DoorProtect S Jeweller

Wireless reed-switch opening detector. Superior edition

Expanded features, reliability, and compliance for PROs

Superior is a project-oriented product line. It includes advanced wireless versions of Jeweller devices. Experience exceptional features, cutting-edge hardware, improved certification compliance, effortless installation, and more.

The Superior difference	
Superior	Baseline
DoorProtect S Jeweller	**DoorProtect Jeweller**
Two reed switches	One reed switch
Compliance with both international and local security standards	Compliance with international security standards
Holding screw for secured installation	No holding screw
Enhanced battery for stable operation at any temperature	Common battery
Matte enclosure	Glossy enclosure
Available only for accredited partners	Available for all PROs

Guardian for doors, windows, and valuables

DoorProtect S Jeweller is designed to detect intrusion and burglary attempts, offering comprehensive coverage for doors, windows, skylights, and vaults. Equipped with two reed switches as opening sensors, the detector features protection against chattering in its operation. Two magnets of different sizes provide more mounting options. All in line with the Ajax user experience, ensuring quick and easy installation of the device.

Key features

2 reed switches the magnet can be placed on the left or right side of the detector	Protection against chattering to prevent false alarms	More installation options with 2 magnets included	Chime[1] feature
Hassle-free installation QR code ↓ SmartBracket ↓	Adjustable tilt angle and alarm delay	Adjustable sensitivity of a shock sensor	Remote control and configuration

App			
Up to 7 years of operation with the pre-installed enhanced battery	Terminals to connect a third-party NC detector	Informative push notifications Critical **Office:** Opening detected, DoorProtect S Jeweller in Hall No. 1 **Manufacturing:** The device is detached from the surface, DoorProtect S Jeweller in Warehouse.	Up to 1,200 m communication range with an Ajax hub or a range extender[2]
Holding screw to secure the detector on a mounting panel	Compliance EN 50131 (Grade 2) PD 6662:2017 INCERT SSF	2 colors of matte enclosure	Jeweller radio communication Power adjustment Frequency hopping Encryption TDMA Two-way communication

Superior, **Fibra**, and **Baseline** product lines are mutually compatible. This opens up numerous possibilities for building systems of any configuration.

Wherever there is a risk of intrusion

Office	School	Store	Warehouse	Medical lab	Home	Barbershop	Museum

Discover future-proof hardware

- Two reed switches
- Two magnets of different sizes
- Enhanced battery
- Tamper against detaching the detector from the surface
- Jeweller antenna
- Terminals to connect a third-party NC detector
- SmartBracket mounting panel
- Holding screw to secure the detector on SmartBracket

Reed switches for reliable opening detection

DoorProtect S Jeweller features two reed switches that guarantee long-term, trouble-free operation. These reed switches allow attaching the magnet to both the left and right sides of the detector. Housed in rigid plastic capsules, they remain intact even in cases of drops or during transportation, ensuring the detector's effective functionality irrespective of magnet placement.

- Effective detection wherever the magnet is placed — left or right

- Plastic capsules for protecting reed switches during transportation

Easy integration with third-party detectors

DoorProtect S Jeweller has terminals for connecting a third-party wired NC detector. This allows the installer to enhance system reliability with any NC detector, whether newly installed or already in place, such as motion, opening, or vibration detectors. For example, DoorProtect S Jeweller enables you to integrate an existing third-party[3] opening detector into the system.

- Opening detector
- Vibration detector
- Motion detector

Use a detector as a doorbell

The Chime feature transforms the combination of an Ajax opening detector and siren into a shopkeeper's bell. When the system is disarmed, the siren notifies about door openings with one of four available short sound signals. PRO users can adjust the volume and assign different signals for separate entrances, making it easy to recognize whether someone entered through the main or a back door.

- Sound signals for door openings
- Signal setup for different security groups
- Customizable signals for separate entrances

The system requires an Ajax siren for the Chime feature to work.

