CombiProtect Jeweller

Wireless reed switch-based opening detector. Developed for projects

Communication	Jeweller communication technology
	Proprietary wireless communication technology to transmit commands, alarms, and events.
	Key features:
	● Two-way communication.
	● Advanced sabotage protection.
	● Block encryption featuring a dynamic key.
	● Instant notifications.
	● Remote configuration in the Ajax apps.
	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.
	Certified according to UL/ULC standards.
	Maximum effective radiated power (ERP)
	up to 20 mW
	Automatic power control to reduce power consumption and noise interference.
	Radio signal modulation
	GFSK
	Radio signal range
	up to 1,200 m
	up to 3,900 ft
	Between detector and control panel (or range extender) in an open space.
	Encrypted communication
	All the data stored and transmitted are protected by block encryption with a dynamic key.
	Frequency hopping
	Radio communication uses frequency hopping to prevent interception and jamming.
Detection	**Sensitive elements**
	PIR sensor
	Motion detection distance
	up to 12 m
	up to 39 ft
	When installed at the height of 2.4 m.
	When installed at the height of 7.9 ft.
	Motion detection angles
	horizontal: 88.5°
	Motion detection speed

	from 0.3 to 2 m/s from 1 to 6.6 ft/s The direction of the detector lens should be perpendicular to an alleged intrusion path into the facility. **Sensitivity** 3 levels Adjusted by PRO or user with admin rights in the Ajax app. **Pet immunity** weight: up to 20 kg weight: up to 44 lb height: up to 50 cm height: up to 1.6 ft **False alarm prevention** SmartDetect Software algorithm. **Temperature compensation** Effective motion detection at temperatures from −10°C to +40°C. from 14°F to 104°F.
Recommendations	It is recommended to install the detector at a height of 2.4 m. It is recommended to install the detector at a height of 7.9 ft. The device is designed for indoor use only.
Glass break detection	**Sensitive elements** electret microphone **Glass break detection distance** from 0.3 up to 9 m from 1 up to 30 ft **Glass break detection angles** horizontal: 180° **Sensitivity** 3 levels Adjusted by PRO or user with admin rights in the Ajax app. **False alarm prevention** DualTone Two-factor glass break verification software algorithm: by low and high frequencies.
Glass break characteristics	**Minimum glass size** 279 × 279 mm 11″ × 11″ Detection distance is up to 9 m (30 ft) for all glass types when the **High** sensitivity level is selected. **Glass types and their thickness:** ● standard pane — 3 mm (⅛") and 10 mm (⅜″) ● tempered glass — 3 mm (⅛") and 10 mm (⅜″) ● laminated glass — 3 mm (⅛") and 13 mm (½″) ● wired glass — 6 mm (¼″) ● insulated glass — 3 mm (⅛") and 6 mm (¼″) ● annealed glass — 1.6 mm (1/16″)
Caution	The device will not detect glass breaking if the glass is covered with shockproof, sunscreen, decorative, or any other film.

Sabotage protection	**Tamper alarm** Notifications on attempts to detach the detector from the surface or remove it from the mounting panel. **Holding screw** to secure the detector on SmartBracket **Protection against spoofing** device authentication **Communication loss detection** after 36 s Detection time depends on the Jeweller or Jeweller/Fibra settings.
Power supply	**Battery** 1 × CR123A Pre-installed. **Type** type C **Calculated battery life** up to 5 years **Detector's operating voltage range** 2. 1–3. 3 V⎓ **Detector's nominal operating voltage** 3 V⎓ **Quiescent detector's current consumption at nominal voltage** 38 μA **Maximum detector's current consumption at nominal voltage** 60 mA **Full battery capacity** 1,600 mAh **Low battery voltage** 2.5 V⎓ **Low battery recovery voltage** 2.7 V⎓ **End-of-life battery voltage** 2.1 V⎓ Device is switched off. **End-of-life battery capacity** 300 mAh **Manufacturer** Huiderui or Duracell UL listed.
Enclosure	**Dimensions** 110 × 65 × 50 mm 4.33" × 2.56" × 1.97" **Weight** 92 g 3.25 oz

	Operating temperature range from −10 °C to +40 °C from 14 °F to 104 °F Temperature range from 32 °F (0 °C) to 120 °F (+49 °C) is certified according to UL/ULC standards. **Operating humidity** up to 75% Humidity of up to 93% is certified according to UL/ULC standards. **Protection class** IP50
Colours	**Black** **White**
Complete set	CombiProtect Jeweller SmartBracket mounting panel CR123A battery (pre-installed) Installation kit Quick start guide
Warranty	24 months