

EN54 FireProtect Jeweller detectors

Wireless addressable point detectors



Product versions

EN54 FireProtect (Smoke) Jeweller

Wireless addressable point smoke detector



EN54 FireProtect (Heat) Jeweller

Wireless addressable point heat detector



EN54 FireProtect (Smoke/Sounder) Jeweller

Wireless addressable point smoke detector combined with a fire alarm sounder



EN54 FireProtect (Heat/Sounder) Jeweller

Wireless addressable point heat detector combined with a fire alarm sounder



EN54 FireProtect (Heat/Smoke) Jeweller

Wireless addressable point heat and smoke detector



Rules met. Conventions shattered.

EN54 FireProtect Jeweller detectors combine certified reliability with effortless installation. This wireless series includes addressable point smoke and heat detectors, some of them combined with built-in fire alarm sounders. Each detector provides best-in-class detection accuracy thanks to Ajax's patented smoke chamber with a dual-spectrum optical sensor and two accurate thermistors. With built-in communicators, long battery life, and stable long-range radio communication, the devices are ready for different-scale projects. No need to open the enclosure or run cables – installation and configuration take just minutes via Ajax apps. Early service notifications and automated maintenance reports via Ajax PRO Desktop ensure the system stays easy to support for years.



Smoke detection

- The patented smoke chamber is dustproof, insect-resistant, and requires no regular cleaning.
- The dual-spectrum optical sensor has blue and infrared LEDs that emit light with different wavelengths.
- The HazeFlow 2 algorithm analyzes data from the dual-spectrum optical sensor and compares it to a specified pattern to distinguish smoke from vapor or steam.



Heat detection

- Two thermistors are used for accurate detection of flaming fires and rapid temperature rise.
- A1, A1R, A1S, B, BR, BS, C, CR, CS, and fixed temperature¹ modes are supported.
- Detection modes are selected in the app.



Hassle-free installation and maintenance

- Adding to the CIE by scanning the QR code – no tools or programming required
- Configuration and testing in Ajax apps
- Dedicated field for specifying the exact device location
- SmartBracket mounting panel for easy installation without enclosure disassembly
- Up to 90° device rotation on the SmartBracket mounting panel for optimal placement
- Optional device locking on SmartBracket to limit attempts to remove it
- Tool-free battery replacement
- One-person walk testing
- Compatibility with Solo 332 and other popular smoke dispenser aerosols



Built-in radio communication

- Up to 1,700 m of communication range with the CIE in open space
- Option to connect the devices to the range extender (sold separately)
- Alarm transmission to the CIE within 3 seconds
- Smart radio technology: automatic power adjustment, frequency hopping, and connection loss detection



Efficient autonomy for years to come

- Up to 5 years of operation on pre-installed batteries
- Low battery notifications in Ajax apps
- Quick battery replacement without enclosure disassembly

Compatibility with the CIE and range extenders

For detailed information, scan the QR code or follow the link: ajax.systems/tools/devices-compatibility/?models=FP.54A.J,FP.54AV.J,FP.54V.J



Dangerous temperature detection

Sensitive element

2 × thermistor

Heat sensor modes¹

- A1, A1R, A1S
- B, BR, BS
- C, CR, CS
- Fixed temperature

Can be selected in the device settings.

Alarm annunciation

Alarm type

acoustic

Audible indication

Sound volume: up to 85 dB at a distance of 1 m

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

Sound pattern: 32 tones

Alarm synchronization

across all devices with a sounder connected to the same CIE

Communication with the CIE or range extender

Jeweller communication technology

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

Communication range

up to 1,700 m

In open space

Compliance with standards

EN54 FireProtect (Smoke) Jeweller

EU CPR: EN 54-7, EN 54-25
Directive 2014/53/EU (RED)
BOSEC

EN54 FireProtect (Smoke/Sounder) Jeweller

EU CPR: EN 54-3, EN 54-7, EN 54-25
Directive 2014/53/EU (RED)
BOSEC

EN54 FireProtect (Heat) Jeweller

EU CPR: EN 54-5, EN 54-25
Directive 2014/53/EU (RED)
BOSEC

EN54 FireProtect (Heat/Sounder) Jeweller

EU CPR: EN 54-5, EN 54-25
Directive 2014/53/EU (RED)
BOSEC

EN54 FireProtect (Heat/Smoke) Jeweller

EU CPR: EN 54-5, EN 54-7, EN 54-25
Directive 2014/53/EU (RED)
BOSEC

<p>Smoke detection</p> <p>Sensitive element dual-spectrum optical sensor Detects smoke based on the size of particles in the air.</p> <p>False alarm protection The device does not respond to water vapor.</p> <p>Patented smoke chamber Protects the smoke sensor from dust, dirt, and insects.</p>	<p>Enclosure</p> <p>Color black, white</p> <p>Dimensions 124 × 124 × 54.2 mm</p> <p>Weight 281 g for EN54 FireProtect (Smoke) Jeweller 294,5 g for EN54 FireProtect (Smoke/Sounder) Jeweller 278 g for EN54 FireProtect (Heat/Smoke) Jeweller</p> <p>Operating temperature -10 °C to +50 °C</p> <p>Operating humidity up to 80%</p> <p>Protection class IP21C</p> <p>Flammability rating UL 94 V-0</p>	<p>Power supply</p> <p>Battery 2 × CR123A Pre-installed</p> <p>Tool-free battery replacement</p> <p>Battery life up to 5 years</p> <hr/> <p>Complete set</p> <p>EN54 FireProtect Jeweller detector 2 × CR123A battery (pre-installed) SmartBracket mounting panel Installation kit Quick start guide</p>
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¹ Only the following heat sensor modes are compliant with EN 54 requirements: A1R, A1S, BR, BS, CR, and CS.



For detailed information, scan the QR code or follow the link:
ajax.systems/products/en54-fireprotect-jeweller-detectors/manuals/

-  support@ajax.systems
-  @AjaxSystemsSupport_Bot
-  ajax.systems