



FIRE



INTAKE SMOKE
DETECTION

INTAKE SMOKE DETECTION

FAAST FLEX offers an intake smoke detection (ASD) solution highly flexible and with an excellent cost-effectiveness for several applications: medium to small warehouses, cold storage and concealed spaces (false ceilings and under-floors).

FAAST FLEX allows high levels of flexibility thanks to modular pipe networks and automatic start-up through configuration wizard and simplified monitoring system. It can be configured and started using a 10-line DIP switch without the need of special tools. FAAST FLEX is installed with little effort and in a short time by just 1 person through an installation wizard. THE detector can be directly fixed to the wall aiming it in the most convenient direction, while having space for wiring always available.

How it works

Air is drawn into FAAST FLEX by an adjustable-speed exhaustor through a network of sampling pipes.

Each pipe inlet features an air flow sensor that monitors air flow variations in the pipe.

Inside FAAST FLEX, an air sample is filtered and conveyed into the detection chamber for analysis of possible presence of even very small amounts of smoke. Air is expelled from FAAST FLEX and can be conveyed back into the protected area.



item no. 80SD1G00123
item no. 80SD1H00123

Certifications

- ✓ VdS
- ✓ EN 54-20, ISO 7240:20

Items to order

item no. 80SD1G00123	FLX-1 - 1-channel intake smoke detector
item no. 80SD1H00123	FLX-2 - 2-channel intake smoke detector
item no. 80ET0110123	AABLBS010 - Package with 100 adhesive labels for hole identification
item no. 80FT0410123	FILVSP850R - External filter
item no. 80RC1010123	AASU25R - ABS sleeve
item no. 80RC1110123	AAE2590R - 90° ABS elbow
item no. 80RC1210123	AAE2545R - 45° ABS elbow
item no. 80RC1310123	AAC25R - ABS closing plug
item no. 80RC1410123	AATEE25R - ABS T-shaped sleeve
item no. 80RC1610123	AAUF2510TFS - Capillary block
item no. 80RC1710123	AABISU25RISP - Inspectionable sleeve
item no. 80RE0210123	AAABSC - Glue can
item no. 80SF5210123	AATPD25R - Mount bracket for pipe
item no. 80TU0610123	AAP25R - ABS pipe

Functions

- ✓ Reliable smoke detection for consistent performance and minimized false alarms.
- ✓ Single-channel and dual-channel version with coverage of areas up to 1600 m² for single-channel version and up to 2000 m² for dual-channel version.
- ✓ Optional double-knock alarm (dual-channel version).
- ✓ Pipe lengths up to 270 m for single-channel version and up to 420 m for dual-channel version allow extended coverage and installation in an easy accessible location of the detector.
- ✓ Class A, B, C performance allowing:
 - 1-channel models: 5, 15, 32 holes, respectively
 - 2-channel model: 8, 28, 56 holes, respectively
- ✓ An ultrasound flow monitoring element for chamber for accurate and reliable detection.
- ✓ A metal mesh filter for chamber for optical protection and to increase the detector lifespan.
- ✓ Activation, Alarm and Malfunction relays for channel for connection to FACP and BMS systems.
- ✓ Simplified and user-friendly LED user interface for immediate status indication.
- ✓ Modular pipe network for tailored design and installation in the protected environment.
- ✓ Two configuration methods:
 - Automatic with configuration wizard and simplified control mechanism for quick start-up
 - Advanced for adaptation to specific needs
- ✓ Installation wizard, several installation directions (straight, overturned) and wide space for wiring to save time and effort.
- ✓ Silent operation (30 dB) with adjustable fan speed for adaptation to various environments.
- ✓ Suitable for cold storage environments with operating temperatures up to -40 °C.
- ✓ General Purpose Input (GPI) for remote Reset, Deactivation, External Failure functions.
- ✓ Password-protected access for use, diagnostics and maintenance.
- ✓ Class IP40 for protection against penetration of foreign bodies.
- ✓ Built-in event log for up to 2100 events related to user interventions and smoke trends.

Architectural/engineering specifications

ELECTRICAL SPECIFICATIONS

DYNAMIC DETECTOR SENSITIVITY	
Supply voltage	24 V dc (18 - 30 V dc)
Maximum current consumption	Single-channel model: 400 mA @24 V dc Dual-channel model: 450 mA @24 V dc
Relays	3 per channel, Activation, Alarm and Malfunction 2 A @30 V
Detector sensitivity range	From 0.05% obs/m to 6.56% obs/m

ENVIRONMENT SPECIFICATIONS

OPERATING CONDITIONS	
Operating temperature	From -40 °C to 55 °C
Sampled air temperature	From -40 °C to 55 °C
Humidity	10-93% RH
Protection class against penetration of foreign bodies	IP40



Architectural/engineering specifications

GENERAL SPECIFICATIONS

Number of flow sensors	1 per channel		
Alarm level	Activation and Alarm per channel		
Fan setting	Adjustable		
Area coverage	Single-channel model: 1600 m ² Dual-channel model: 2000 m ²		
Pipe network layout	Single-channel model	Linear pipe length	1 x 105 m
		Junction pipe length	2 x 105 m
	Dual-channel model		Linear pipe length
		Junction pipe length	4 x 105 m 8 x 49 m
Sampling holes	Single-channel model: A, B, C: 5, 15, 32		
	Dual-channel model: A, B, C: 8, 28, 56		
General Purpose Input (GPI)	Reset, Deactivation, External Failure		
Automatic configuration	DIP switches		
Components replaceable on site	Monitoring Module, Metal Filter, Front Cover, Exhauster, Internal Cover Set and Adapter Kit		
Data recording	System Information, Configuration, Active Statuses and Event Log		
Communication	USB and Bluetooth		
Warranty	3 years		

MECHANICAL SPECIFICATIONS

Dimensions (L x H x D)	280 mm x 205 mm x 80.5 mm
Weight	1.7 Kg
Display panel	LED

