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.
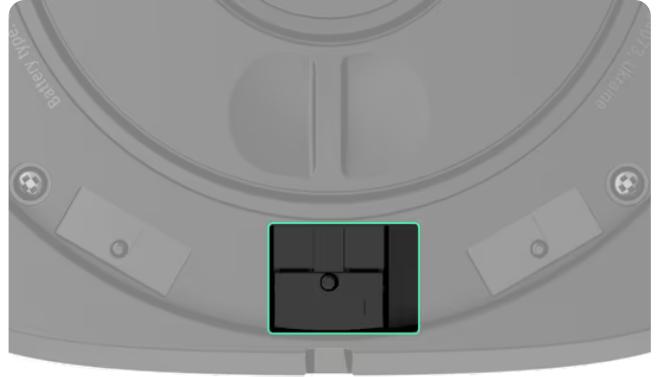
Protection against spoofing

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
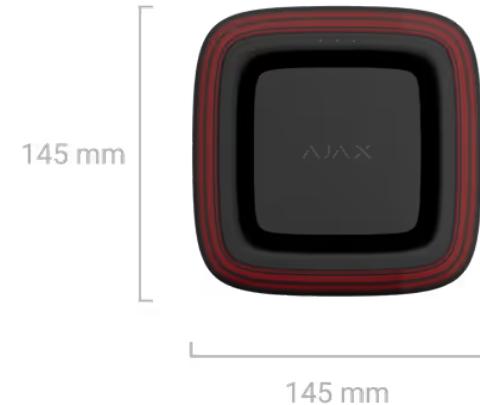
Weight

561 g

Operating temperature range

from −10 °C to +60 °C

Operating humidity

up to 80%

Protection class

IP54

Flammability rating

UL 94 V-0

145 mm

145 mm

51 mm

Color

Black

White

Red

Complete set

EN54 FireProtect (Sounder/VAD) Jeweller

4 × CR123A battery (pre-installed)

SmartBracket mounting panel

Installation kit

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 ›

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

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Video device calculator

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Radio communication range calculator

Switches and outlets configurator

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Blog

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Events

Career

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Students at CES 2026

Reviews and feedback

For partners

For partners

Ajax Academy

Partner Portal

Subscribe

Subscribe to our emails about secure life. No spam.

Subscribe

Request extra help

✉ support@ajax.systems

@ @AjaxSystemsSupport_Bot

💬 Send a request

★ Trustpilot

4,000,000

people worldwide under Ajax protection

Rating 4.7

ⓘ Report mistake
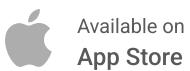
? Suggest a feature

Fibra power supply calculator

All web tools

Connecting to CMS

Intrusion alarm monitoring

Video monitoring and visual alarm verification

Audio alarm verification