

User's Manual

IP-EXT4+



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INFORMATION AND RECOMMENDATIONS



- JCM Technologies S.A. hereby declares that the product IP-EXT4+ complies with the relevant fundamental requirements of the Directives 2014/30/EU on electromagnetic compatibility whenever its usage is foreseen; and with the 2011/65/EU RoHS Directive.

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See website www.jcm-tech.com/en/declarations

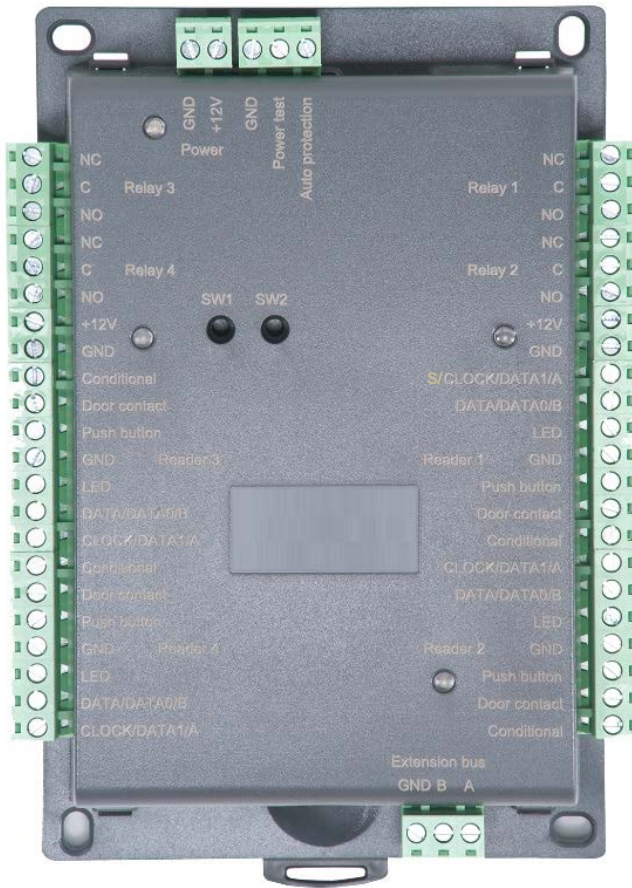
- **Cabling recommendations:** the cables used to connect readers, the network and other peripherals must be installed in accordance with the instructions for Level 2 (protected environment) of standard NF EN 61000-4-4.
- **This product must be installed by an approved company.** Incorrect installation and use may result in electric shock or fire. Before installation, read the technical information and comply with the recommendations for assembling the product.

TECHNICAL CHARACTERISTICS

IP-EXT4+

Maximum power consumption..... 400 mA
Supply voltage 9 – 14VDC
Weight with housing 282 g
Housing dimensions 170 x 119 x 40 mm
Operating temperature 0°C to + 50°C
Control relay 1A / 12V – 1A / 24V

CONNECTING A DEVICE USING S BUS, WIEGAND, CLOCK&DATA OR RS485 PROTOCOLS



- | |
|-----------------|
| +12V/200mA max |
| 0V |
| S/DATA1/CLOCK/A |
| DATA0/DATA/B |
| LED |
- S BUS (+12V,GND,S):
 - o JCM devices
 - WIEGAND (+12V,GND,DATA1, DATA0,LED):
 - o Proximity readers
 - o Key pads
 - o Biometric readers
 - o Radio receivers
 - CLOCK & DATA (+12V,GND,CLOCK, DATA,LED):
 - o Magnetic strip readers
 - o Barcode readers
 - o Proximity readers
 - o Radio receivers
 - RS485 (+12V,GND,A, B,GND):
 - o DIGIBIO MINI

Information:

