Cool down.
Fire Protection by

minimax

HELIOS AMX5000
aspirating smoke detector series

► Product   ► Use   ✚ Advantages

► The HELIOS AMX5000 aspirating smoke detector is a highly sensitive, active, latest-generation smoke detection system. In addition to a pre-signal and contamination assessment, the detector also offers the possibility of adjusting the sensitivity in accordance with the unit's use.

► The HELIOS AMX5000 identifies even the smallest smouldering fire and can be used almost anywhere.

The HELIOS AMX5000 is also suitable for room and object observation thanks to its excellent response characteristics.

► Typical areas for use are:
– High-bay warehouses and distribution centres
– False ceilings and double floors
– IT and computer centres
– Telecommunication centres
– Clean rooms
– High- and low-voltage distribution panels
– CNC controllers

After installation, the pipe system is largely invisible, thus ensuring protection for cultural possessions and optimum suitability for prison cells and aesthetically demanding architecture.
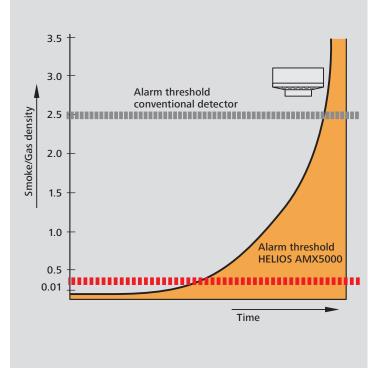
✚ Auto-learning function.

✚ Separate air stream monitoring with one or two suction lines.

✚ Adjustable sensitivity from 0.002–10%/m.

✚ Excellent suction power (more than 400 Pa negative pressure).

✚ Highly sensitive smoke detectors with contamination balance for use in critical areas.

✚ The VdS-tested HELIOS PipeCalc calculation software ensures efficient, asymmetrical pipe installation.

✚ Can be completely integrated with the Minimax FMZ 5000 fire alarm system.

✚ Simple configuration and start-up of standard devices using HELIOS EasyConfig.

The HELIOS AMX5000 aspirating smoke detector consists of one or two independent suction lines with suction opening and one highly sensitive smoke sensor. Each suction line is constantly monitored via an air stream monitoring system in order to identify pipe breaks and dirt at the suction opening. A high-power fan sucks air from the area or device to be monitored through the suction line to an evaluation unit. Here, the air is constantly evaluated by the smoke sensors. The display and operating fields of the evaluation unit show the smoke concentration in the aspirated air, in addition to other alarm, fault and status notifications. Any increase in the smoke concentration is identified extremely quickly. Three pre-signals and one main alarm can be programmed, which can be transferred to the LoopAP via a potential-free relay or module.

Smoke/Gas density

Alarm threshold conventional detector

Alarm threshold HELIOS AMX5000

Time

The HELIOS AMX5000 product range consists of the following basic devices:

Basic devices aspirating smoke detector

AMX5001	1 aspiration pipe/smoke detector
AMX5002	2 aspiration pipes/smoke detector
AMX5101	1 aspiration pipe/smoke detector
AMX5102	2 aspiration pipes/smoke detector/ smoke level indication

Applicable smoke detectors

OMX5005	smoke detector 0.5–10%/m sensitivity
OMX5010	smoke detector 0.1–10%/m sensitivity
OMX5020	smoke detector 0.02–10%/m sensitivity

Extension modules

MMX5005	Optional memory card connection with SD memory card
KMX5005 RK	Optional relay module with 5 relays

Permitted voltage range	10.5–30 V DC
Alarm sensitivity	0.02%/m–10%/m (0.00087–0.457 dB/m)
Pre-signals 1, 2, 3	0.002–10%/m, programmable in 10% levels
Approvals	VdS G208193, CE
Operating environment temperature	−20 – +60 °C
Protection class IEC529	IP 54 (attained without limitations)
Casing measurements	397 x 265 x 146 mm (l x w x h, with insertions)
Suction pressure	> 400 Pa (power level 5)
Suction noise	43 dBA (fan level 3, standard), 32 dBA (fan level 1), meets ISO 11690-1: Directive for low-noise workplaces containing machinery

Subject to technical modification