

# EN54 FireProtect Jeweller detectors

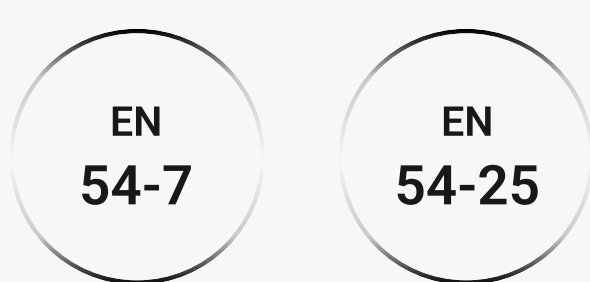
Wireless addressable point detectors



## 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



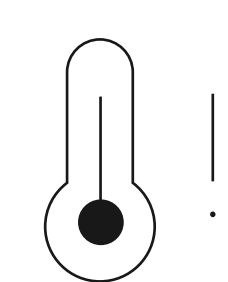
## Rules met. Conventions shattered.

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.



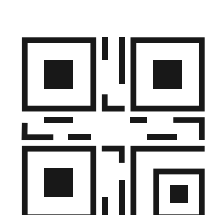
### Smoke detection

- 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

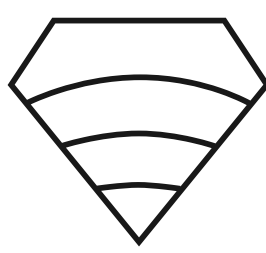
- Two thermistors are used for accurate detection of flaming fires and rapid temperature rise.
- A1, A1R, A1S, B, BR, BS, C, CR, CS, and fixed temperature modes are supported.
- Detection modes are selected in the app.



### Hassle-free installation and maintenance

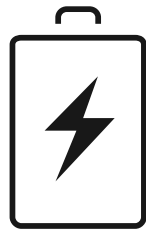
- Adding to the CIE by scanning the QR code — no tools or programming required
- Configuration and testing in Ajax apps
- Dedicated field for specifying the exact device location
- SmartBracket mounting panel for easy installation without enclosure disassembly
- Up to 90° device rotation on the SmartBracket 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](https://ajax.systems/tools/devices-compatibility/?models=FP.54H.J,FP.54HA.J,FP.54S.J,FP.54SA.J)



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Dangerous temperature detection</b></p> <p><b>Sensitive element</b><br/>2 × thermistor</p> <p><b>Heat sensor modes</b></p> <ul style="list-style-type: none"><li>• A1, A1R, A1S</li><li>• B, BR, BS</li><li>• C, CR, CS</li><li>• Fixed temperature</li></ul> <p>Can be selected in the device settings.</p> <p><b>Smoke detection</b></p> <p><b>Sensitive element</b><br/>dual-spectrum optical sensor</p> <p>Detects smoke based on the size of particles in the air.</p> <p><b>False alarm protection</b><br/>The device does not respond to water vapor.</p> <p><b>Patented smoke chamber</b><br/>Protects the smoke sensor from dust, dirt, and insects.</p> | <p><b>Alarm annunciation</b></p> <p><b>Alarm type</b><br/>acoustic</p> <p><b>Audible indication</b></p> <p>Sound volume: up to 85 dB at a distance of 1 m<br/>Adjusted by a PRO or user with admin rights in an Ajax app.</p> <p>Sound pattern: 32 tones</p> <p><b>Alarm synchronization</b><br/>across all devices with a sounder connected to the same CIE</p> <p><b>Power supply</b></p> <p><b>Battery</b><br/>2 × CR123A<br/>Pre-installed</p> <p><b>Tool-free battery replacement</b></p> <p><b>Battery life</b><br/>up to 5 years</p> | <p><b>Communication with the CIE or range extender</b></p> <p><b>Jeweller communication technology</b></p> <p><b>Frequency bands</b><br/>866.0–866.5 MHz<br/>868.0–868.6 MHz<br/>868.7–869.2 MHz<br/>905.0–926.5 MHz<br/>915.85–926.5 MHz<br/>921.0–922.0 MHz<br/>Depends on the sales region</p> <p><b>Maximum effective radiated power (ERP)</b><br/>up to 20 mW</p> <p><b>Communication range</b><br/>up to 1,700 m<br/>In open space</p> | <p><b>Enclosure</b></p> <p><b>Color</b><br/>black, white</p> <p><b>Dimensions</b><br/>124 × 124 × 54.2 mm</p> <p><b>Weight</b><br/>281 g<br/>for EN54 FireProtect (Smoke) Jeweller<br/>265 g<br/>for EN54 FireProtect (Heat) Jeweller<br/>294,5 g<br/>for EN54 FireProtect (Smoke/Sounder) Jeweller<br/>278 g<br/>for EN54 FireProtect (Heat/Sounder) Jeweller</p> <p><b>Operating temperature range</b><br/>from –10 °C to +50 °C</p> <p><b>Operating humidity</b><br/>up to 80%</p> <p><b>Protection class</b><br/>IP21C</p> <p><b>Flammability rating</b><br/>UL 94 V-0</p> | <p><b>Compliance with standards</b></p> <p><b>EN54 FireProtect (Smoke) Jeweller</b><br/>EU CPR: EN 54-7, EN 54-25<br/>Directive 2014/53/EU (RED)</p> <p><b>EN54 FireProtect (Smoke/Sounder) Jeweller</b><br/>EU CPR: EN 54-3, EN 54-7, EN 54-25<br/>Directive 2014/53/EU (RED)</p> <p><b>EN54 FireProtect (Heat) Jeweller</b><br/>EU CPR: EN 54-5, EN 54-25<br/>Directive 2014/53/EU (RED)</p> <p><b>EN54 FireProtect (Heat/Sounder) Jeweller</b><br/>EU CPR: EN 54-5, EN 54-25<br/>Directive 2014/53/EU (RED)</p> <p><b>Complete set</b></p> <p>EN54 FireProtect Jeweller detector<br/>2 × CR123A battery (pre-installed)<br/>SmartBracket mounting panel<br/>Installation kit<br/>Quick start guide</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



For detailed information, scan the QR code or follow the link:

[ajax.systems/products/en54-fireprotect-jeweller-detectors/manuals/](https://ajax.systems/products/en54-fireprotect-jeweller-detectors/manuals/)



support@ajax.systems



@AjaxSystemsSupport\_Bot



ajax.systems