## **Automatic RF Detectors** Series FI720/RF

- Bi-directional digital communication with RF Interface FI720/RF/W2W
- Optical Smoke Detector **Optical-Thermal Detector** Thermal Detector
- High range of radio transmission - up to 3km
- Long battery life of 8 years
- Base and batteries included



## **Description**

The automatic RF detectors Series FI720/RF communicate with the fire detection control panel via a loop RF Interface FI720/RF/W2W or a conventional RF Interface FI720/RF/CWE. The radio detectors are especially suitable for areas where cabling is impossible or uneconomical.

The Optical Radio Detector FI720/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 FI720/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 FI720/RF/T can be parameterised as thermal detector according to EN 54-5 Class A1R or Class BS. Therefore, the detector reacts to a guick rise in temperature as well as to a maximum temperature of 58°C or to a maximum temperature of The base is equipped with an anti-tamper locking fea-78°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 WirelEx. 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, which reliably power the detector over a long time.

The two multicoloured LED indicators with 360° visibility indicate the activated condition of the detector as well as further operating conditions.

The automatic RF detectors Series FI720/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.

ture. Furthermore, the removal of the detector is transmitted to the RF interface.







## **Specifications**

Operating voltage	2 lithium batteries 3V, type CR123
Battery life	typ. 8 years
Range of radio transmission (free air)	max. 200m max. 3km with expanders
Frequency band	868MHz
Data channels	7
Ambient temperature	-10°C to +55°C
Dimensions Ø × H	110 × 65 (mm, incl. base)
Colour	white
Weight	190g (with batteries and base)

Optical Radio Detector	
Sensitivity Level 1 Level 2 Level 3	3.1%/m 3.8%/m 4.4%/m
Approvals	LPCB 928k/02 0832-CPR-F1937
Order number	241192
Order name	Optical Detector/720/RF/Complete FI720/RF/O
Optical-Thermal Radio Detector	
Sensitivity optical sensing chamber Level 1 Level 2 Level 3	3.1%/m 3.8%/m 4.4%/m
Alarm temperature	58°C (Class A1R)
Application temperature	max. +50°C
Approvals	LPCB 928m/02 0832-CPR-F1938
Order number	241193
Order name	Optical-Thermal Detector/720/RF/Compl. FI720/RF/OT
Thermal Radio Detector	
Alarm temperature	58°C (Class A1R) 78°C (Class BS)
Application temperature	max. +50°C (Class A1R) max. +65°C (Class BS)
Approvals	LPCB 928j/02 0832-CPR-F1936
Order number	242087
Order name	Thermal Detector/720/RF/Complete FI720/RF/T

Lithium battery CR123	
Order number	249215
Order name	Lithium Battery 3V CR123



