

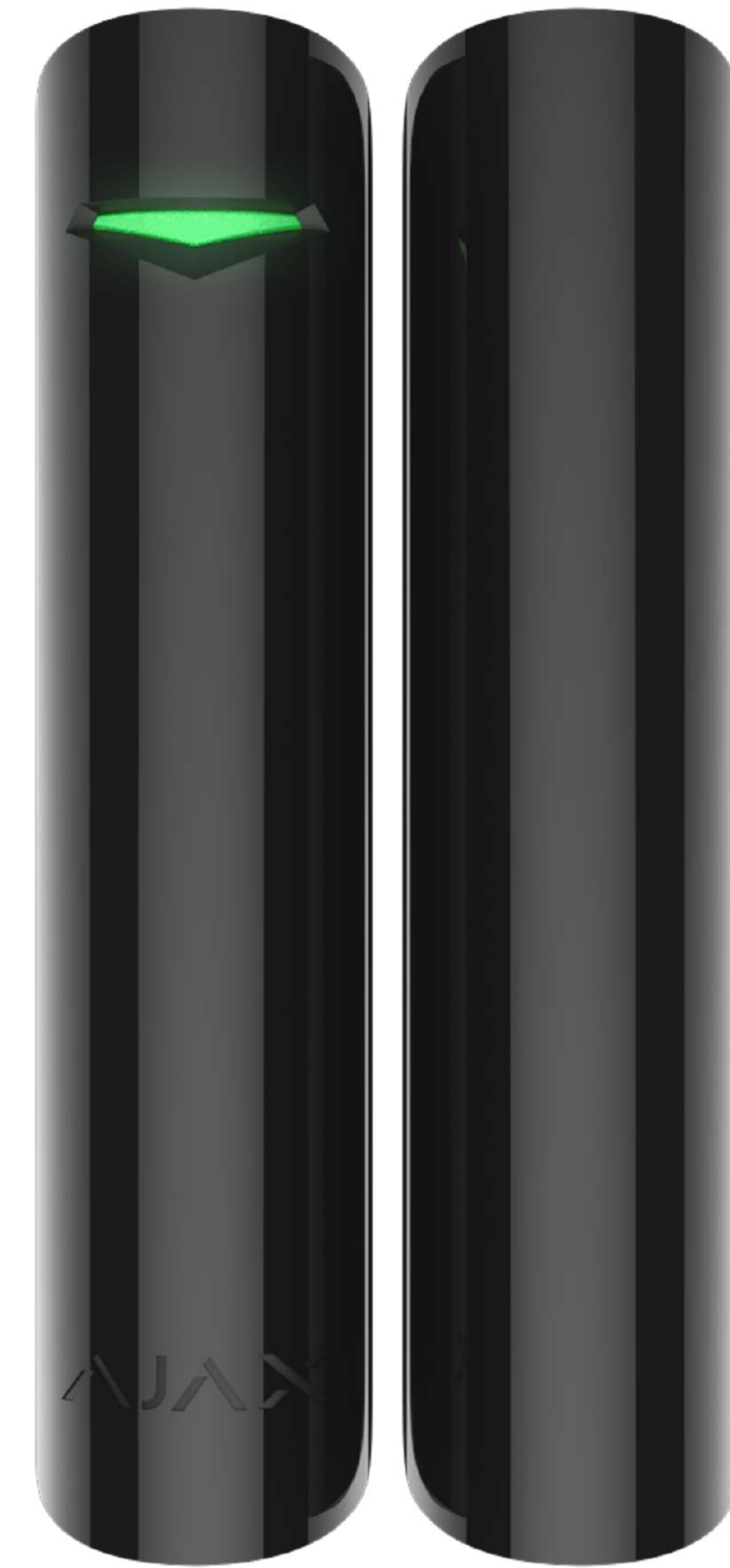
# DoorProtect Plus Jeweller

Wireless indoor opening detector  
with shock and tilt sensors



An Ajax hub is required for operation.  
Find the detailed information on the  
device at the link:

 <https://ajax.systems/support/devices/doorprotect-plus/>



## Key features



Built-in accelerometer for shock and tilt  
detection



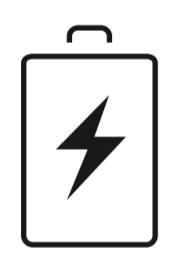
Adjustable tilt angle for alarm triggering



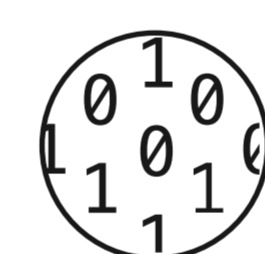
Ignores chattering and single shocks to  
avoid false alarms



Additional NC input for connecting a  
third-party detector



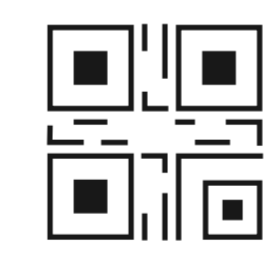
Up to 5 years of operation on pre-  
installed battery



Up to 1,200 m of two-way encrypted  
wireless communication



Remote control and setup via the app




Pairing via QR code

## Jeweller communication technology

**Jeweller** is a **two-way wireless protocol** that provides fast and reliable communication between hubs and devices. The protocol delivers instant data-rich alarms: security companies and users know which device was triggered, when and where it happened.

Jeweller features **encryption** and **authentication** to prevent forgery, and **polling** to display devices' status in real time. Supporting **up to 1,200 m** of wireless connectivity, Jeweller is ready to protect facilities and deliver **the best user experience** for both end users and installers.

# Technical specifications

<p>Compliance with standards</p>	<p>EN 50131 (Grade 2) PD 6662:2017</p>	<p>Communication with control panel and range extenders</p> <p> <b>Jeweller communication technology</b></p> <p><b>Frequency bands</b> 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 region of sales</p> <p><b>Maximum effective radiated power (ERP)</b> ≤ 20 mW</p> <p><b>Communication range</b> up to 1,200 m In an open space</p> <p><b>Polling interval</b> 12–300 sec Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>Protection against forgery</b> Device authentication</p>	<p>Compatibility</p> <p><b>Hubs</b> all Ajax hubs</p> <p><b>Range extenders</b> all Ajax radio signal range extenders</p> <p>Detection</p> <p><b>Sensing element</b> 1 × reed switch 1 × accelerometer</p> <p><b>Opening sensors resource</b> 2,000,000 openings</p> <p><b>Shock sensor sensitivity</b> 3 levels Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>Option to ignore single shocks</b> Enabled by PRO or user with admin rights in the Ajax app</p> <p><b>Tilt sensor activation threshold</b> from 5° to 25° Adjusted by PRO or user with admin rights in the Ajax app</p> <p><b>Third-party detector connection</b> wired detector with the normally closed (NC) contact type</p>
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<p>Power supply</p> <p>1 × CR123A, 3 V Pre-installed</p> <p>up to 5 years of battery life</p>	<p>Installation</p> <p><b>Operating temperature range</b> from -10°C to +40°C</p> <p><b>Operating humidity</b> up to 75%</p> <p><b>Ingress protection</b> IP50</p>
<p>Enclosure</p> <p><b>Colours</b> white, black</p> <p><b>Dimensions</b> Ø 20 × 90 mm</p> <p><b>Weight</b> 29 g</p> <p><b>Tampering alarm</b></p>	<p>Complete set</p> <p>DoorProtect Plus Jeweller 2 magnets (small and large) 1 × CR123A (pre-installed) SmartBracket Installation kit External contact for NC detector Quick Start Guide</p>