Aspirating smoke detection system
AMX4004, basic devices

AMX4004

Part no.: 909244

The aspirating smoke detector AMX4004 is an active smoke detection system that can be individually tuned to the application area with up to three different detector heads. Up to 12 suction holes with a 100 m (328 ft) pipe system are possible thanks to the powerful fan.

Product features

- Up to three combined sensors can be used for different application areas (scattered light smoke sensor, ionisation smoke sensor, carbon monoxide gas sensor)
- High aspiration capacity
- Scattered light smoke sensors for different sensitivity ranges, with pollution compensation for use in critical environments
- Ionisation smoke sensor for detecting very small and dark smoke particles
- Carbon monoxide gas sensor for earliest fire detection (40 ppm CO)
- Integrated LC display for indicating status information
- Configurable without accessories (menu-controlled)

Application

Aspirating smoke detector for the detection of smoke particles and/or fire gases in aspirated air samples.
The system actively draws air samples from the monitored area via a pipe system.

Typical application areas are:
- Equipment monitoring: computer rooms, warehouses, high rack storage areas, hollow floors.
- cultural assets protection, transformer stations, etc.

Included in delivery

1 Aspirating smoke detector AMX4004	909244

Not included in delivery

Detector heads:

Optical smoke detector OMX1002C 1HU, 2.73 % / m (0.83 % / ft)	906323
Optical smoke detector OMX1002C HS 1HU, 0.34 % / m (0.10 % / ft)	906324
Optical smoke detector OMX1002C VHS 1HU, 0.11 % / m (0.04 % / ft)	910389
Ionisation smoke detector IMX1002E 1HU, y=0.8	909491
Carbon monoxide gas detector GMX1002CO 1HU, 40 ppm	909492

Technical specifications

Operating voltage	18 V - 30 V DC
Rated voltage	24 V DC
Measuring principle	dependent on detector heads
Max. current consumption	Detector approx. 400 mA
Max. contact load	60 V DC, 1 A
IP rating	IP 54
Ambient temperature	-20 °C to +50 °C (-4 °F to +122 °F)
Sampling pipe	25 mm (0.98 inch)
Sampling pipe length	max. overall length 100 m (328 ft) max. 50 m (164 ft) as single strand
Relative humidity	max. 95 %, at 35 °C (+95 °F), no condensation
Enclosure material	Die cast aluminium
Cable gland	4 x M16, clamping range 5-9 mm (0.19 - 0.35 inch)
Weight without detector head	3.4 kg (7.5 lbs)
Dimensions without cable gland	280 x 170 x 90 mm (WxHxD) 11.02 x 6.7 x 3.5 inch (WxHxD)

Note

The AMX4004 uses three conventional lines for three alarms as well as one fault line for connection to the fire alarm panel FMZ 5000. In addition floating contacts for three alarms as well as fault are available.

Approvals / marking

VdS G 212001 CE 0786-CPD-21095 GL

VIKING

Aspirating smoke detectors
HELIOS AMX5000

AMX5004 C

Part no.: 923277

The HELIOS AMX5004 C aspirating smoke detector is a highly sensitive active smoke detection system of the latest generation. In addition to monitoring advance signals and contamination, it also provides the option of the user-specific adjustment of the sensitivity. The powerful fan enables up to 12 sampling holes with 75 m (246 ft) pipe system per smoke sensor. The HELIOS AMX5004 C is even able to detect the smallest smoldering fires and can be used practically everywhere.

Product features
- Airflow monitoring
- Adjustable sensitivity of 0.006 - 10 % / m (0.0018 - 3.049 % / ft)
- Highly sensitive smoke sensors with contamination compensation for use in critical environments
- Full integration into fire alarm system FMZ 5000

Application
Aspirating smoke detector for the detection of smoke particles in aspirated air samples. The system actively takes air samplings in from the monitored area via a pipe system.

Typical applications:
- Equipment monitoring: IT systems, electrical distributors, switch cabinets, etc.
- Room monitoring: IT rooms, clean rooms, warehouses, hollow floors, protection of cultural assets, transformer stations, etc.

Technical specifications

Operating voltage	14 - 30 V DC
Rated voltage	24 V DC
Alarm sensitivity	0.02 % / m - 10 % / m (0.006 % / ft - 3.049 % / ft)
Pre-Alarm signals 1,2,3	4 (3 pre signals fix adjusted) 30 / 50 / 70 %
Max. current consumption	75 mA
Number of relays	2 (1 alarm, 1 fault)
Max. contact load	50 V DC, 1 A (UL 30 V DC)
IP rating	IP 54
Ambient temperature	-10 °C to +55 °C (VdS) (14 °F to +131 °F) (VdS) -10 °C to +40 °C (UL) (14 ° F to 104 °F) (UL)
Intake pressure	> 30 Pa
Suction noise at fan level 1	< 25 dB (A)
Number of installation spaces for add-on modules	1 Relay interface module HELIOS AMX5004C
Sampling pipe	Plug-in system 25 mm (0.98 inch)
Relative humidity	max. 95 % no condensation
Enclosure material	ABS-Blend, UL 94-V0
Specification according to	UL 268, EN 54-20
Weight	1950 g (4.3 lbs)
Dimensions	195 x 290 x 140 mm (WxHxD) 7.7 x 11.4 x 5.5 inch (WxHxD)

Included in delivery
1 Aspirating smoke detector AMX5004 C with smoke sensor OMX5020S

Not included in delivery
Memory card SD HELIOS AMX5004 C	925156
Relay-interface module KMX5006RK	924106

Spare parts
Smoke sensor OMX5020S	924107
Air flow sensor AFS 32	925155

Note
The HELIOS AMX5004 C can be connected to a higher-level fire detection panel via potential-free changeover contacts. The HELIOS AMX5004 C can be integrated into the FMZ 5000 fire detection system with LoopAP via modules. Indication and operation are thus possible at the panel.

Approvals / marking
VdS G 217082 (UL)