



Aspirating Smoke Detection



The EV-LASD is a professional, high-sensitivity air sampling smoke detector, designed for the protection of risks requiring class A, B or C design sensitivity. The unit is rugged, compact, weatherproof and highly versatile, enabling it to be used for both general area coverage and localised protection of equipment cabinets or ductwork. Areas which are subject to high levels of dust, low temperature or water ingress can also be accommodated using optional harsh environment filters, water traps and pipework heaters.

The EV-LASD utilises high sensitivity laser point detectors in an aspirated enclosure. Each detector monitors the air from separate sampling pipes, which allows for a large area of coverage using sampling holes in place of traditional point detectors.

The unit is fitted with pre-wired detector bases and has an internal EV-Mini I/P module for direct connection to the analogue addressable loop, providing alarm and fault status.

Air is drawn from the protected area through one or two perforated 25mm pipes. A powerful fan together with sophisticated air-flow monitoring and control circuitry ensures that transport delays are minimised and air-flow is kept within working limits. System status and flow control is continuously displayed (per channel), with on-board fault relays allowing remote fault monitoring. Power management ensures that operating current is kept to a minimum, allowing superior performance and optimisation of external power supply and standby battery resources.

- EN54-20 approved
- Economical, single or dual area aspirated 'fire' detection
- 1 or 2 sampling pipes each up to 100m in length
- Coverage up to 1,500m ² at class C
- 3 users configurable alarm levels per channel
- Integral Display and Programmer
- Field serviceable and/or replaceable laser detection element
- Easy to install, commission and maintain
- Low operating current
- Rugged IP65 enclosure
- Single, redundant or coincidence detection strategies

NITTAN



Mechanical

Sampling Pipe Inlets 1 or 2 (EV-LASD1 & EV-LASD2 respectively)

Detectors 1 or 2, 0.06%/m Laser Point Detectors (fitted)

Sampling Holes (Max) 18 class C, 6 class B, 3 class A

Sampling Pipe Length 100m (max) per pipe. For VdS approved installations, consult manual

Sampling Pipe Diameter 1 or 2 x 25mm or 3/4" (27mm) nominal bore

Exhaust Air Pipe Outlet 1 (25mm or 3/4")

Electrical

Supply Voltage Nominal 24Vdc (18 to 30Vdc)

Operating Current 350mA max (fan speed dependant)

Sensitivity 0.06 - 3.33% obscuration per metre, adjustable in 9 stages

Alarm Levels Programmable Alert, Fire 1, Fire 2 (per channel)
Operating Modes Single detector, redundancy, double-knock

Settings Isolate, latching, non-latching, operating mode, reset

Programming/set-up Integral control switch's and/or PC via USB

Event Log 1000 Events

Fault Monitoring Power failure (common), flow fault per channel, detector fault

Relay Outputs 2 alarm & 1 fault per channel (changeover contacts)

Cable Terminals Removable 2.0mm maximum

Display 5 common status plus 10 segment LED bargraph per channel

User Controls External weatherproof membrane - Code protected

Flow Monitoring Thermal, with adjustable high/low and sensitivity limits

Environmental

Operating Temperature -10 to +50°C

Operating Humidity 10 to 95% (non condensing)

IP Rating IP65 with exhaust pipe fitted and cable entries sealed

General

Filtration (Standard Internal) Replaceable dust particle. Harsh environment filter also available

Filtration (External)

Optional, external harsh environment filter

Housing Material

ABS with tamper-proof locking mechanism

Mounting Upright, horizontal or inverted

Weight 2.7kg

Dimension (W x H x D) 259 x 184 x 166mm Equipment Approvals EN54-20, CE, VdS, CPD