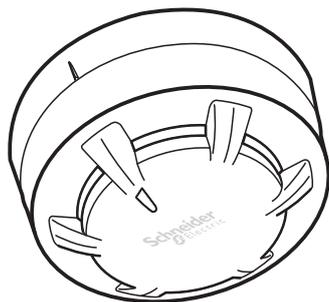


IHC Control® Alarm optical smoke sensor



EDC-20

Use

The smoke sensor is used to detect smoke. It does not have an internal sound emitter and must therefore be connected to internal IHC Control sounders. A sensor must be placed between bedrooms and possible sources of fire, such as kitchen, garage, fireplaces, etc. If there are more sleeping places, one sensor should be placed for each room. The smoke sensor must be installed with the IHC Control Alarm backup module, in order for the Building Regulations for small houses, Section 4.3.10, to be met. The smoke sensor can be used in specially contaminated environments (garages and workshops) where exhaust and vapor may occur. Can only be used with FFS06724020.

Design

The smoke sensor is designed with an optical smoke chamber. The smoke sensor is supplied from the IHC system via the Alarm backup module. The alarm signal is transmitted from the relay switch to an IHC input. The smoke sensor is equipped with a LED that changes color depending on the condition:

- Off = Normal Mode (no alarm)
- Red = Alarm

- see the section "LED signaling".

Placement of smoke detectors

1. Place the smoke sensor in the ceiling at least 50 cm from the wall.
2. Avoid placing the smoke sensor at dead angles where the smoke will not flow.
3. The smoke sensor must only be mounted horizontally. However, it is allowed to mount it with a slope of up to 20° relative to horizontal.

Connecting to IHC Control Alarm

The following should be used when installing the smoke sensor:

- Relay Base 120B1285 (required).
When connecting to the IHC control alarm, relay base must be used. See the instructions for this for connection.
- IHC Control Alarm Sound emitters (required).
Internal sound: As an alarm, at least one IHC Control Alarm is required. Since the signal must be able to be heard throughout the house, it may be necessary to use more sound emitter.

- IHC Control keypad (mandatory). To reset the alarm, a keypad must be installed. A suitable product for this purpose is the "Mode switch for IHC Control® Alarm". The reset functionality is programmed in IHC Visual.

Lock smoke detector

It is possible to remove a piece of plastic in the socket (shown in figure 2.b) with a knife so that a snap lock is activated when the smoke sensor is turned on the base unit. Then use a small stick, for example a 1.5 mm Allen key to deactivate the lock so that the smoke sensor can be removed again. This, to some degree ensures that a smoke detector is not removed by unauthorized people.

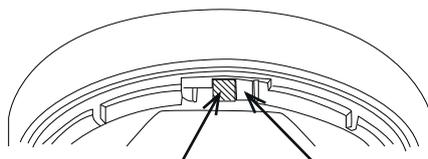


Figure 2
a) Remove this to permanently disable lock.
b) Remove this to activate lock.

When the smoke detector is locked, it can be unlocked from the socket by inserting a 1.5 mm Allen key into the small hole on the smoke sensor surface and gently pushing the handle out while turning the smoke sensor counter-clockwise.

If the locking mechanism in the socket has been erroneously activated, the socket can be converted back to a non-locking shelf by removing the smoke sensor and cutting the small piece of plastic away as shown in figure 2. It is now permanently a non-secured shelf.

Test

The smoke sensor must be tested at least once a year. The test should be performed by a skilled person using test smoke, and should include the entire system including the sound emitter.

LED signaling

Feature	Description	Red LED status	Yellow LED status
StartUp	Confirms that the detectors are wired in the correct polarity	Flashes once per second	No flash
FasTest	Maintenance procedure, takes just 4 seconds to functionally test and confirm detectors are functioning correctly	Flashes once per second	No flash
DirtAlert	Shows that the drift compensation limit has been reached	No flash	Flashes once per second in StartUp (stops flashing when StartUp finishes)
SensAlert	Indicates that the sensor is not operating correctly	No flash	Flashes every 4 seconds (flashes once per second in StartUp)
Normal peration	At the end of StartUp and FasTest (without flashing LED as standard)	No flash	No flash
Flashing LED Version	Detectors red LED flashes in normal operation (at the end of FasTest)	Flashes every 4 seconds	No flash

Accessories

IHC Control® Alarm Backup Module (mandatory for new buildings)

The Danish building regulations for small houses, section 4.3.10, states: Each housing must be equipped with smoke alarm systems that are connected to the power supply and with battery backup "(only for houses with building permit granted after 01.12.2004).

To meet this requirement: Connect the LK IHC Control® Alarm backup module.

IHC Control Alarm® Voice Modem (additional security)

To ensure quick intervention, the alarm should be sent via the IHC Control Voice Modem.

Technical data

Operating voltage	8,5-33 V DC
Power-up time	< 20 s
Minimum 'detector active' voltage	6 V
Current consumption, max.	Normal operation (no alarm): 8 mA Alarm: 40 mA. Please note that the base relay current consumption is included.
Operating temperature	-40 °C to +70 °C
Humidity	5 - 95% relative, no condensation.
Diameter	97 mm (100 mm in base relay)
Height	31 mm (46 mm in base relay)
Weight	75 g
Reset alarm	Alarm is reset by briefly disconnecting the power supply to the smoke alarm.
Max. cable dimension in terminals	1,5 mm ²
Color	White