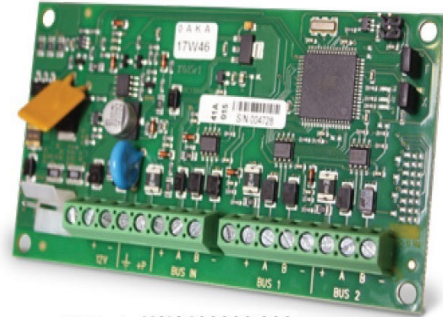


opis

Supervised Power Supply Station

Installation guide



PCBA opis KSI2400000.300

INTRODUCTION

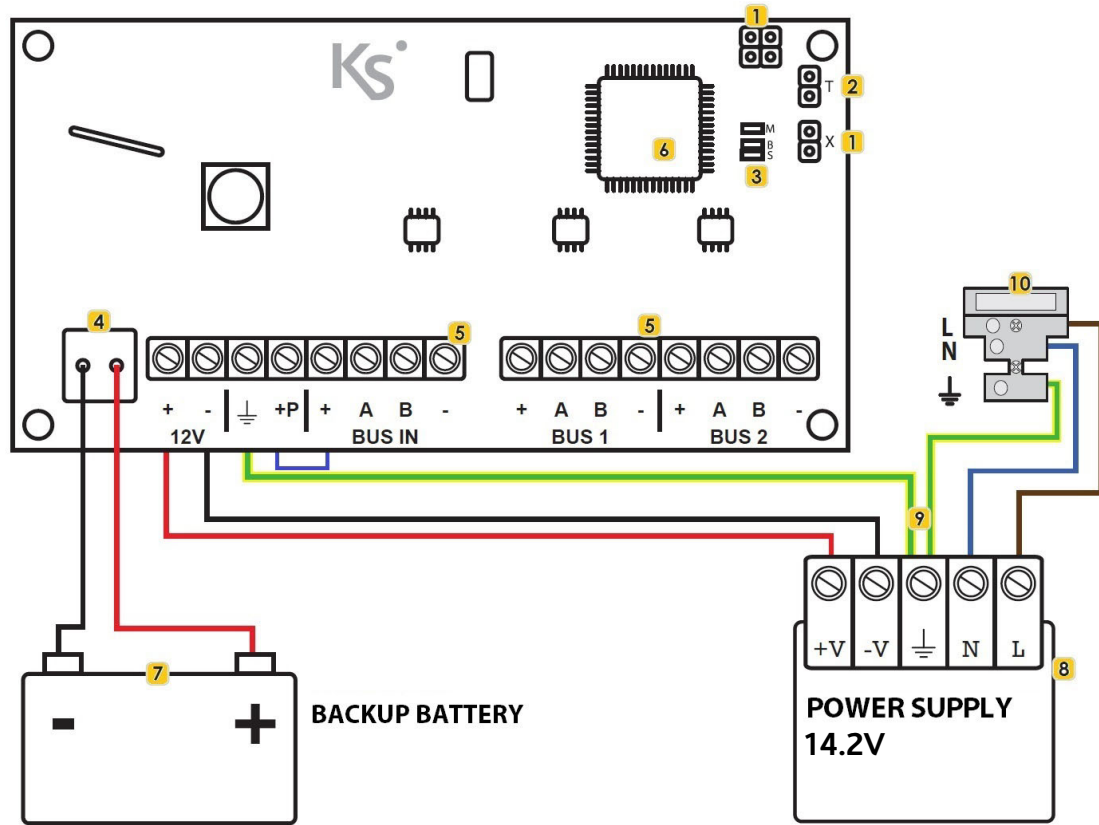
opis is a device that allows to extend the BUS on two additional branches. The power supply to the branches it is provided by the same opis, protected by an 1.5 A auto restoring thermal fuse. The device is fully supervised by the panel, with BUS status, power supply voltage and battery charge information.

