

Automatic RF Detectors

Series FI700/RF



- **Bi-directional digital communication with RF Interface FI700/RF/W2W**
- **Optical Smoke Detector
Optical-Thermal Detector
Thermal Detector**
- **High range of radio transmission – up to 3km**
- **Long battery life – up to 5 years**
- **Base and batteries included**



Description

The automatic RF detectors Series FI700/RF communicate with the fire detection control panel via a loop RF Interface FI700/RF/W2W or a conventional RF Interface FI700/RF/CWE. The radio detectors are especially suitable for areas where cabling is impossible or uneconomical.

The **Optical Radio Detector FI700/RF/O** uses an optical sensing chamber, based on the light scattering principle, and offers superior wide-spectrum detection of smoke aerosols generated by the majority of fires.

The **Optical-Thermal Radio Detector FI700/RF/OT** includes both an optical sensing chamber for smoke detection as well as a thermal rate-of-rise detection unit according to EN 54-5 Class A1R. The combination of both sensors ensures a high immunity to false alarms.

The **Thermal Radio Detector FI700/RF/T** uses a thermal rate-of-rise detection unit according to EN 54-5 Class A1R. The detector reacts to a quick rise in temperature as well as to a maximum temperature of 58°C.

7 data channels in the frequency band 868MHz are available for the bi-directional data transmission. The RF system is configured by means of the PC software

WireEx. During the configuration process, the detector address is set in the range 2 to 240. In addition, the sensitivity of the optical sensor of each Optical Radio Detector and Optical-Thermal Radio Detector can be selected out of 3 levels.

For the power supply of the detectors, two batteries have to be installed into the detector housing. Normally, the detector is powered by the main battery. However, if the main battery fails, the secondary battery powers the detector.

The bi-colour LED indicator with 360° visibility indicates the activated condition of the detector as well as further operating conditions.

The automatic RF detectors Series FI700/RF are integrated in a white housing and are designed for indoor mounting. The detectors are delivered with a mounting base and both batteries.

If desired, the detectors and bases are also available in special designs – with wood grain, marble design or metal surface.

The base is equipped with an anti-tamper locking feature. Furthermore, the removal of the detector is transmitted to the RF interface.



0832-CPD-1069
0832-CPD-1070
0832-CPD-1068

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Specifications

Operating voltage	lithium battery 3V, type CR123 (main battery) lithium battery 3V, type CR2032 (secondary battery)
Battery life	max. 5 years (main battery) approx. 2 months (secondary battery, after failure of main battery)
Range of radio transmission (free air)	max. 200m max. 3km with expanders
Frequency band	868MHz
Data channels	7
Ambient temperature	-30°C to +55°C
Dimensions Ø × H	110 × 65 (mm, incl. base)
Colour	white
Weight	130g (without batteries, with base)

Optical Radio Detector

Sensitivity	
Level 1	2.0%/m
Level 2	2.5%/m
Level 3	3.0%/m
Approvals	LPCB 928k/01 0832-CPD-1069
Order number	241082
Order name	Optical Detector/700/RF/Complete FI700/RF/0

Optical-Thermal Radio Detector

Sensitivity optical sensing chamber	
Level 1	2.0%/m
Level 2	2.5%/m
Level 3	3.0%/m
Alarm temperature	58°C (Class A1R)
Application temperature	max. +50°C
Approvals	LPCB 928m/01 0832-CPD-1070
Order number	241083
Order name	Optical-Thermal Detector/700/RF/Compl. FI700/RF/OT

Thermal Radio Detector

Alarm temperature	58°C (Class A1R)
Application temperature	max. +50°C
Approvals	LPCB 928j/01 0832-CPD-1068
Order number	242081
Order name	Thermal Detector/700/RF/Complete FI700/RF/T

Lithium battery CR123

Order number	249215
Order name	Lithium Battery 3V CR123

Lithium battery CR2032

Order number	249218
Order name	Lithium Battery 3V CR2032

