INTAKE SMOKE DETECTION SYSTEMS

ELKRON
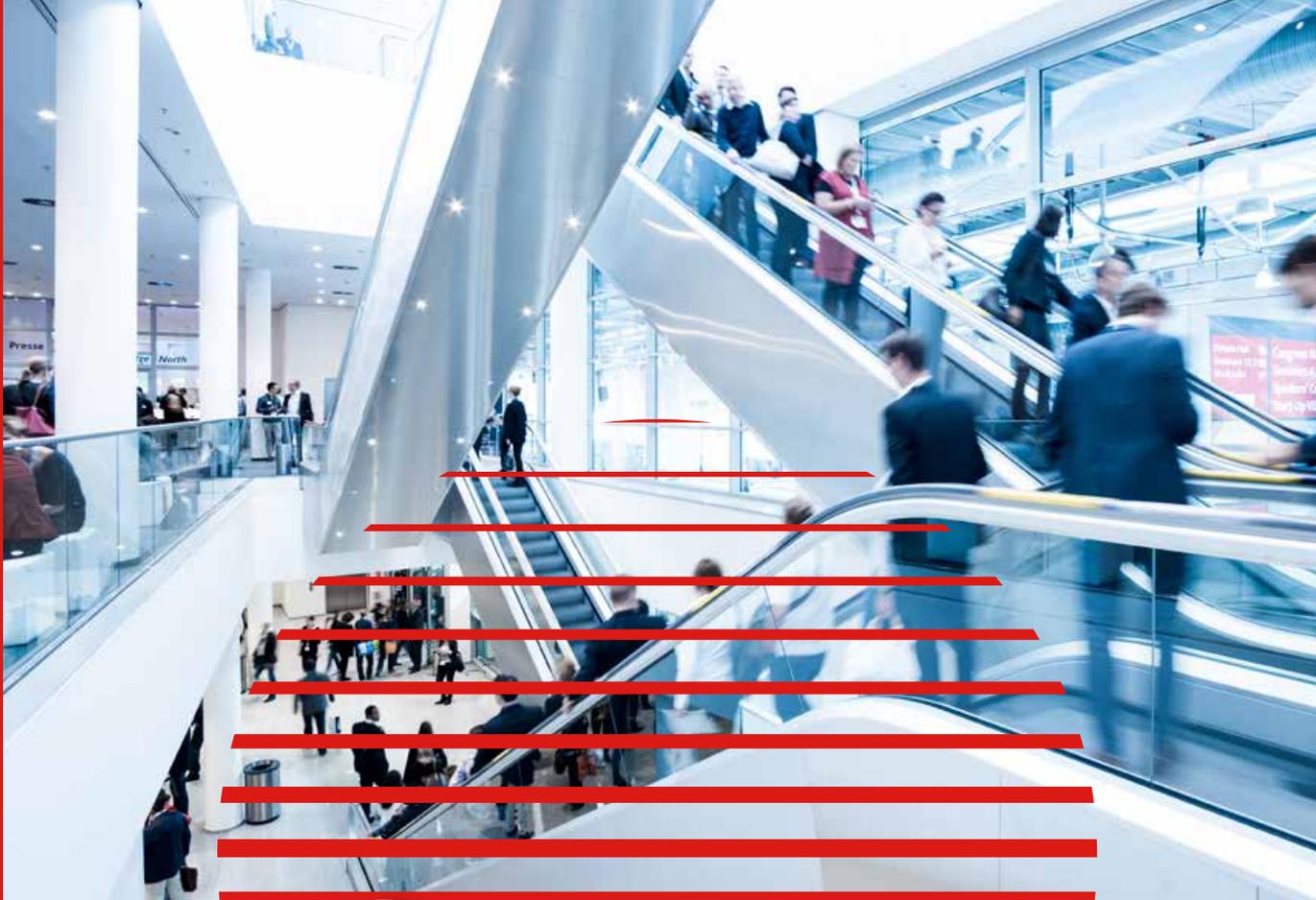The key to security

ILS-1, ILS-2 INTAKE SMOKE DETECTORS

The ILS-1 or ILS-2 intake smoke detectors take actively the air from the protected area through pipes on which sampling holes are made. The equipment features built-in smoke sensors.

Both models use a highly performing exhauster and flow control circuits able to signal hole clogging, or when the intake pipe is no longer tight. The alarm levels (no.3 per each channel) are displayed through LED, the smoke concentration value is displayed on a 10-element display and fault LEDs signal any high and low flow anomalies.

item no. 80SD1D00123

item no. 80SD1E00123

Features

✓ Number of detectors (included in the supply): 1 (ILS1) or 2 (ILS2)
✓ 1 or 2 alarm zones
✓ Sensitivity settable from 0.06÷6% Obs/m
✓ Filter: cartridge for dust. External filter option
✓ 1 or 2 x 100 m sampling pipes with ¾'' or 25 mm diameter
✓ Operating temperature: -10°÷60°C
✓ Operating humidity: 10÷95% NC
✓ Protection class: IP65
✓ Mechanical inspectionable and interchangeable filter
✓ One flow air sensor per pipe
✓ Power supply 24Vdc@300mA (typical)
✓ Relays for PREALARM, ALARM, FAILURE on each pipe (SPDT)
✓ LED display for indicating the smoke concentration in each pipe
✓ Key for quick start (programming software not required)
✓ Power supply: 24 Vdc
✓ Absorption: max 300 mA
✓ Dimensions (L x H x D): 259 x 194 x 166 mm

