EN54 FireProtect
Jeweller detectors

Wireless addressable point detectors



Product versions

EN54 FireProtect (Smoke) Jeweller

Wireless addressable point smoke detector

EN 54-7 · EN 54-25

EN54 FireProtect (Heat) Jeweller

Wireless addressable point heat detector

EN 54-5 · EN 54-25

EN54 FireProtect (Smoke/Sounder) Jeweller

Wireless addressable point smoke detector combined with a fire alarm sounder

EN 54-7 · EN 54-3 · EN 54-25

EN54 FireProtect (Heat/Sounder) Jeweller

Wireless addressable point heat detector combined with a fire alarm sounder

EN 54-5 · EN 54-3 · EN 54-25

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 (EN 54-7)

- 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 (EN 54-5)

- 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 temperature 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
- 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.54H.J,FP.54HA.J,FP.54S.J,FP.54SA.J

Dangerous temperature detection

Sensitive element
2 × thermistor

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

Can be selected in the device settings.

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

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

Power supply

Battery
2 × CR123A
Pre-installed

Tool-free battery replacement

Battery life
up to 5 years

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

Enclosure

Color
black, white

Dimensions
124 × 124 × 54.2 mm

Weight
281 g
for EN54 FireProtect (Smoke) Jeweller
265 g
for EN54 FireProtect (Heat) Jeweller
294,5 g
for EN54 FireProtect (Smoke/Sounder) Jeweller
278 g
for EN54 FireProtect (Heat/Sounder) Jeweller

Operating temperature range
from –10 °C to +50 °C

Operating humidity
up to 80%

Protection class
IP21C

Flammability rating
UL 94 V-0

Compliance with standards

EN54 FireProtect (Smoke) Jeweller
EU CPR: EN 54-7, EN 54-25
Directive 2014/53/EU (RED)

EN54 FireProtect (Smoke/Sounder) Jeweller
EU CPR: EN 54-3, EN 54-7, EN 54-25
Directive 2014/53/EU (RED)

EN54 FireProtect (Heat) Jeweller
EU CPR: EN 54-5, EN 54-25
Directive 2014/53/EU (RED)

EN54 FireProtect (Heat/Sounder) Jeweller
EU CPR: EN 54-5, EN 54-25
Directive 2014/53/EU (RED)

Complete set

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

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

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