



code KSIZ700001.300

### Why energia

**Because** it has the requirements to respond to requests for energy efficiency enhancement;

**because** it can measure and manage the power consumption on each of its two lines, each line can support loads up to 6kW;

**because** it can control the power consumption trend through bar charts, for an immediate analysis;

**because** it can program two thresholds: a notice one and a loads disconnection one (if programmed). Both of them can be used to send notifications to the user;

**because** it can control the status of household appliances in real time (connected/disconnected) from lares 4.0 App and Maps;

**because** it is provided with 4 free configurable outputs relays;

**because** it can be linked to the control panel via the KS-BUS, quickly and easily.

### Description and functionalities

To respond to government regulations that encourage **energy efficiency** in public and private buildings, Ksenia Security has developed the **energia** module that allows you to **monitor** consumption, energy production and to **process** data for offering always an updated power consumption **balance**.

**Power consumption management** is implemented starting from the data collected by **energia** module. Subsequently, an application logic processes the data collected, structures and stores them and finally shows the result of energy consumption trends to the users, in the form of bar charts, in the **lares 4.0 App**. The charts show the historical consumptions, allow the analysis of the power consumption trend, with the aim of identifying potential waste and optimize energy consumption. All this allows to identify the appropriate interventions to avoid inefficiencies and to increase **Energy Efficiency**.



- **energia** BUS peripheral allows to manage the power used in a single-phase electrical system, on each one of its two lines and it will prevent a total disconnection if an overload occurs in the system.
- The overload is controlled by two programmable thresholds (one indicates excessive consumption, the other one the load disconnection risk); when the disconnection threshold is exceeded, the **energia** module disconnects the loads in sequence, according to the configured planning.
- **energia** module provides two distinct power lines on which measuring both voltage and current, each line can support loads up to 6kW.
- **energia** module has 4 outputs relays (220V, 1A) which can be used both to drive external relays for overloaded circuits disconnection and as generic outputs of the control panel.
- **energia** module must be linked to the lares 4.0 control panel via the KS-BUS.



Load Management

### Quantity data

lares 4.0 models	wls 96	16	40	40 wls	140 wls	644 wls
Maximum number of energia modules	1	-	1	3	6	6

### Technical data

Power supply	100-240Vac - Maximum consumption 0.5W
Power supply	12V - Maximum absorption 100mA
Maximum power	2x6kW (if 220Vac) - 2x3kW (if 110Vac)
Number of output relays	4 (250V - 1A)
Interface	KS-BUS
Dimensions	3 DIN modules (90x53x62 mm) / DIN rail mounting

Compliance  
• Europe - CE, RoHS

