Tech specs

EN54 LINE

EN54 FireProtect (Sounder/VAD) Jeweller

Wireless addressable fire alarm sounder combined with a visual alarm device (VAD)



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

Alarm annunciation

Alarm type

acoustic and light

A sounder and LED frame.

Sound volume

up to 100 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.

Flash frequency

90 ms ON / 1,910 ms OFF (cycle duration: 2,000 ms; frequency: 0.5 Hz)

Alarm annunciation test

To check the sound and visual alarm signals to ensure fire alarm signals are clearly audible and visible in the premises.

Installation recommendations

The device's recommended installation height is up to 3 m on the ceiling and up to 2.4 m on the wall.

The device is designed for outdoor and indoor use.

Sabotage protection

Tamper button

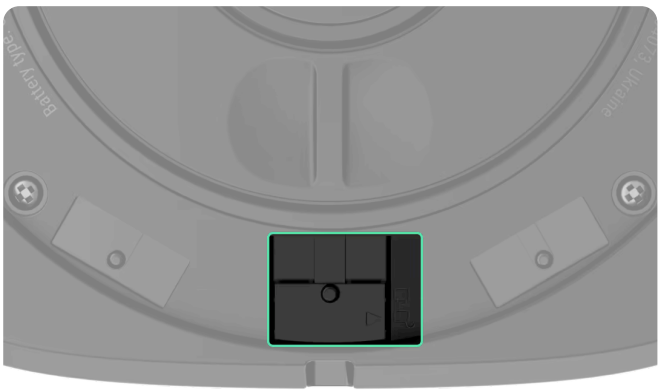
Fault notification when an attempt is made to remove the device from the mounting panel.

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

4 × CR123A

Pre-installed.

Tool-free battery replacement

To replace the batteries, turn the battery compartment cover counterclockwise.



Reverse polarity protection

Prevents device damage if the batteries are put in incorrectly.

Recommended battery type

Huiderui CR123A; 3 V; 1,600 mAh, $LiMnO_2$

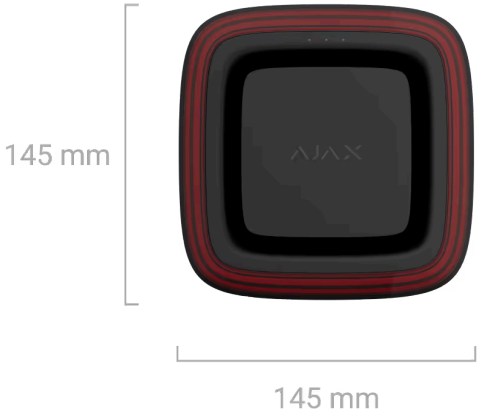
Calculated battery life

up to 5 years

Enclosure

Dimensions

145 × 145 × 51 mm



Weight

561 g

Operating temperature range

from −10 °C to +50 °C

Operating humidity

up to 80%



Protection class

IP54

Flammability rating

UL 94 V-0

Color

Black

White





Red



Complete set

EN54 FireProtect (Sounder/VAD) Jeweller

4 × CR123A battery (pre-installed)

SmartBracket mounting panel

Installation kit

Quick start guide

Revision

1

Certification and compliance with standards



EN54 FireProtect (Sounder/VAD) Jeweller

Additional information

Compliance with standards

Learn more

User manual

Learn more

Warranty

24 months

Learn more

Subscribe

Subscribe to our emails about secure life. No spam.

Subscribe

Request extra help

support@ajax.systems
@AjaxSystemsSupport_Bot
Send a request

Trustpilot
Rating 4.7

4,000,000
people worldwide under Ajax protection

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

Software

- For users
- Ajax PRO: Tool for Engineers
- Ajax Desktop
- Ajax PRO Desktop
- Ajax Translator PRO
- Ajax Cloud Signaling
- Scenarios

Available on App Store

Available on Google Play

Solutions

- Customer stories
- Solutions by facility type
- Commercial fire detection and alarm system
- Upgrades and retrofits
- Why Ajax
- How it works

Support

- Manuals and articles
- Compliance with standards

Tools

- Ajax device compatibility
- Video storage calculator
- Video device calculator
- Battery life calculator
- Radio communication range calculator
- Switches and outlets configurator

Fibra power supply calculator

All web tools

Connecting to CMS

Intrusion alarm monitoring

Video monitoring and visual alarm verification

Audio alarm verification

Company

Blog

About us

Press page

Events

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Ajax Next

Students at CES 2026

Reviews and feedback

For partners

For partners

Ajax Academy

Partner Portal

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