

Universal Transmitter

Description and functionalities



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 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 (PIR or PIR+AM/ curtain coverage right and left sides);
 - VXS (PIR+AM/ PIR+AM+MW/ 90° coverage);
 - WXI (PIR/ PIR+AM/ 180° coverage right and left sides);
 - WXS (PIR+AM/ PIR+AM+MW/ 180° coverage right and left sides);
 - QXI (PIR/ PIR+MW/ 120° coverage right and left sides);
- allowing their remote management (configuration data and detailed alarm signalling).

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. |