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.

APPROVALS

Global hazardous area and performance approvals include SIL2, ATEX, IECEx, cULus, FM, INMETRO, CCCF, Ex d, Zone 1, ClassII/III and ANSI/FM/IEC/EN60079-29-41.

FEATURES AND BENEFITS

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.

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.

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.

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.

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.

MULTIPLE OUTPUTS

Multiple outputs including 4-20mA, Relays, HART®, Modbus and Bluetooth® communication.

Easily integrate the Searchline Excel™ Edge into your existing network.

Honeywell

Honeywell Searchline Excel™ Edge Technical Specifications *See product manual for full specifications.*

Technical Specifications	
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]; [1]FM Performance Approved; [2]DNV approved
Range	0–5 LEL.m; for ppm.m equivalents see manual
Recommended Alarm Setting	Low 1 LEL.m; High 3 LEL.m; for ppm.m equivalents see manual
Recommended Minimum Alarm Setting	0.5 LEL.m; for ppm.m equivalents see manual
Path Length	60 m to 330 m (196 ft to 1082 ft)
Speed of Response	T90 less than 3 seconds
Analog Output Signal	4–20 mA Normal operation, 1 mA Fault*, 2 mA Inhibit, 3 mA Warning, 21 mA Overrange. Linearized 0–5 LEL.m
Environmental Operating Temperature	-55°C to +75°C (-67°F to +167°F); DNVGL-CG-0339 Location Class B
Storage Temperature Range	-55°C to +75°C (-67°F to 167°F). DNVGL-CG-0339 Location Class B
Power Supply	24 Vdc nominal (18 Vdc to 32 Vdc)
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)
Relay Outputs	Max. 32 Vdc/ac, max. 2 A resistive load
Humidity	0–99% Relative Humidity Non-condensing. DNVGL-CG-0339 Location Class B
Pressure	91.5-105.5 kPa (915–1055 mBar, non-compensated)
Repeatability	±0.4 LEL.m; for ppm.m equivalents see manual
Temperature Drift -40°C to +65°C (-40 °F to 149 °F)	±0.2 LEL.m @ zero ±0.5 LEL.m @3 LEL.m
Warm-up Time	Less than 5 minutes (operational), less than 1 hour (fully stabilized)
Internal Battery Cell	TLH-2450, 10-year lifetime (replaced only by authorized service)
Weight	Searchline Excel™ Edge: 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
Dimensions	Searchline Excel™ Edge: 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)
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)
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

*Searchline Excel™ Plus will indicate Fault after 30s without signal. This value is programmable. To comply with FM performance approval, the maximum value for Time to Block is 200s.

Honeywell Searchline Excel™ Edge Accessories, Spares and System Part Numbers

System 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, INMETRO, 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 Google Play

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)

For more information

www.sps.honeywell.com

Honeywell Gas Analysis and Safety

9680 Old Bailes Rd, Fort Mill, SC 29707

(803) 835-8000

Contact us

US:
Tel. 800.430.5490
Fax. 800.322.1330

Canada:
Tel. 888.212.7233
Fax. 888.667.8477

informationsp@honeywell.com

THE FUTURE IS WHAT WE MAKE IT

Honeywell