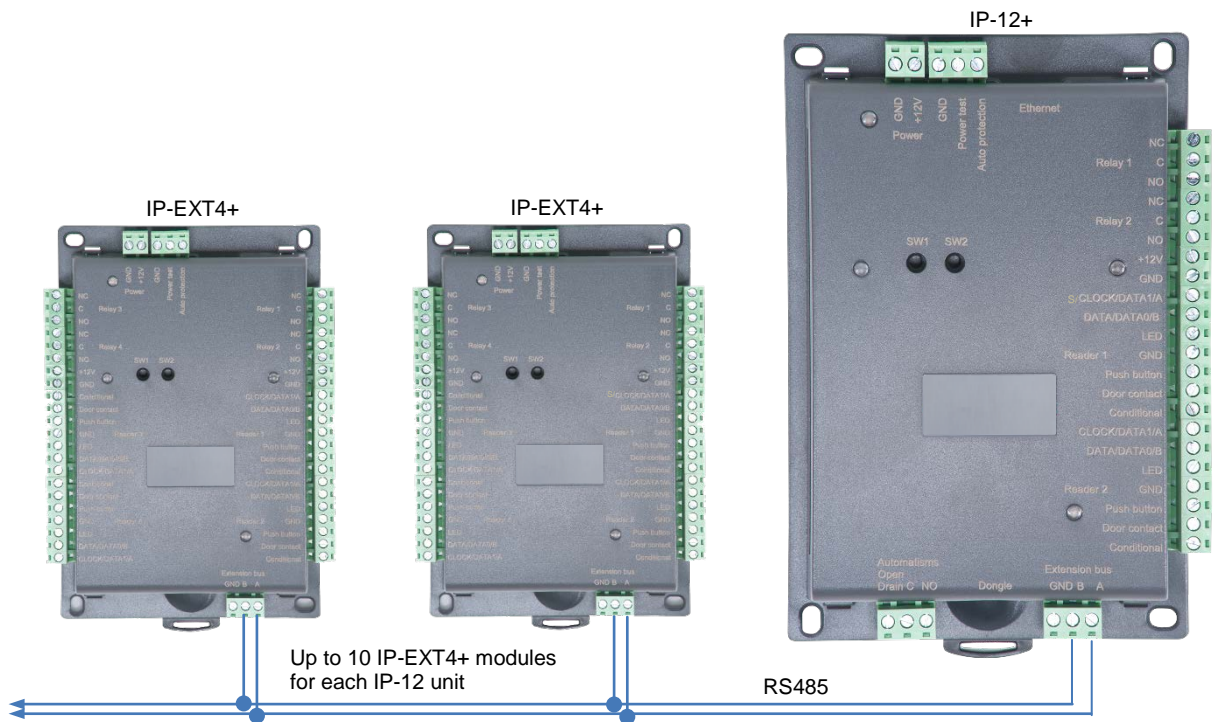
5 conductors (3 pairs recommended)
 Max. distance: 150 m
 Cable type: 0.6 mm (SYT recommended)
 Shield: Optional

Warning: Do not install the cables near other high voltage or high current cables, particularly 220V or higher.

Note: Each reader can have different technology (e.g. Reader 1 using Wiegand, Reader 2 using Clock & Data), except if using S BUS.

Warning: If you use an external power supply for your proximity readers, take care to **connect the various earths to that of the module.**

CONNECTION TO THE IP-12+ UNIT



Information:

