

21314 - LRDFT - Multi-Criteria DC IP41 Fire Detector

Revision: 04 | Creation Date: 2025-06-18 | Revision Date: 2025-08-13



Model:21314 | LRDFT



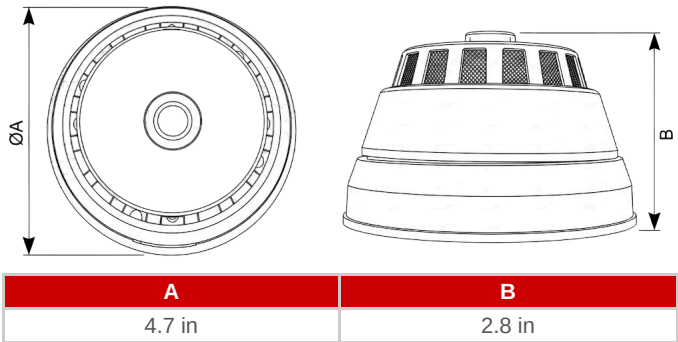
Application

The Multi-Criteria Fire Detector combines optical smoke detection and thermovelocimetric sensing for reliable fire detection, for installation in commercial, industrial, and residential buildings. Suitable for indoor use (IP41).

Operation

When smoke or heat is detected, the device transmits a wireless alarm signal to the control panel.

Dimensions



Standard Features

- Wireless protocol — 2.4 GHz, ISM band (Industrial, Scientific and Medical).
- Battery-powered: 2 × AA alkaline — up to 48 months autonomy.
- Optical smoke detection combined with thermovelocimetric measurement.
- 128-bit AES encryption; restricted to enrolled installation unit.
- Tamper detection: removal alert at control panel within 2 seconds.
- Low-battery alert and level indication at the control panel.
- Equipment fault indication at the Fire Detection and Alarm Panel within 5 minutes.

Product Certifications:



Specifications

ENVIRONMENTAL CHARACTERISTICS	
Ingress Protection	IP41
Operating temperature	-10 to 55 °C
Storage temperature	0 to 40 °C
Relative humidity	10% to 95%
ELECTRICAL CHARACTERISTICS	
Normal operation current	≤ 8 µA
Triggering current	≤ 600 µA
Power supply	2 AA Alkaline Batteries — Model E91 Energizer
Battery life	Up to 4 years
DIMENSIONS	
Diameter × Height	ø 4.7 × 2.8 in
Packaged dimensions	5.5 × 4.7 × 2.6 in
Weight	250 g

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Specifications

RADIO FREQUENCY — 802.15.4	
Operating channels	11 to 26 (default 26)
Network encryption	AES 128-bit
Data transfer rate	256 kbps
Modulation	O-QPSK
Antenna gain	1.86 dBi
TX power	≤ 20 dBm
Sensitivity	-102 dBm
Antenna type	Internal
Indoor range	120 m
Outdoor range (line of sight)	1,500 m
Standard	802.15.4

LED Indicators

LED	State	Description
	Blue Tamper	Sensor removed or poorly seated.
	Green Stand By	Device operational.
	Red Alarm	Device triggered.