Stable performance in heat and cold

The Superior devices are equipped with high-quality batteries from proven manufacturers only. In addition to real-time testing on the battery production stage, Ajax Systems inspects every unit to ensure the accuracy of the batteries' characteristics. The temperature range does not affect the capacity, as the batteries provide stable performance at temperatures from −10 °C to +40 °C.

- Minimal impact of threshold temperatures on battery life
- High quality proven by regular tests
- Up to 5 years of autonomous operation

Unique wireless technology

An Ajax system uses two-way secure radio communication based on the **Jeweller** proprietary protocol. It provides block encryption and device authentication at each communication session with the hub to prevent sabotage, spoofing, or data theft.

Ajax wireless technology has up to 1,200 m (3,900 ft) of radio communication range in an open space. This distance is on average longer than competing solutions. Automatic power adjustment ensures energy efficiency by avoiding the constant use of maximum power in system devices' radio transmitters. Also, the Jeweller technology is more stable due to using less noisy radio frequencies. Ajax hubs use frequency hopping to protect against radio interference and signal interception. The system automatically changes frequency within a band and notifies the security company and users about the jamming.

Jeweller uses polling to display the real-time device status and transmits alarms, events, and all measured readings into Ajax apps. It features encryption and device authentication to prevent spoofing.

- Up to 1,200 m (3,900 ft) of radio communication with a hub or a range extender[2]
- Encrypted two-way radio communication
- Notifications about jamming and communication loss

Scaled and comprehensive

ReX 2 Jeweller boosts the radio range of all Ajax devices via Jeweller and ensures stable communication even through steel and

concrete via Ethernet using the wire as the additional communication channel. Up to 5 range extenders can operate within one Ajax system to expand the network twice as big, covering underground parking, basement, or metal hangar.

- Up to 5 range extenders within one system
- Ethernet as an alternative communication channel

- Big estate and large facilities
- Business center with underground parking
- Warehouse or industrial complex
- Sectional metal hangar

System supervision

All Ajax devices perform automatic self-diagnosis and report their states to the hub. Essential parameters, such as a tamper state, communication, power supply, and sensor statuses, are continuously monitored. The Ajax Cloud server controls communication between the hub and Ajax apps, ensuring instant notifications for ARCs, security companies, and users. In case of any malfunction or communication failure, an engineer is informed immediately to provide necessary services.

- Automatic device self-diagnosis with status report
- Regular polling to display the current device state in apps
- Instant maintenance notifications

Sabotage resistance

Tamper alarm	Data encryption	Data-rich notifications
The enclosure has a tamper button. It notifies the security company and users once the device is detached from the mounting panel. .	All data the system stores and transmits is protected by block encryption featuring a dynamic key. The encryption makes it extremely difficult to reprogram the device and provides robust protection against data replacement and theft.	The Ajax system instantly delivers informative push notifications about alarms and events. Security companies and users receive precise details about the incident, including the triggered device, along with the time and location.
Device authentication against spoofing **During each communication session, t**he hub authenticates the device by checking its unique parameters. If any parameter fails the check, the hub ignores device commands.	**Regular polling** The device regularly exchanges data with the hub. The system controls each device's state and reports any malfunction or communication loss.	**Communication loss detection** At minimal polling interval settings (3 data packages every 12 seconds), it takes only 36 seconds to detect communication loss and notify the security company and users about the incident.

Effortless installation and setup

DoorProtect S Jeweller is ready to operate straight out of the box. Using the SmartBracket panel, an installer can effortlessly mount the device, eliminating the need to disassemble the enclosure. Ajax apps help quickly make the device a part of the ecosystem: simply pair the device with the hub by scanning the QR code. It can always be reconfigured remotely without the need for on-site visits.

Connection	Installation	Setup	Monitoring
Pairing with the hub by scanning the QR code	The SmartBracket mounting panel: no need to disassemble the enclosure	Configuring and testing in mobile and desktop apps	The **PRO Desktop** app for macOS and Windows

[1] The Chime feature requires **an Ajax siren** to operate. **Learn more about Chime**.

² In an open space.

³ DoorProtect S Jeweller can't power a third-party detector. The power supply for this detector should be connected separately.