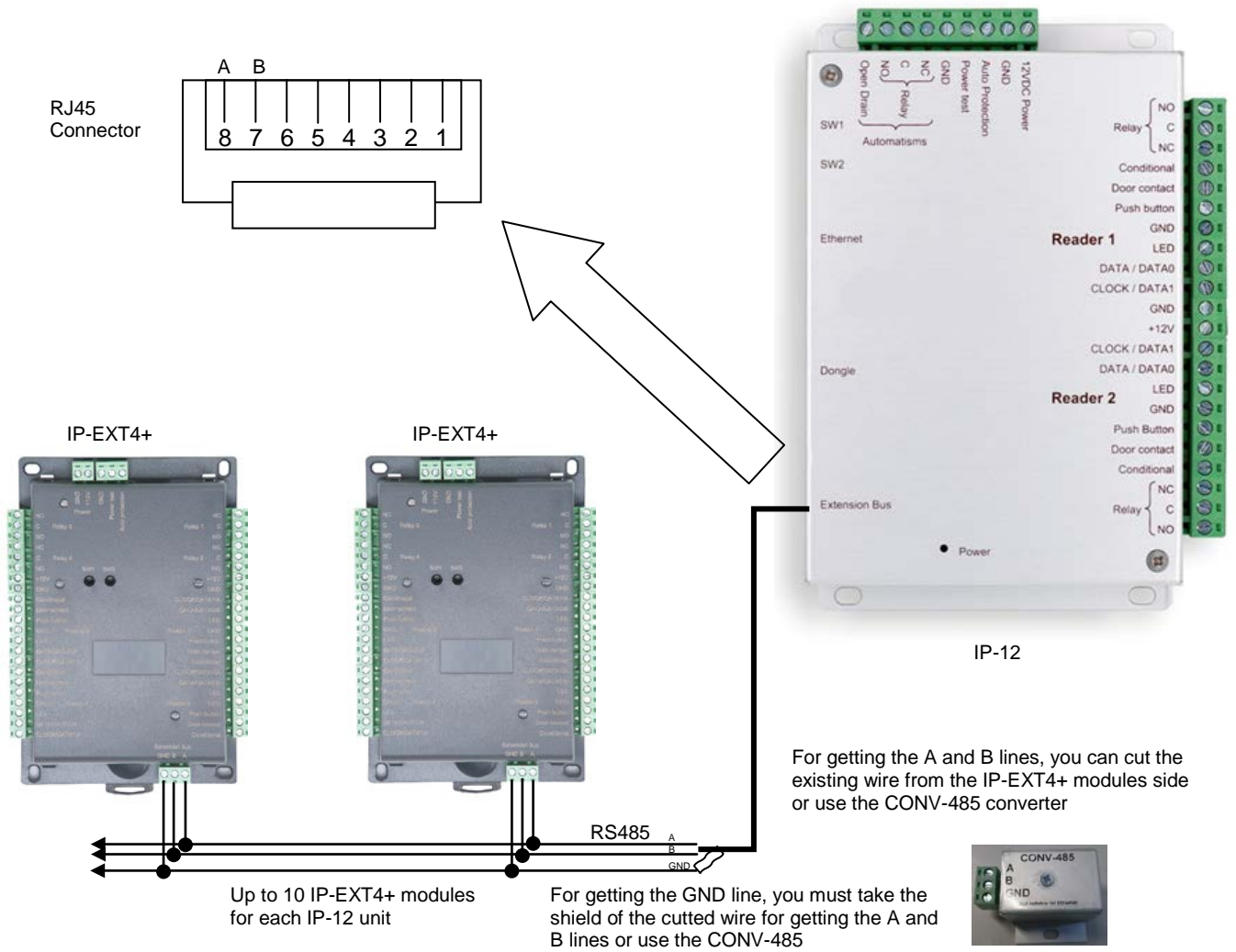
2 conductors (2 pairs recommended)

Max. distance: 750 m

Cable type: 0.6 mm (SYT recommended)

Warning: Do not install the cables near other high voltage or high current cables, particularly 220V or higher. Use the same pair for the A and B lines.

