

**EN54** EN54 FireProtect Jeweller detectors

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# EN54 FireProtect (Heat/Sounder) Jeweller

Wireless addressable point heat detector combined with a fire alarm sounder



## 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.

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## 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.

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## Alarm annunciation

### Alarm type

acoustic

### Sound volume

up to 95 dB at a distance of 1 m

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

### 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.

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### 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

Huiderui CR123A; 3 V; 1,600 mAh,  
 $\text{LiMnO}_2$

### 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

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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

1

## Certification and compliance with standards



## Additional information

### Compliance with standards

[Learn more](#) >

### User manual

[Learn more](#) >

### Warranty

24 months

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@AjaxSystemsSupport\_Bot

Send a request



4,000,000

people worldwide under Ajax protection

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[Intrusion alarm monitoring](#)  
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