The opis power station is supplied already wired in the large metal cabinet (325 x 400 x 90 mm) with key lock, equipped with a 2A / 220V fuse and a 3A switching power supply.

PCBA TECHNICAL DATA

- Battery management: 18 Ah
- Power supply: 14.2 Vdc
- Consumption: 50 mA stand-by; 950 mA max
- Operating temperature range: -10 +40 °C; 95% Humidity
- Dimensions: 115x60x20 mm (PCBA)
- Weight: 50 g
- Maximum current available for external devices: 1450mA grade 2 - 550mA grade 3

DESCRIPTION OF PCBA CONNECTIONS

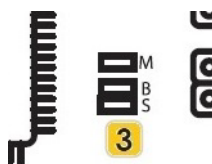


LEGEND

1. Reserved Terminals
2. Microswitch tamper
3. Signalation LEDs (**M-B-S**)
see description in the following table
4. Backup battery connector
5. Connection terminals
6. Micro-controller
7. Backup battery
8. Power supply
9. Protection ground
10. Protection fuse

TERMINALS DESCRIPTION	
12V	+ / - : Power supply input 14.2Vdc  : Protection ground +P : Output 12V power supply (1.5 A max)
BUS IN	A B : Connection terminals of lares 4.0 control panel + : Short circuit [+] terminal of BUS IN with [+P] terminal of opis - : Do not connect terminal [-]
BUS 1	+ A B - : Connection terminals to the output BUS 1
BUS 2	+ A B - : Connection terminals to the output BUS 2

detail of PCBA: LEDs



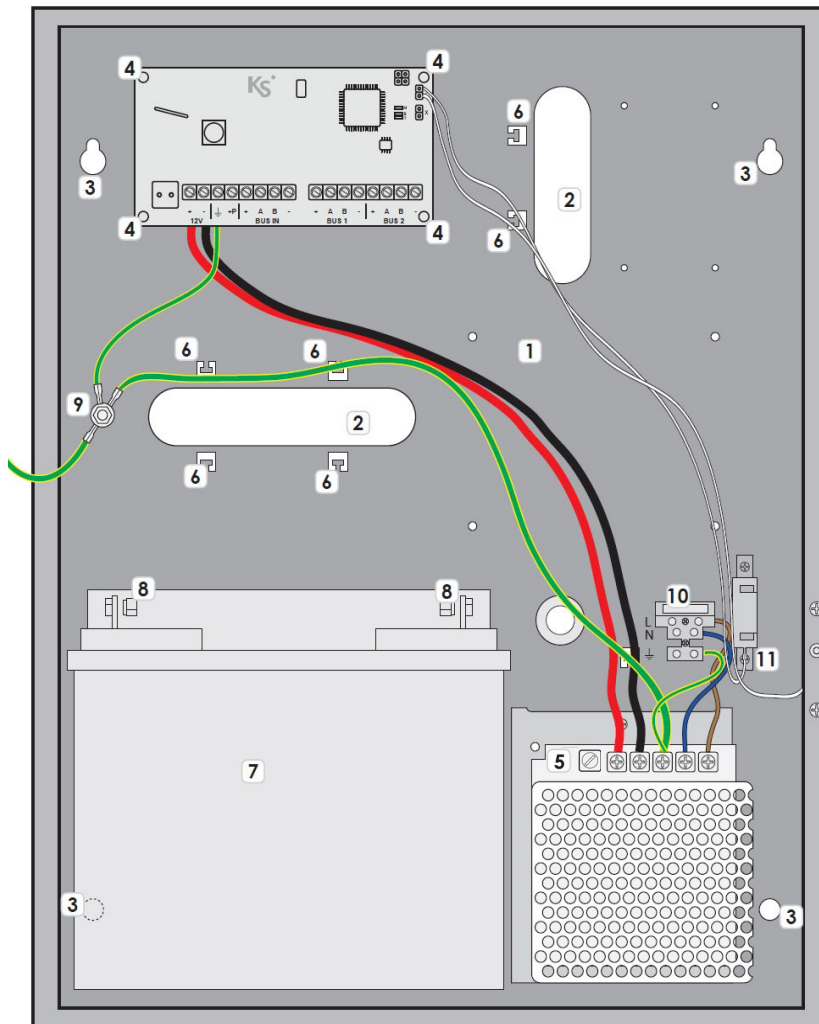
LEDs SIGNALATION (M - B - S)	
M	Power Supply status Steady: Correctly working Off: Power supply fault or missing AC network
B	Battery Voltage status Steady: Correctly working Off: Fault or low battery level
S	System Status Steady: Correctly working Flashing: Tamper and/or BUS IN connection fault