CONNECTION TO AN EXISTING IP-12 UNIT



For getting the A and B lines, you can cut the existing wire from the IP-EXT4+ modules side or use the CONV-485 converter

Up to 10 IP-EXT4+ modules for each IP-12 unit

For getting the GND line, you must take the shield of the cutted wire for getting the A and B lines or use the CONV-485

Information:

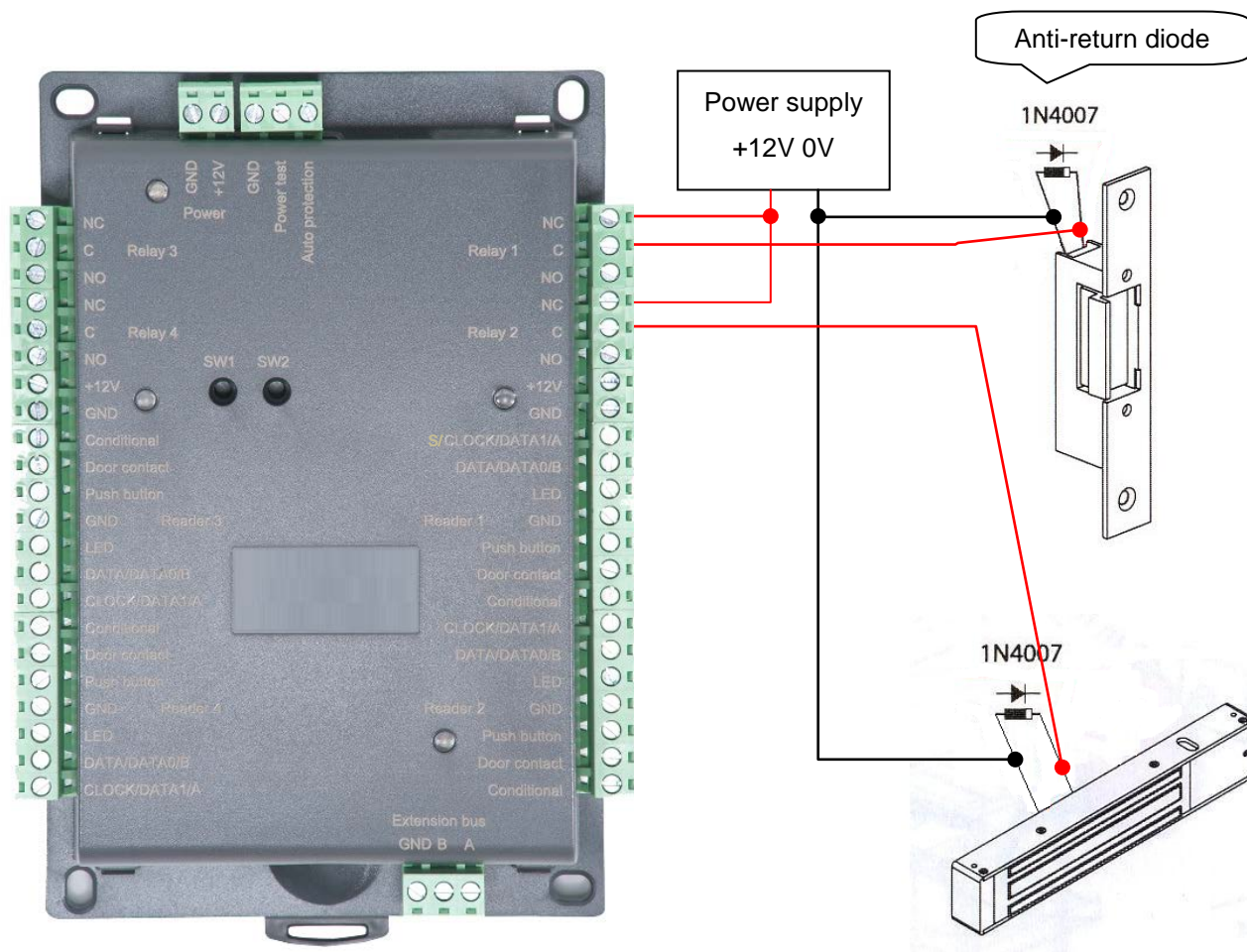
2 conductors (2 pairs recommended)

Max. distance: 750 m

Cable type: 0.6 mm (SYT recommended)

Warning: Do not install the cables near other high voltage or high current cables, particularly 220V or higher. Use the same pair for the A and B lines.

