

21324 - LRDEF - Inter-Lining Multi-Criteria DC IP41 Fire Detector

Revision: 01 | Creation Date: 2026-06-05 | Revision Date: 2026-08-11



Model:21324 | LRDEF



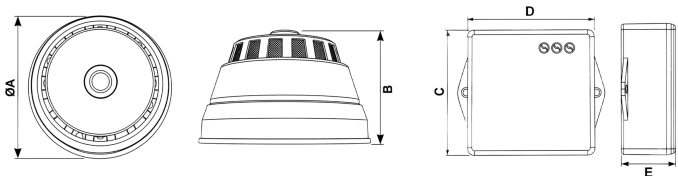
Application

The Inter-Lining Multi-Criteria Fire Detector combines optical smoke detection and thermovelocimetric sensing in plenum and drop-ceiling spaces, 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



A	B	C	D	E
4.7 in	2.8 in	3.0 in	2.4 in	0.9 in

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	5.9 × 5.1 × 3.0 in
Weight	410 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	80 m
Outdoor range (line of sight)	1,000 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.