

Tech specs

EN54 LINE

EN54 FireProtect (Heat/Smoke) Jeweller

Wireless addressable point heat and smoke detector



Device compatibility

Check

Communication

📶 Jeweller communication technology

Proprietary wireless communication technology to transmit commands, alarms, and events.

Key features:

- Two-way communication.
- Advanced sabotage protection.
- Block encryption featuring a dynamic key.
- Instant notifications.
- Remote control and configuration in Ajax apps.

[Learn more >](#)

Frequency bands

866.0–866.5 MHz

868.0–868.6 MHz

868.7–869.2 MHz

905.0–926.5 MHz

915.85–926.5 MHz

921.0–922.0 MHz

Depends on the sales region.

Maximum effective radiated power (ERP)

up to 20 mW

Automatic power control to reduce power consumption and radio interference.

Radio signal modulation

GFSK

Radio communication range

up to 1,700 m

Between the device and control and indicating equipment (CIE) or a range extender in an open space.

Calculate radio communication range at the facility >

Encrypted communication

All stored and transmitted data is protected by block encryption featuring a dynamic key.

Frequency hopping

To prevent radio interference and jamming.

Learn more >

Dangerous temperature detection

Sensitive element

2 × thermistor

According to the EN 54-5 requirements for heat detectors of Class A1, B, and C with rate-of-rise (R) and static (S) response types.

Heat sensor modes

- **A1, A1R, A1S**
- **B, BR, BS**

For better detection of fire hazards, depending on the installation site of the device. Can be selected in the device settings. Only the following heat sensor modes are compliant with EN 54 requirements: A1R, A1S, BR, and BS.

Smoke detection

Sensitive element

dual-spectrum optical sensor

Detects smoke based on the size of particles in the air.

False alarm protection

The device does not respond to water vapor.

Patented smoke chamber

Protects the smoke sensor from dust, dirt, and insects.

Installation recommendations

The device is designed for indoor use only.

The SmartBracket mounting panel allows the detector to be rotated up to 90° even after installation.

Sabotage protection

Tamper button

Fault notification when an attempt is made to remove the device from the mounting panel.

[Learn more](#) >

Lock for SmartBracket

to secure the device on the SmartBracket mounting panel

When locked, the lock secures the device and prevents it from being removed without a special tool.



Protection against spoofing

device authentication

Connection loss detection

after 36 s

Detection time depends on **Jeweller** settings.

Power supply

Battery

2 × CR123A

Pre-installed.

Tool-free battery replacement

To replace the batteries, open the lids of the battery compartments.



Reverse polarity protection

Prevents device damage if the batteries are put in incorrectly.

Recommended battery type

Huiderrui CR123A; 3 V; 1,600 mAh,
LiMnO₂

Calculated battery life

up to 6 years

Enclosure

Dimensions

124 × 124 × 48 mm

Weight

278 g



Operating temperature range

from 0 °C to +50 °C

Operating humidity

up to 80%

Protection class

IP20

Flammability rating

UL 94 V-0

Color

Black

White



Complete set

EN54 FireProtect (Heat/Smoke) Jeweller

SmartBracket mounting panel

2 × CR123A battery (pre-installed)

Installation kit

Quick start guide

Revision

1

Certification and compliance with standards



EN54 FireProtect (Heat/Smoke) Jeweller



Additional information

Compliance with standards

[Learn more >](#)

User manual

[Learn more >](#)

Warranty

24 months


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Rating 4.8

4,500,000

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 Suggest a feature

Products

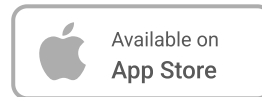
- Intrusion protection
- Video surveillance
- Fire and life safety
- Comfort and automation
- All products
- Services
- System integrations
- Ajax Ready products
- Fibra wired protocol
- Ajax radio protocols

Solutions

- Customer stories
- Solutions by facility type
- Commercial fire detection and alarm system
- Wireless Grade 3 solution
- Video surveillance solution
- Integration with Yale smart locks
- Upgrades and retrofits
- Why Ajax
- How it works

Software

- Ajax Security System
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax TV
- Ajax Translator PRO
- Ajax Cloud Signaling
- Ajax Media Player
- Scenarios



Support

- Manuals and articles
- Compliance with standards

Tools

- Ajax kit configurator
- Ajax device compatibility
- CMS software compatibility
- Ajax Services availability
- Video storage calculator
- Video device calculator
- Battery life calculator
- Radio communication range calculator
- Switches and outlets configurator
- Fibra power supply calculator
- All web tools

Monitoring solutions and integrations

- Intrusion alarm monitoring
- Video monitoring and visual alarm verification

[Audio alarm verification](#)

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