

# Superior SeismoProtect G3 Fibra

Wired seismic detector with an additional shock sensor

This is the device of the Superior product line. Only accredited Ajax Systems partners can sell, install, and administer Superior products.



3  
GRADE  
EN 50131

## Built-in sensors for a wide range of threats

### Piezoelectric sensor

Detects vibrations from drilling or cutting, explosions, and physical force such as bending, pressing, or pushing.

### Accelerometer

Detects shocks and tilt angle changes.

### Digital temperature sensor

Detects rapid temperature rises and temperature threshold exceeding.

## Filtering false alarms

When the device detects vibration, the structure-borne sound is instantly processed by hardware and converted into a signal, which is analyzed and correlated by a software algorithm. This procedure helps promptly distinguish real threats from false alarms caused by a swinging door, repair or maintenance work nearby, and passing trains or large vehicles.

## Installation at no extra cost

The detector comes with everything an installer might need to do the job without wasting time or money. Apart from the device itself, the complete set includes:

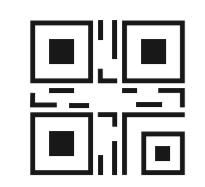
- Mounting plate for installing on curved metal or reinforced concrete.
- Armored cable to safeguard hub-to-detector connection.
- Additional self-test device to check the operational state of the piezoelectric sensor.
- A set of fasteners for different surface types and fixation methods.

## Sabotage protection

- Tamper alarm: 2 tampers
- Protection against short circuits and overvoltage
- Device authentication to prevent spoofing
- Detection of front lid integrity damage caused by drilling or cutting
- Temperature monitoring to detect attempts to cut the device (e.g., with an oxy-fuel welding equipment)
- Connection with armored cable to complicate cutting off the line

## Fibra communication technology

- Wired connection range<sup>1</sup> between the detector and the hub at a distance of up to 2,000 m (6,550 ft)
- Encrypted communication
- Regular polling to display current device statuses
- One Fibra line combines dozens of various Ajax wired devices in any combination
- Connecting with 4-core signal or 8-core U/UTP twisted pair cables
- Support of additional modules that can split, extend, or power the Fibra line



## Quick setup and easy maintenance

- No need to fully disassemble the device for mounting and wiring
- Pairing with the hub via the automatic line scanning or QR code
- On-site or remote configuration and testing via Ajax apps
- Automatic device self-diagnosis with status report
- Instant data-rich maintenance notifications

<p><b>Compliance</b></p> <p>EN 50131-2-8 (Grade 3)</p>	<p><b>Compatibility</b></p> <p><b>Hubs</b> Hub Hybrid (2G) Hub Hybrid (4G)</p>	<p><b>Installation</b></p> <p><b>Operating temperature range</b> from -25 °C to +70 °C from -13 °F to 158 °F</p> <p><b>Operating humidity</b> up to 95%</p>	<p><b>Complete set</b></p> <p>Superior SeismoProtect G3 Fibra Mounting plate Self-test device Armored 4-core signal cable Installation kit Quick start guide</p>
<p><b>Communication with a hub</b></p> <p><b>Fibra communication technology</b></p> <p><b>Wired connection</b> 4×2×0.51 U/UTP cat.5 cable with a copper conductor</p> <p>4×0.22 signal cable with a copper conductor</p> <p><b>Communication range</b> up to 2,000 m up to 6,550 ft With 4×2×0.51 U/UTP cat.5 cable</p> <p><b>Polling interval</b> 12–300 s Adjusted by a PRO or user with admin rights in Ajax apps</p>	<p><b>Detection</b></p> <p><b>Sensitive elements</b> 1 piezoelectric sensor 1 accelerometer 1 digital temperature sensor</p> <p><b>Operating radius</b> 4 m (13.1 ft) concrete 2 m (6.5 ft) steel The operating radius may vary significantly depending on the structure integrity</p> <p><b>Sensitivity</b> 3 levels Adjusted by a PRO or user with admin rights in Ajax apps</p> <p><b>Option to ignore single shock</b> Adjusted by a PRO or user with admin rights in Ajax apps</p> <p><b>Tilt activation threshold</b> from 5° to 25° Adjusted by a PRO or user with admin rights in Ajax apps</p> <p><b>Temperature sensor</b> Alarms when the temperature increases by 5 °C (9 °F) within 5 s or exceeds +70 °C (158 °F)</p>	<p><b>Power supply</b></p> <p><b>Fibra line</b> The hub powers the detector</p> <p><b>Operating voltage range</b> 5–30 V<sup>==</sup></p> <p><b>Nominal operating voltage</b> 24 V<sup>==</sup></p> <p><b>Quiescent current consumption at nominal voltage</b> 0.3 mA</p> <p><b>Maximum current consumption at nominal voltage</b> 2.6 mA</p>	<p><b>Enclosure</b></p> <p><b>Color</b> black, white</p> <p><b>Material</b> aluminum, polycarbonate</p> <p><b>Dimensions</b> 88 × 88 × 20 mm 3.46" × 3.46" × 0.79"</p> <p><b>Detector weight</b> 170 g 6 oz</p> <p><b>Mounting plate weight</b> 224 g 7.9 oz</p> <p><b>Protection class</b> IP43</p> <p><b>Impact protection</b> IK08</p>

<sup>1</sup> When using a 4×2×0.51 U/UTP cat.5 cable.



For detailed information, scan the QR code or follow the link:  
[ajax.systems/support/devices/superior-seismoprotect-g3-fibra](https://ajax.systems/support/devices/superior-seismoprotect-g3-fibra)

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