

GlassProtect Fibra

Wired indoor glass break detector

<ul style="list-style-type: none">• Two-factor glass break verification algorithm• Two colours casing• Energy consumption up to 45 μA• Remote control and setup	<ul style="list-style-type: none">• Terminals to connect a third-party NC detector• 180° glass break detection angle• Fibra line connection up to 2,000 m• Data-rich notifications
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GlassProtect Fibra – is the device of the new Fibra wired product line. Such devices can only be purchased, installed and administered by accredited Ajax partners.

Communication protocol Fibra

The new wired line of Fibra devices has inherited all the advantages of the Jeweller wireless line. Data transmission that is encrypted and protected from sabotage, unprecedented range and energy efficiency, remote control and maintenance, the fastest possible installation.

Fibra technology allows building complex protection regardless of facility size, steel or concrete obstructions. Security is enhanced by informative notifications, photo verification of alarms, real-time system control in the app, and automation scenarios.

Two-factor glass break verification algorithm

GlassProtect Fibra detects glass breaking using a built-in electret microphone. The detector's microphone responds only to acoustic vibrations typical of the glass breaking sound to exclude false alarms.

The detector uses a two-stage algorithm to exclude false alarms. The detector must record a dull (low-frequency) sound of an impact and then a ringing (high-frequency) sound of falling fragments in 1.5 seconds to register the alarm.

Owing to this algorithm, the detector does not respond to the barking of dogs or cars passing by the protected facility.

Terminals to connect a third-party NC detector

A third-party wired NC detector (normally closed detector) can be connected to **GlassProtect Fibra**. It can be any type of detector: motion, opening, or vibration.

Technical specifications

General settings	
Classification	Wired glass break detector
Colour	White, Black
Installation method	Indoors
Limitations	
Compatibility	Hub Hybrid (2G) Hub Hybrid (4G)
Communication	
Fibra protocol	Transmission of events and alarms Alarm delivery time: 0.15 sec
Recommended connection cable	Signal cable (4×0.22, copper) Twisted pair U/UTP cat.5 (4×2×0.51)
Wire type for connection	Up to 2000 m
Polling interval	12 to 300 seconds
Sensor parameters	
Sensing element	Electret microphone
Break detection distance	Up to 9 m
Microphone coverage angle	180°

Tampering alarm	Yes
External detector connection	Yes, normally closed
Power supply	
Detector power supply	24 V _{DC} , up to 45 µA
Enclosure	
Protection class	IP50
Operating temperature range	From -10°C to +40°C
Operating humidity	Up to 75%
Dimensions	90.5 × 21 × 18.5 mm
Weight	54 g
Service life	10 years