

EN54

EN54 FireProtect Jeweller detectors

Tech specs 

Where to buy

Tech specs

EN54 LINE

EN54 FireProtect (Smoke/Sounder) Jeweller

Wireless addressable point smoke detector combined with a fire alarm sounder



- Device compatibility

Check

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 >

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.

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.

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

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

Calculated battery life

up to 5 years

Enclosure

Dimensions

124 × 124 × 48 mm

Weight

295 g

Operating temperature range

from 0 °C to +50 °C

Operating humidity

up to 80%

Protection class

IP21C



Flammability rating

UL 94 V-0

Color

Black



White



Complete set

- EN54 FireProtect (Smoke/Sounder) Jeweller
- SmartBracket mounting panel
- 2 × CR123A battery (pre-installed)
- Installation kit
- Quick start guide

Revision

1

Certification and compliance with standards



EN54 FireProtect (Smoke/Sounder) Jeweller



[Learn more >](#)

[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

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

Company

Blog

About us

Press page

Events

Career

Ajax Next

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



Rating 4.7

4,000,000

people worldwide under Ajax protection

[Ajax Desktop](#)

[Ajax PRO Desktop](#)

[Ajax Translator PRO](#)

[Ajax Cloud Signaling](#)

[Scenarios](#)



Available on
App Store



Available on
Google Play

[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](#)

[Report mistake](#)

[Suggest a feature](#)



[Hrvatska](#)

[Privacy policy](#)

[Report a vulnerability](#)

[GDPR White Paper](#)

[NDAA Statement](#)

[Cookie policy](#)

[Anti-Spam Policy](#)

[End user agreement](#)

[Warranty](#)

© 2025 AJAX SYSTEMS CH. All rights reserved