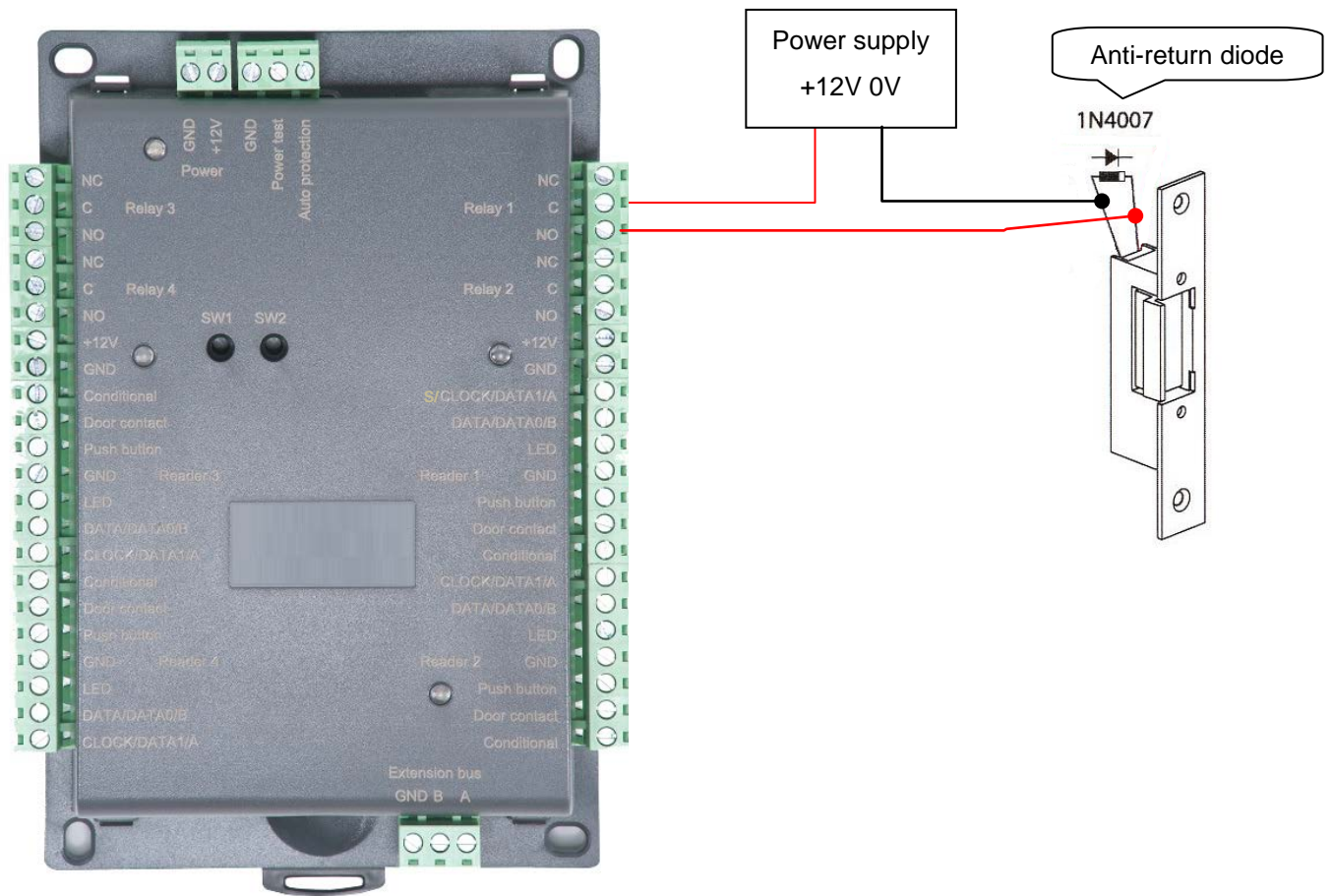
CONNECTING A POWER LOSS BOLT AND AN ELECTROMAGNETIC DOOR LOCK OPERATING ON POWER LOSS



Warning: In order to prevent random malfunctions that may interfere with proper system operation due to back-currents, it is imperative to use and connect the anti-back-current diodes supplied with the unit in compliance with the cabling diagram above.

