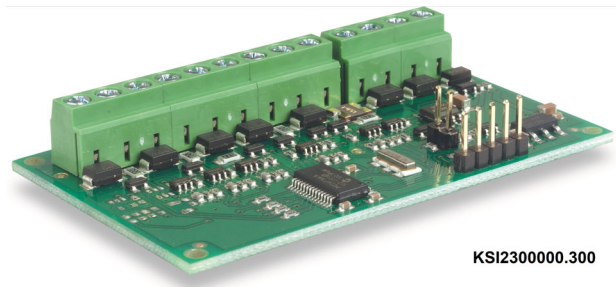


auxi

Expansion module

Installation guide

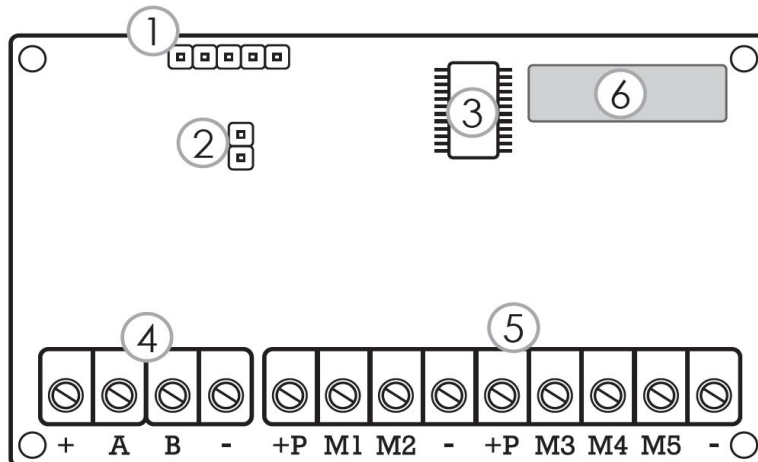


KSI2300000.300

INTRODUCTION

auxi is an expansion module which allows to increase the number of inputs/outputs of lares and lares 4.0 control panel, of 5 units.

CONNECTION DESCRIPTION



LEGEND

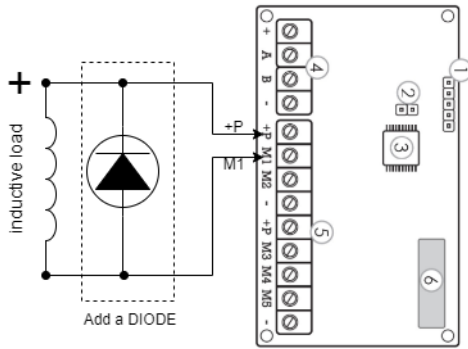
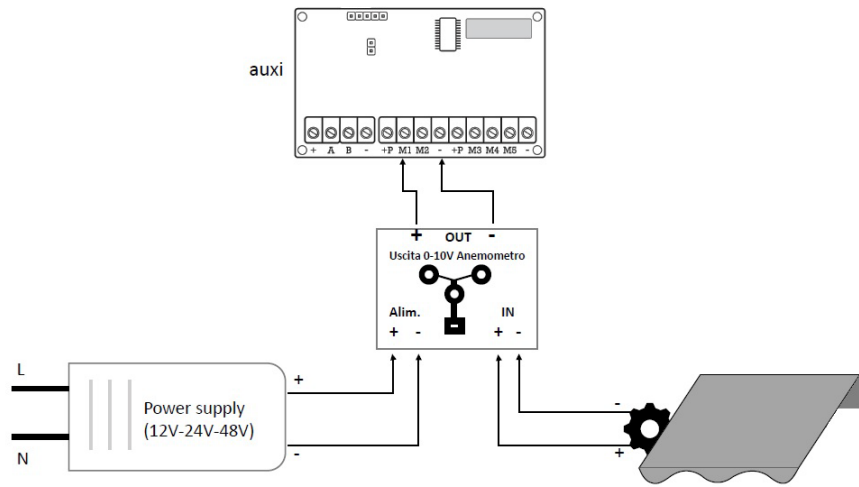
1. Reserved use
2. Microswitch Tamper bridge
3. Microprocessor
4. Connection BUS to the panel
5. Connection clamps
6. Serial Number label

