



Wireless Smoke Detector RM-LES900





- · Battery powered
- Self-test button
- · Easy to program to the TeleAlarm Carephone
- Inbuilt optical and acoustic alarm
- · Battery monitor

In the event of smoke caused by a fire, the Wireless Smoke Detector issues a local, high-volume alarm tone and the LED blinks every 0.5 seconds. At the same time, the radio module transmits a signal to the Carephone which then triggers a call to the Alarm Receiving Centre.

System Overview

The Wireless Smoke Detector is compatible with the following TeleAlarm Carephones: HTS10, HTS12, HTS52+, HTS62, TA72 and TA74.

It consists of three components:

- Smoke detector alarm head 1.
- 2. Upper radio base component
- 3. Lower radio base component

The Wireless Smoke Detector is particularly suitable for early fire detection when smoke develops. It detects visible, light-coloured smoke, which frequently occurs before the development of flames and heat. When smoke is detected, the Wireless Smoke Detector emits a loud alarm sound which will continue until the source of the smoke is removed or extinguished and as long as the detector remains functional. At the same time, the radio module transmits a signal to the Carephone

This means that the fire brigade can be notified at the earliest opportunity. Smoke detectors are subject to certain technical limitations and do not always react to all situations. For example, they do not react to the presence of gases, flames, heat or thick, black smoke.

Functions

The radio transmitter module is accommodated in the radio base of the Wireless Smoke Detector. The radio transmitter module in the upper component of the radio base and the alarm head are each powered by their own battery. The smoke detector alarm head has a minimum operational life of 8 years. The end-of-life date is printed on the back. The battery of the alarm head is designed to last for the entire operational life of the device. After the expiry date, the alarm head must be replaced. The radio transmitter module is also designed

for an operational life of a minimum of 8 years. The battery is replaceable.

The optical Wireless Smoke Detector is based on the scattered light principle. A light source and a photodiode are arranged in the measurement chamber so that no light hits the photodiode normally. Light only scatters if smoke particles penetrate the measurement chamber. In this case the light beam is reflected by the smoke particles and this is detected by the photodiode. The evaluation unit generates an alarm if the detected value exceeds a specific threshold. Pressing the alarm head in assembled condition can manually trigger an alarm. The correct mode of operation on site and the alarm transmission can be tested using the Carephone. The test function is also used to register the Wireless Smoke Detector with a Carephone.

The detector uses radio technology, so that no cable needs to be laid. For installation, only the lower component of the base needs to be mounted using two screws.

Certificates and Permits

Certification Region CF Europa

RED 2014/53/EU LVD 2014/35/EU EN 14604:2005 + AC:2008 IEC 62368-1 2014 +Corr.1 2015 EN 300 220-2 V3.1.1 EN 301 489-1 V2.2.0 EN 301 489-3 V2.1.1

EN 50130-4

Smoke Detector



Recommended installation

Installation on the ceiling is possible up to a height of a ma-

The minimum distance between walls/furniture and the detector should be 50cm.

Avoid contamination, e.g. from dust, soot, steam and condensate water.

Installation

The Wireless Smoke Detector is intended only for use in residential spaces. It must be installed within the receiver range of the TeleAlarm Carephone. The Wireless Smoke Detector should ideally be mounted on the ceiling.

Programming

The Wireless Smoke Detector has an individual coding, which must be registered with the Carephone.

Scope of Delivery

Number Compoments

Funk-Rauchmelder-Alarmknopf

2 Montagegehäuse 3 Senkschrauben

2 Dübel

Bedienungsanleitung 1

Order Information

Order number

T.240.001.281

Wireless smoke detector

RM-LES900

Technical Data

| Wireless Smoke Detector RM-LES900 | |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|
| Battery type - Alarm head: | CR17345-Duracell or CR123A Huiderui internal, non-replaceable |
| - Radio module: | CR 1/2AA –Varta 3.6V Lithium |
| Battery life | min. 8 Jahre |
| Operating temperature | 4 °C bis +38 °C |
| Storage temperature | -20 °C bis +60 °C |
| Relative humidity | max. 90 % |
| Acoustic signals | Siren, normally 85 dB (at 1m distance) |
| Optical signals | LED |
| Monitored area | 40 m² |
| Dimensions (H x Ø) | 50 x 87 mm |
| Weight | c. 97 g |
| Material and colour | White plastic |
| Wireless Smoke Detector | |
| Detection principle | Scattered light principle |
| Duration of alarm | Inbuilt alarm: continues until the alarm criterion (smoke) dissipates. One radio signal per fire event. |
| Function test | Trigger alarm at alarm head |
| Optical signal | Red LED blinks (indicates with no acoustic signal that the device is ready to operate) |
| Acoustic signal | Loud, pulsating acoustic signal, c. 85dB(A) |
| Radio Module | |
| Transmission frequency | 869,2125 MHz |
| Bandwidth | 25 kHz |
| Modulation type | FSK (Frequenzumtastung) |
| Frequency deviation | ±3 kHz |
| Output power | 0.5mW |
| Free field range | c. 200 m |
| Code signalling to the Carephone | TA protocol |

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