Even when using an additional uninterruptible power supply for locking separate to that of the unit, it is obligatory to follow the above cabling diagram.

CONNECTING A STANDARD POWER-ON DOOR LOCK



Warning: In order to prevent random malfunctions that may interfere with proper system operation due to back-currents, it is imperative to use and connect the anti-back-current diodes supplied with the unit in compliance with the cabling diagram above.

Even when using an additional uninterruptible power supply for locking separate to that of the unit, it is obligatory to follow the above cabling diagram.

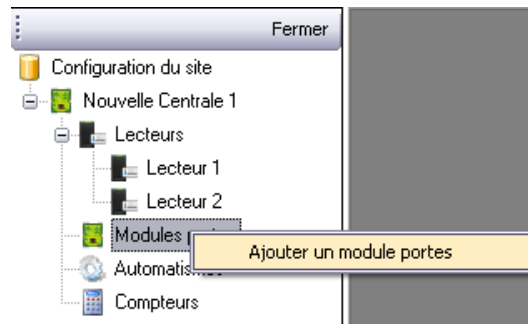
SETTING UP THE MODULE IN DOMOS

To configure your DOMOS software, you will need the module identifier. This is printed on a sticker on the top of the housing (e.g. ID: 00001). Make a note of this number.

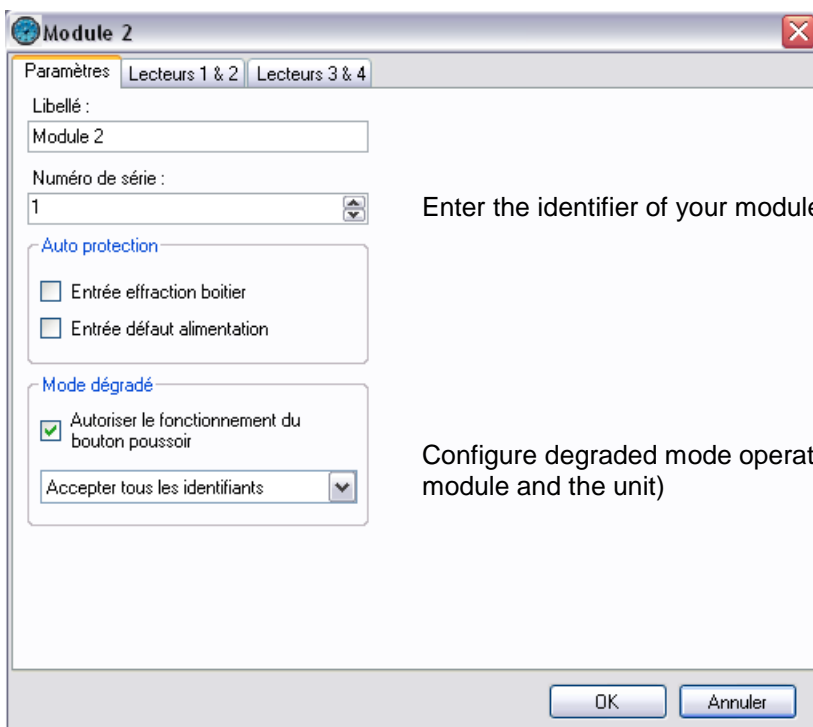
Click on the “Technique” (Technical) button and then “Configuration du site” (Site configuration).



Under the unit your module is connected to, click on “Modules portes” (Door modules) and then “Ajouter un module” (Add a module).



The following window will then be displayed:



FUNCTIONS OF THE TERMINALS