Applications

✓ False-ceilings, under-floors
✓ Warehouses, Shopping Centres
✓ Libraries, Museums, Buildings of high historical and architectural importance
✓ Hotels, banks, hospitals, prisons, metro stations
✓ Inaccessible areas
✓ Equipment rooms
✓ Environments with polluted or unusable atmosphere
✓ Environments where a low design impact is required

Certifications

✓ VdS
✓ CE EMC
✓ CPD EN54-20 certification with relevant classes. Possibility to operate in class A (3 holes), B (6 holes), C (18 holes).

IFT-P (PICO) LASER INTAKE SMOKE DETECTORS

The IFT-P 2-channel/single zone laser intake smoke detector takes the air sample from the area to protect, through a piping network, using an intake fan that creates negative pressure inside the sampling network. The air taken from the intake network is sent to a cylindrical analysis chamber. A laser beam crosses the chamber radially and illuminates any smoke particle that is on its path. The light caused by the distortion of the laser beam that detects the smoke particle is "captured" by the walls of the analysis chamber, analysing the quantity of distorted light and comparing it to the initial emission. A particle that causes a distortion of 0.01% of darkening/metre is already detectable.

item no. 80SD1F00123

Features

- 1 alarm zone
- 2 x 100 m sampling pipes with ¾'' or 25 mm diameter
- Detection field: 0.01% ÷ 20% Obs/m
- Reading resolution: 0.01%
- 4 Freely programmable alarm thresholds (Alert, Action, Fire1, Fire2)
- Event log (20,000 events of FIFO type)
- Mechanical inspectionable and interchangeable filter
- Calibration and monitoring of sampling flows
- Programmable intervention delays
- Optional clean air reference channel compensation
- RS232 communication, TCP/IP communication
- Digital outputs:
  - 1 common malfunction relay (SPDT)
  - 4 relays for each programmable threshold: Alert, Action, Fire1, Fire2 (SPDT)
- Remote display panel option
- 4-relay expansion card (SPDT)
- Power supply 24 Vdc
- Absorption: from 500 mA (min) to 1.2 A (max)
- Dimensions (L x H x D): 254 x 180 x 165 mm

Applications

- Automatic storages and deposits with high stacking levels
- Cold stores
- Waste treatment and collection centres
- Biomass treatment and collection centres
- Environments with normal presence of humidity or suspended particles
- Computing centres, Hospitals, Clean Rooms
- Libraries, Museums, Buildings of high historical and architectural importance

Certifications

- VdS
- FM
- UL
- CE EMC, LVD, CPD
- CPD EN54-20 certification with relevant classes. Possibility to operate in class A (16 holes/0.04% obs/m), B (72 holes/0.04% obs/m), C (72 holes/0.1% obs/m).

ACCESSORIES FOR INTAKE SMOKE DETECTORS

Pipes and accessories for the sampling network of intake detectors of ILS and IFT series comply with standard EN1368-1 class 1131. There are several accessories to create a sampling network, such as 90° elbows, 45° elbows, sleeves, closing plugs, T-shaped branch, fixing clips, capillary blocks, flexible hoses, external filters, glue, etc., specifically designed to build an excellent smoke intake system.
All components are red, so that they can be clearly distinguished from other systems or plants.

	item no. 80TU0610123 - **ABS pipe** - 25 mm diameter, red, supplied in 3 m bars.
	item no. 80RC1010123 - **ABS sleeve** - 25 mm diameter, red.
	item no. 80RC1110123 - **ABS 90° elbow** - 25 mm diameter, red.
	item no. 80RC1210123 - **ABS 45° elbow** - 25 mm diameter, red.
	item no. 80RC1310123 - **ABS pipe closing plug** - 25 mm diameter, red.
	item no. 80RC1410123 - **ABS T-shaped sleeve** - 25 mm diameter, red.
	item no. 80SF5210123 - **Mount bracket for ABS pipe.** Red.
	ITEM NO. 80RC1710123 - **Threaded union (inspectionable sleeve).** 25 mm diameter, red.
	item no. 80RE0210123 - **Glue jar for ABS pipes, 500 ml.**
	item no. 80ET0110123 - **Adhesive labels (sampling point).** Package of 100 pieces.
	item no. 80FT0410123 - **External filter for systems item no. 80SD1D00123, 80SD1E00123 and 80SD1F00123.** Complete with cartridge and adapters.
	item no. 80RC1610123 - **Capillary block.** Complete with flexible hose (2 m) and T-shaped branch.

Elkron is a trademark of Urmet S.p.A

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