

### Tech specs

EN54 LINE

# EN54 FireProtect (Heat/Sounder) Jeweller

Wireless addressable point heat detector combined with a fire alarm sounder



Device compatibility

Check

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## 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**

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## 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
- C, CR, CS
- Fixed temperature

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, BS, CR, and CS.

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## Alarm annunciation

### Alarm type

acoustic

### Sound volume

At a distance of 1 m

Tone 1: 970 Hz – min 66, max 82 dB

Tone 2: 800 Hz / 970 Hz @ 2 Hz – min 66, max 86 dB

Tone 3: 800–970 Hz @ 1 Hz – min 73, max 89 dB

Tone 6: 554 Hz, 0.1 s / 440 Hz, 0.4 s – min 69, max 87 dB

Tone 7: 500–1200 Hz, 3.5 s / 0.5 s OFF – min 80, max 87 dB

Tone 13: 1200–500 Hz @ 1 Hz – min 75, max 86 dB

Adjusted by a PRO or user with admin rights in an Ajax app.

### Current consumption in alarm mode

250 mA

### Sound pattern

32 tones

### Sound synchronization

An audible alarm is automatically synchronized on all devices with a sounder connected to the same CIE.

## Alarm annunciation test

An audible alarm check to ensure the fire alarm is clearly audible on the premises.

## 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.

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## 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.

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## 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,  
LiMnO<sub>2</sub>

## Calculated battery life

up to 5 years

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## 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

IP21C

## Flammability rating

UL 94 V-0



48 mm

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## Color

Black



White



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## Complete set

## EN54 FireProtect (Heat/Sounder) Jeweller

SmartBracket mounting panel

2 × CR123A battery (pre-installed)

Installation kit

Quick start guide

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### Revision

3

### Certification and compliance with standards



EN54 FireProtect (Heat/Sounder) Jeweller



### Additional information

**Compliance with standards**

[Learn more >](#)

**User manual**

[Learn more >](#)

**Warranty**

24 months

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### Products

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

### Software

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

Ajax radio protocols



Available on  
App Store



Available on  
Google Play

## 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

## Support

Manuals and articles

Compliance with standards

## Tools

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

## Company

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## For partners

For partners

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Partner Portal

