

Description and functionalities

matrix module is a bidirectional universal radio interface for connecting third-party low power consumption motion detectors to the lares 4.0 platform, at 868 MHz frequency band, and it is compatible with OPTEX sensors series:

- BXS-R/RAM (Radio/Antimasking/PIR and high sensibility to PIR right side and left side);
 - VXS-RAM/RDAM (Radio/Antimasking/PIR and Microwave multidirectional/ coverage 90°);
 - WXI-R/RAM (Radio/Antimasking/PIR and right side and left side/coverage 180°);
 - WXS-RAM/RDAM (Radio/Antimasking/PIR and Microwave right side and left side/ coverage 180°);
 - QXI-R/RDT (Radio/PIR and Microwave multidirectional/coverage 120°);
- allowing their remote management (configuration data and detailed alarm signalling).



KSI5003001.300

Why matrix

- **because** it transforms any type of detector at low current consumption, in a wireless detector;
- **because** it is the perfect complement of OPTEX detectors as it allows remote management (configuration and detailed alarm signalling);
- **because** it can be supplied up to 3 standard CR-123A lithium batteries, able to provide autonomy up to 4500 mAh.



matrix directly feeds the connected motion detector with its own standard CR 123A batteries, from 1 to 3 batteries (second and third are optional) dependently on the consumption of the connected motion detector. Through the supervision function, the control panel verifies the persistence of the radio communication with all the wireless devices.

Two dedicated inputs (alarm and sabotage) detect any disappearance and/or sabotage of the connected detector. **matrix** itself has a tamper protection vibration sensor (accelerometer), which allows, for example if it is mounted on a joint, to detect even a simple rotation or change of position.

To connect **third-party motion detectors** it provides a connection terminal on board (If programmed as UNIVERSAL) and, alternatively, a serial port that is **compatible with OPTEX sensors** (if programmed as OPTEX).

PARTS INCLUDED

- 1 matrix module (PCBA)
- 1 OPTEX motion detectors cable
- 1 Installation Manual IT / EN / FR

HOW TO ORDER

- KSI5003001.300 - matrix module

ACCESSORIES

- KSI7203015.000 – Lithium battery CR123A (200 pcs per pack)

COMPLIANCE

Europe - CE, Rhos



Quantity data

lares 4.0 models	wls 96	16	40	40 wls	140 wls	644 wls
Max number of wireless sensors	32	16	40	40	64	64

Technical data

Operating frequency	868 MHz
Inputs	no. 1 alarm NC - NA type / no. 1 sabotage NC type
Serial interface	compatible with OPTEX sensors
Power supply	CR123-A Lithium batteries (from 1 to 3)
Accelerometer	3-axis mems for sabotage
Range in open air	up to 300m
Operative Temperature Range	-10 / + 55°C
Humidity	95%
Dimensions	100x43x17mm (h x w x d)
Weight	100 gr.