



The Xtralis ICAM ILS systems provide Laser Air-sampling Smoke Detection solutions to meet the unique needs of numerous commercial and industrial applications. ILS systems are suitable for both medium sensitivity and multi-hole Class C applications.

How it Works

The ILS systems actively draw air from the protected area through sampling holes in a pipe network. Sampled air is then filtered before being analyzed by medium sensitivity laser spot (point) detectors incorporated in the systems. Alarm states (Alert, Action or Fire) are reported by activating functional LEDs in the display and dry contact relays.

The systems utilize a high performance aspirator and software configurable flow monitoring circuitry. Air flow is displayed on a ten element bar graph that can be adjusted for high and low flow thresholds, and flow failure is reported as a device fault via dedicated fault relays.

Programming & Diagnostics

The sensitivity thresholds for each of the three alarm levels, fan speed and flow sensitivity can be individually programmed. A USB interface provides a connection to a PC for system configuration. The ILS system can also be locally configured through an integrated programming interface.

Features

- Single or dual channel smoke detection
- Laser air-sampling smoke detection
- Multiple detection strategies
- 100 m (328 ft) per sampling pipe
- Microprocessor controlled and programmed
- Highest fan capacity in its class
- Integral display and programmer
- Field serviceable air filter
- Adjustable aspirator speed with airflow monitoring
- IP65 enclosure

Listings/Approvals

Equipment Approvals:

- EN54-20 (VdS)
- CE EMC
- CPD
- EN54-20 Sensitivity (holes per pipe)
 - Class A - 3 holes
 - Class B - 6 holes
 - Class C - 18 holes

Factory Approvals:

- VdS

Configuration Options & Detection Strategies

The ILS system is available with one inlet pipe (ILS-1) or two inlet pipes (ILS-2), and can be fitted with one or two detectors per system. The available options for the ILS-1 and ILS-2 systems are:

- ILS-1 system – one or two spot (point) detectors
- ILS-2 system – two spot (point) detectors

ILS-1 systems fitted with one spot (point) detector are capable of providing single area detection, but ILS-1 and ILS-2 systems fitted with two detectors can be configured for a number of detection strategies. The table below describes the possible detection strategies for ILS systems fitted with two spot (point) detectors.

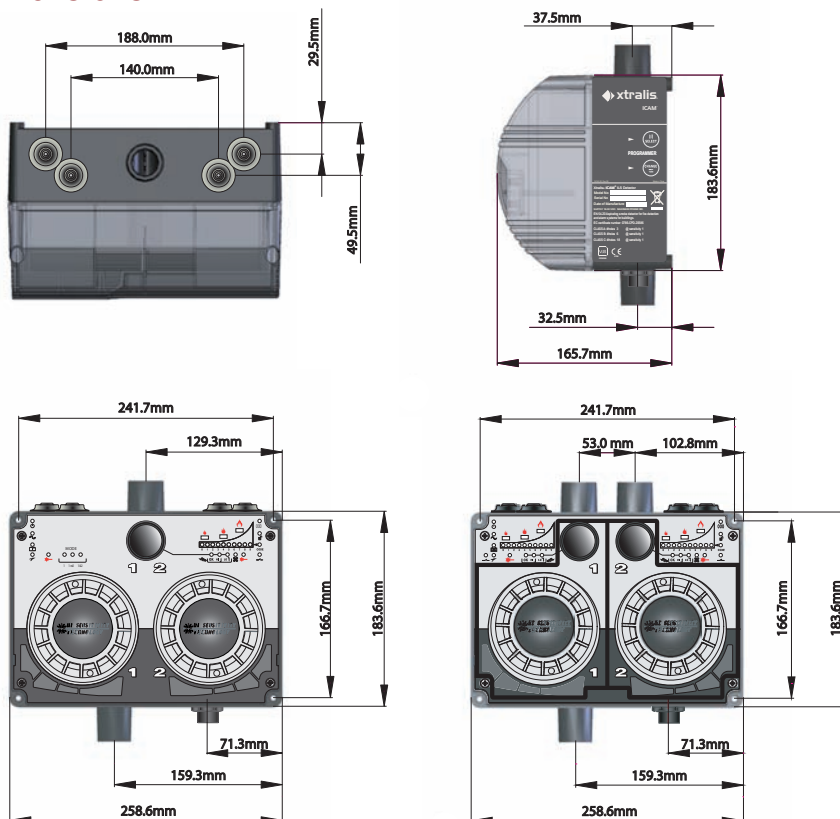
		ILS-1	ILS-2
Detection Strategy	Dual Addressable Areas		✓
	Redundancy *	✓ (OR)	
	Coincident / Double-Knock †*	✓ (AND)	✓ (AND)

* These are software programmable modes for an ILS-1 system fitted with two detectors.

† Subject to local codes and standards.

Note: (OR / AND) represents the boolean logic for combining two detectors to achieve detection strategy.

Dimensions



Ordering Information

- | | |
|---|-------|
| Laser Air-sampling Smoke Detector with 1 inlet | ILS-1 |
| Laser Air-sampling Smoke Detector with 2 inlets | ILS-2 |

Specifications

Integrated detectors:

1 or 2 Laser spot (point) detectors

Supply Voltage:

24 VDC nominal (18 to 30 VDC)

Current:

300 mA (max)

Dimensions (WHD):

259 mm x 184 mm x 166 mm
(10.2 in. x 7.2 in. x 6.5 in.)

Operating Conditions:

Temperature: -10 to 50 °C (14 to 122 °F)
Humidity: 10 to 95% RH (non-condensing)

Inlet Pipe Size:

Outer Diameter: 25 mm (1 in.)
Inner Diameter: 21 mm (0.8 in.)

Sampling Network:

Pipe Length: 100 m (328 ft.) per inlet

For VdS approved installations, please consult the manual

Sensitivity:

0.06 to 6.0 % obs/m
(0.02 to 1.83 % obs/ft)

IP Rating:

IP65

Filtration:

Serviceable filter
External filter optional

Flow Monitoring and Reporting:

High and Low adjustable

Fan Control:

10 programmable speeds

Relays:

Contacts rated at 1A @ 30 VDC, NO/NC

3 relays for ILS-1:

Action, Fire, Fault

6 relays for ILS-2:

Detector 1 - Action, Fire, Fault

Detector 2 - Action, Fire, Fault

Cable Termination:

Power Supply:

18 AWG min. (16 x 0.25 mm dia.)

Field Connections:

11 AWG max. (2.5 mm dia.)

USB:

Standard USB cable for Type B USB connector

www.xtralis.com

The Americas +1 781 740 2223 Asia +852 2916 8894 Australia and New Zealand +61 3 9936 7000
Europe, Middle East & Africa +44 1442 242 330

The contents of this document are provided on an "as is" basis. No representation or warranty (either express or implied) is made as to the completeness, accuracy or reliability of the contents of this document. The manufacturer reserves the right to change designs or specifications without obligation and without further notice. Except as otherwise provided, all warranties, express or implied, including without limitation any implied warranties of merchantability and fitness for a particular purpose are expressly excluded.

This document includes registered and unregistered trademarks. All trademarks displayed are the trademarks of their respective owners. Your use of this document does not constitute or create a licence or any other right to use the name and/or trademark and/or label.

This document is subject to copyright owned by Xtralis AG ("Xtralis"). You agree not to copy, communicate to the public, adapt, distribute, transfer, sell, modify or publish any contents of this document without the express prior written consent of Xtralis.

Doc. no. 16300_01

Part no. 29509