wLSN Diversity Hub

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Invented for life

- Multiple internal antennas provide spatial diversity for improved RF signal quality in both transmit and receive modes
- Provides control of the wLSN system through an integrated base station transceiver module
- Provides two-way communication with compatible control panels through a four-wire Option Bus interface
- Manages a non-volatile database of status and configuration information for all sensor nodes in the network
- Supervised for cover and wall tamper conditions

The wLSN Diversity Hub acts as the link between wireless Local Security Network (wLSN) devices and compatible controls panels. The wLSN Diversity Hub is the functional center of the wLSN system and is responsible for coordinating all network activity. The wLSN Diversity Hub communicates with the compatible control panels through a four-wire Option Bus interface, and acts as the network master for the wLSN system. As the network master, the wLSN Diversity Hub provides network timing and synchronization, monitors sensor nodes and network status, and sends configuration data to the sensor nodes as required.

Certifications and approvals

Designed to comply with AFNOR (NF-A2P)

Region	Certification	
Europe	CE	2004/108/EC EMC Directive; 2006/95/EC LVD Directive; 1999/5/EC R&TTE Directive; EN 50130-4 1996, +A1 & A2; EN 55022 2006; EN 60950-1 2006; EN 300 220-1 V2.1.1:2006; EN 301 489-1 V1.8.1:2008
Belgium	INCERT	B-509-0054d

Installation/configuration notes

Compatibility Information
All wireless Local Security Network (wLSN) devices including the wLSN Diversity Hub are compatible with the Easy Series Control Panel.

Mounting Considerations
Mount the Hub on an interior wall or ceiling where it is protected from weather elements such as rain or snow, in a location that appears suitable for RF performance, and where it can be conveniently wired to the control panel.

Notice
Installation on metal surfaces can affect the RF propagation pattern of the radio transceiver.

The RF transceiver has a range of approximately 1000 m (3000 ft) in open air.

Parts included

Quantity	Component
1	wLSN Diversity Hub (ISW-BHB2-WX)
1	Hardware Kit (includes stainless steel screws, wall anchor, and cable tie)
1	Literature Pack • Installation Guide • Reference Guide

Technical specifications

Environmental Considerations

Environment:	Indoor, dry
Relative Humidity:	Up to 95%, non-condensing
Temperature (operating):	-10°C to +55°C (+14°F to +131°F)
EN50130-5:	Environmental Class II

Mechanical Properties

Color:	Off-white
Dimensions (H x W x D):	14.0 cm x 19.0 cm x 3.8 cm (5.5 in. x 7.5 in. X 1.5 in.)

Power Requirements

Voltage (supply):	12 VDC nominal from control panel, 7 VDC to 14 VDC acceptable range
Current Requirement:	60 mA over entire voltage range

Transmission and Reception Characteristics

Frequency:	European Security Band 868 MHz to 869 MHz
Range (open field):	1000 m (3000 ft)

Trademarks

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Ordering information

wLSN Diversity Hub
Coordinates all network activity in a wireless Local Security Network (wLSN) system.
Order number **ISW-BHB2-WX**

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