POWER SUPPLY STATION TECHNICAL DATA

- Power supply voltage: 230 V~ -15/+10% 50 Hz 0.8 A
- Power Supply Battery Charger* (Type A norm EN50131-6): 14.2V $\pm$ 1% 50W
- Current consumption (medium): 50mA
- Current consumption (max): 100mA
- Maximum current available for external devices: 1450 mA grade 2 - 550 mA grade 3
- Max. output voltage ripple: 13.8 V- da 10 a 15 V- 120 mV
- Max. current for battery charging: 750 mA
- Maximum battery recharge time to 80%: 12 V – 18 Ah 24 h
- Deep discharge voltage protection: 10 V
- Low battery threshold (restore): 11 V- (12.5 V-)
- Low voltage threshold: 11 V-
- Over voltage protection voltage: 17.5 V
- Backup battery: 18Ah
- Overall dimensions (WxHxD): 325x400x90 mm
- Weight (with battery): 4.2 Kg (10 Kg)
- Temperature operating range: -10 / +40 °C - Humidity (not condensed): 95 %

* Note: The power supply is calibrated at 15V, compatible with control panels of lares 4.0 family. When using with lares control panels or with opis, act on the trimmer of charger to adjust the voltage at 14.2V.

DESCRIPTION OF POWER SUPPLY STATION CONNECTIONS



LEGEND

1. Metal bottom
2. Holes for passing cables
3. Bottom securing holes
4. opis PC board brackets
5. Trimmer to adjust the voltage at 14.2
6. Holes for cables fixing
7. Backup battery (Flammability class UL94-HB)
8. Battery terminals
9. Protection ground
10. Protection fuse 2A
11. Micro-switch cable + Anti-tamper micro-switch

NOTE: insert a ferrite ring on the power cable during cabling.

INSTALLATION

Installing **opis** PCBA inside the metallic box (accessory code KSI7403130.010 or KSI7404130.010) with power station (**adjust it at 14.2V**):

1. Fix the metal cabinet to the wall using Ø 0.32 inch screws (options)
2. Place the **opis** PCBA in the metallic box with power supply charger
3. Perform the necessary links between the **opis** PCBA and the power supply, as described in the paragraph [“DESCRIPTION OF POWER SUPPLY STATION CONNECTIONS” page 4](#)
4. Ensure the cables to the fixing holes
5. Arrange outside the Panel an isolating device (i.e. Circuit Breaker Device 16A Curve C).
6. The power supply has an internal protection fuse (50W - F3.15AL).
7. Wire the earth connection directly on the power supply unit.
8. The power supply conductors must be 0.6 inch.² minimum section.
9. In case of failure or maintenance, the opening of the metallic box must be carried out by authorized personal.

QUANTITY DATA

lares 4.0 models	wls 96	16	40	40 wls	140 wls	644 wls
Maximum number of expansion modules isolator opis	2	4	12	12	20	32

CERTIFICATIONS

Europe - RoHS, CE
 EN 50131
 Grade 2 (1450 mA) - Grade 3 (550 mA) Class II
 T031:T031-2017 + A1:2018 + A2:2022



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