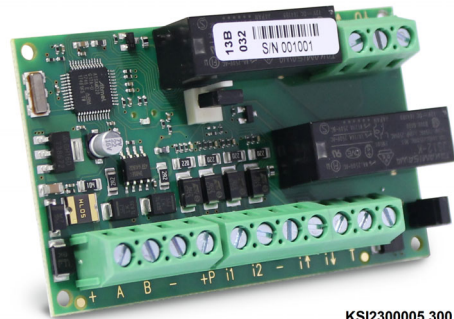# Ksenia®
security innovation

auxi-H

Expansion module input/output and KS-BUS

Installation and programming guide

KSI2300005.300

INTRODUCTION

auxi-H is a module that can be used not only in security but also for home automation. It is compatible with the lares 4.0 series control panels.
Thanks to a dedicated jumper on the board, it is possible to set two operating modes:

- **auxi-HT**: for the complete management of windows equipped with motorized shutters (with two interlocked relay outputs). The roll-up shutters can be opened or closed completely from the scenarios configured on lares 4.0. With the local buttons it is possible to manage the classic movement with man present, but also to manage the complete opening and closing.
- **auxi-HL**: for lighting management (freely configurable outputs).

In both modes, the device also provides two freely configurable alarm inputs and a reserved input for the management of shutter-type detectors.
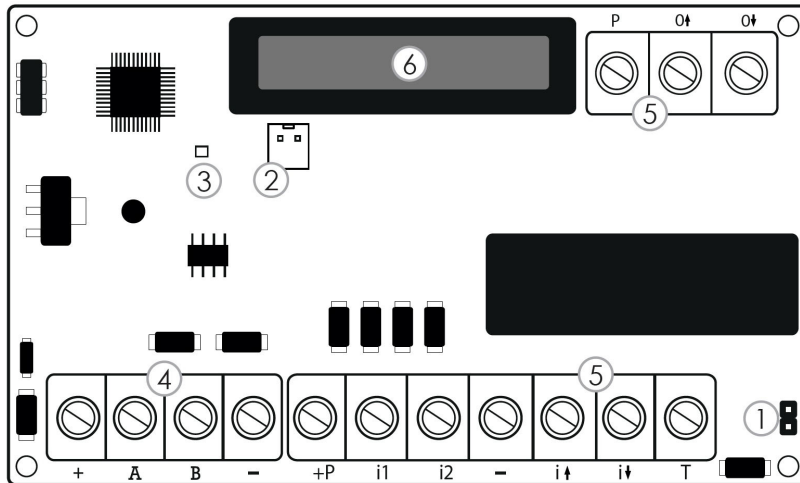
CONFIGURATION

auxi-H connects to lares 4.0 through the KS-BUS 4-wire serial bus and it is uniquely identified with the 6-digit serial number printed on the label on the card.
Programming the terminals (input/output) is possible by using the Installer configuration program of lares 4.0.

TECNICAL DATA

- Power Supply : 13.8Vcc
- Absorption : 70mA (+P terminal excluded)
- 2 configurable alarm inputs (with programmable EOL resistors)
- 1 input reserved for shutter-type detectors
- 2 inputs for connection of local buttons (NO)
- 1 Positive terminal that can deliver up to 0.5A (protected with self-restoring thermal fuse)
- KS-BUS fast addressing system
- 2 relay outputs 250V/8A (10A max)

CONNECTION DIAGRAM

LEGEND

1. Device selection type:
   - Jumper ON: auxi-HT
   - Jumper OFF: auxi-HL
2. Microswitch Tamper Bridge
3. Status LED (future use)
4. Connection BUS to the Panel
5. Connection clamps
6. Serial number

13B 032 S/N 001510 ⑥

An example of device label on dispose which S/N is '001510'

TERMINALS DESCRIPTION	
+ A B -	Connecting terminals to the lares 4.0 devices.
+P	Power supply terminal 0.5A.
-	Ground terminal.
i1	Generic alarm input with customizable processing and EOL resistors. In case auxi-HT is enabled, this input can be used as safety when closing the roller-shutter so if violated, the closing operation will be interrupted and the opening sequence will be activated.
i2	Generic alarm input with customizable processing and EOL resistors.
T	Input with pulse counter, NC balance type, dedicated for connecting a roller-shutter detector type.
i↑ i↓	**auxi-HT**= Inputs for connecting buttons of local activation outputs. Polarity NO, referred to ground terminal (-). **auxi-HL**= inputs for connecting buttons or switches (configurable mode by using the Installer configuration program of lares 4.0, default = "button") of local activation outputs. Polarity NO, referred to ground terminal (-).
P	**auxi-HT** and **auxi-HL**= Output common terminal.
O↑ O↓	**auxi-HT**= Interlocked outputs (up, down) for direct connection of the roller-shutter motor. **auxi-HL**= independent outputs.

OUTPUT SWITCHING (only auxi-HL)

The following table describes the behaviour of the Output O (UP) on the module (if configured as auxi-HL), in the following cases: auxi-HL reset (module FW update), lares 4.0 reset (control panel FW update) and lares 4.0 power off (control panel switch off).

Output O (UP)

Output setting	Output status before reset	auxi-HL reset	lares 4.0 reset	lares 4.0 OFF
NO (Normally open)	Open (IDLE)	Output doesn't move	Output doesn't move	Output keeps on IDLE
	Close (ACTIVE)	Output moves: - to IDLE - back to ACTIVE	Output moves: - to IDLE - back to ACTIVE	Output goes to IDLE

Note: *The only possible programming.

QUANTITY DATA

lares 4.0 models	wls 96	16	40	40 wls	140 wls	644 wls
Maximum number of expansion modules (auxi, auxi relay, auxi 10in, auxi-L, auxi-H, auxi-A)	6*	4**	24	24	64	200

*   Only supports auxi, auxi-A and auxi-H
** Does not support auxi-H

COMPLIANCE

Europe - CE

Technical data, appearance, functionality and other product characteristics may change without notice.