


# DoorProtect S Plus Jeweller

Wireless combined opening, shock, and tilt detector with two reed switches and accelerometer. Superior edition

<b>Communication</b>	<p><b>Jeweller communication technology</b> Proprietary wireless communication technology to transmit commands, alarms, and events.</p> <p>Key features:</p> <ul style="list-style-type: none"><li>• Two-way communication.</li><li>• Advanced sabotage protection.</li><li>• Block encryption featuring a dynamic key.</li><li>• Instant notifications.</li><li>• Remote configuration in the Ajax apps.</li></ul> <p><b>Frequency bands</b> 868.0–868.6 MHz</p> <p><b>Maximum effective radiated power (ERP)</b> up to 20 mW Automatic power control to reduce power consumption and noise interference.</p> <p><b>Radio signal modulation</b> GFSK</p> <p><b>Radio signal range</b> up to 1,200 m up to 3,900 ft Between detector and control panel (or range extender) in an open space.</p> <p><b>Encrypted communication</b> All the data stored and transmitted are protected by block encryption with a dynamic key.</p> <p><b>Frequency hopping</b> Radio communication uses frequency hopping to prevent interception and jamming.</p>
<b>Detection</b>	<p><b>Sensitive elements</b> 1 accelerometer 2 reed switches The magnet can be installed to the left or right side of the detector.</p> <p><b>Magnets</b> small and big one come in the set The small magnet operates at a distance of up to 1 cm from the detector, and the big magnet – up to 2 cm.</p> <p>The small magnet operates at a distance of up to 0.4" from the detector, and the big magnet – up to 0.8".</p> <p><b>Protection against reed switch chattering</b> The detector ignores vibrations lasting up to 0.15 s.</p> <p><b>Input to connect an additional detector</b> Wired detector with the normally closed (NC) contact type.</p> <p><b>Shock sensor sensitivity</b> 3 levels For each reed switch. The detection radius depends on the material type:</p> <ul style="list-style-type: none"><li>• <b>Framed glass window</b> – 1.2 m (high sensitivity level), 1 m (low sensitivity level).</li><li>• <b>Wooden plate</b> – 1.2 m (high sensitivity level), 1 m (low sensitivity level).</li></ul>

	<ul style="list-style-type: none"> <li>• <b>Concrete plate</b> – 0.75 m (high sensitivity level), 0.5 m (low sensitivity level).</li> </ul> <p>The smoother and cleaner the detection surface is, the better the detection radius is.</p> <p><b>Option to ignore single shock</b> Adjusted 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>Chime</b> The siren makes a special sound to notify that the opening detectors are triggered when the system is disarmed.</p>
	<p>Do not install the detector using both magnets at the same time. The detector recognizes only one magnet on one side of the detector – left or right.</p> <p>For indoor use only.</p>
<p><b>Sabotage protection</b></p>	<p><b>Tamper alarm</b> Notifications on attempts to detach the detector from the surface or remove it from the mounting panel.</p> <p><b>Holding screw</b> to secure the detector on SmartBracket</p> <p><b>Protection against spoofing</b> device authentication</p> <p><b>Communication loss detection</b> after 36 s Detection time depends on the Jeweller or Jeweller/Fibra settings.</p>
<p><b>Power supply</b></p>	<p><b>Battery</b> 1 × CR123A Pre-installed.</p> <p><b>Type</b> Type C</p> <p><b>Calculated battery life</b> up to 5 years</p> <p><b>Detector's operating voltage range</b> 2. 1–3. 3 V<sub>DC</sub></p> <p><b>Detector's nominal operating voltage</b> 3 V<sub>DC</sub></p> <p><b>Quiescent detector's current consumption at nominal voltage</b> 0.013 mA</p> <p><b>Maximum detector's current consumption at nominal voltage</b> 10.5 mA</p> <p><b>Full capacity</b> 1,600 mAh</p> <p><b>Low battery voltage</b> 2.5 V<sub>DC</sub></p> <p><b>Low battery recovery voltage</b> 2.7 V<sub>DC</sub></p>

	<p><b>End-of-life battery voltage</b> 2.1 V= Device is switched off.</p> <p><b>End-of-life battery capacity</b> 300 mAh</p> <p><b>Manufacturer</b> Panasonic</p>
<b>Enclosure</b>	<p><b>Detector dimensions</b> 103 × 22 × 21 mm</p> <p><b>Detector dimensions</b> 4.05" × 0.87" × 0.83"</p> <p><b>Dimensions of the big magnet</b> 103 × 22 × 21 mm</p> <p><b>Dimensions of the big magnet</b> 4.05" × 0.87" × 0.83"</p> <p><b>Dimensions of the small magnet</b> 55 × 11 × 6 mm</p> <p><b>Dimensions of the small magnet</b> 2.15" × 0.43" × 0.24"</p> <p><b>Weight of the white device</b> 37 g 1.30 oz</p> <p><b>Weight of the black device</b> 34 g 1.20 oz</p> <p><b>Operating temperature range</b> from -10 °C to +40 °C from 14 °F to 104 °F</p> <p><b>Operating humidity</b> up to 75%</p> <p><b>Protection class</b> IP50, IK04 IP30 tested by CNPP according to NFa2P.</p>
<b>Colours</b>	<p><b>Black</b> <b>White</b></p>
<b>Complete set</b>	<p>DoorProtect S Plus Jeweller SmartBracket mounting panel with holding screw CR123A battery (pre-installed) Big magnet Small magnet Outside-mounted terminal clamp Installation kit Quick start guide</p>
<b>Warranty</b>	24 months