 and 188-200-020
Free Download	Honeywell Fixed Platform App 

SPARES

Part Number	Description
2331B1100	Spare Universal Mounting Bracket Plate
2017B0112	Spare Standard Sunshade (Plastic)
2331B1150	Spare Terminal Block Set (5 Pack)
2331B1160	Spare Antenna Cover (5 Pack)



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