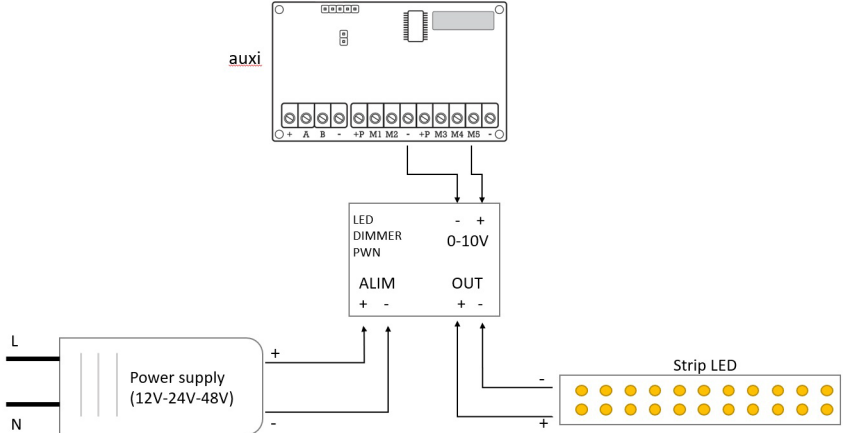


An example of device label with S/N '001510'

TERMINALS DESCRIPTION

+ A B -	Connecting terminal to lares/lares 4.0.
+P	Power supply terminal 0.5A.
-	Ground terminal.

M1, M2, M3, M4, M5	Input (Programmable zones) (connection to the ground terminal) or Output Open Collector at 500mA each (connection to the positive terminal +P) (max voltage 15V).  When a relay or an inductive load is used on an OC output (e.g. electric lock), it is necessary to provide for the connection of a diode with cathode towards the positive, as shown in the figure. 
M1 (note)	This terminal may ALSO be set as analog input 0 - 10V with custom analog intervals (connection is to the ground terminal). The figure below shows an M1 terminal connection set as an analog input. 

M5 (note)	This terminal may ALSO be set as analog output 0 - 10V, 20mA, in this case the connection is to the ground terminal (-). The figure below shows an M5 terminal connection set as an analog output. 
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The extremely compact dimensions of **auxi** module, allows its installation within a standard DIN 503 box for wall mounting or alternatively into the plastic "slim" box (code KSI7302000.010) which can host up to two **auxi** modules.

TERMINALS SWITCHING

The following tables describe the behaviour of the terminals on the module, in the following cases: module FW update, control panel FW update or reset.

Terminal M1

Output setting	Output status before reset	In case of module update, control panel update or reset
NO (Normally open)	Open (IDLE)	1 bounce
	Close (ACTIVE)	1 bounce
NC (Normally closed)	Open (ACTIVE)	1 bounce
	Close (IDLE)	Output doesn't move

Terminal M2 - M3 - M4 - M5

Output setting	Output status before reset	In case of module update, control panel update or reset
NO (Normally open)	Open (IDLE)	Output doesn't move
	Close (ACTIVE)	1 bounce
NC (Normally closed)	Open (ACTIVE)	1 bounce
	Close (IDLE)	Output doesn't move

TECHNICAL DATA

- Power supply: 13.8Vdc
- Consumption: 20mA (excluding terminal P and outputs)
- 5 programmable inputs/5 Outputs O.C at 500mA each
- 1 analog input: 0 - 10V (only M1 terminal)
- 1 analog output: 0 - 10V 20 mA (only M5 terminal)
- 1 power supply terminal 0.5A (protected by a self-restore thermal fuse)
- Dimensions 45x75x16mm

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, auxi-1)	6*	4**	24	24	64	200

* Only supports auxi, auxi-1, auxi-A and auxi-H

** Does not support auxi-H

CONFIGURATION

auxi module can be connected to lares 4.0 through the KS-BUS 4-wire serial bus and has 5 terminals which can be configured as programmable inputs with End-of-Line resistors or OC outputs at 500 mA.

One terminal (M1) can be configured as analog input 0-10V with custom analog intervals and another one (M5) as an analog output 0-10 V. The fast contacts (inertial sensors and roller shutter sensors) are also configurable, among others from "Installer" configuration program, for details please consult the lares 4.0 Programming Manual.

The configuration of **auxi** module is extremely easy, it is automatically acquired by lares 4.0, identified through a 6-digit serial number printed on the label on the card.

CERTIFICATIONS

Europe - CE, RoHS
 EN50131 Grade 3 - Class II
 INCERT: T031:2017 + A1:2018 + A2:2022
 SBSC: SSF 1014 Larmklass 3



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