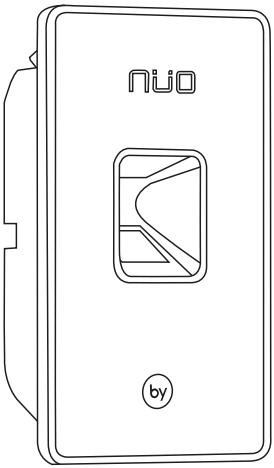


Installation manual

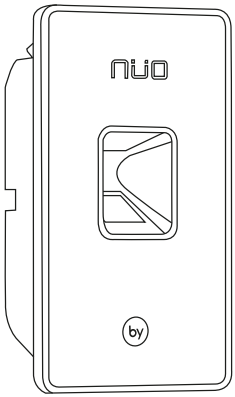
NÜO PASS

42106 | 42142

GENERAL FEATURES

NÜO PASS (Ref. no. 42106 and 42142)

- Combined biometrics reader with proximity.
- High resolution 500 dpi optical fingerprint sensor.
- Maximum security proximity reader for MIFARE Plus® cards and MIFARE® DESFire® EV1, MIFARE® Classic and MIFARE Ultralight® cards available on demand.
- Proximity card reader from a distance of 3 to 5 cm.
- Acoustic-light indicators to show when the credentials have been granted or denied access, in addition to the reader operating mode (fingerprint only, card only, fingerprint or card, etc.).
- Capacity for up to 9,500 users with fingerprints on card.
- Wear-resistant surface finish.
- Flush mounted for indoor use.



REGULATIONS

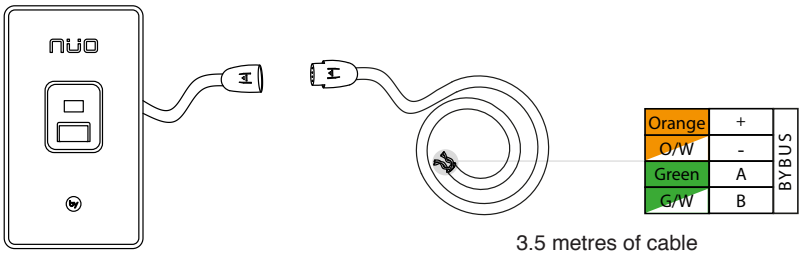
ISO/IEC 14443 A and B.
AES128 NIST FIPS PUB 197 MIFARE Plus® certificado de acuerdo a Common Criteria level EAL4+ .
NFC MIFARE® emulation compliant.
NFC MIFARE® emulation compilant.
EN 60950-1 2001 and A1: 2004.
EN 300 330-2 v1.3.1.

CE

TECHNICAL SPECIFICATIONS	
NÜO PASS:	
INPUT VOLTAGE	24 VDC (11 - 28 VDC)
MAXIMUM POWER	5 W
READING DISTANCE	3 - 5 cm
FINGERPRINT SENSOR TYPE	Optical
SENSOR RESOLUTION	500 dpi
MAX. NO. FINGERPRINTS	9,500 fingerprints (1:1) - 1,000 (1:N)
COMMUNICATIONS	BUS RS-485
INPUTS	1 Door sensor input
OUTPUTS	1 Output for lock control 24 vDC / (250 mA maximum)
ILLUMINATION	Colours according to status: RED/WHITE: Terminal offline DEGRADED RED/PINK: Terminal in enrolment mode FLASHING BLUE: Terminal in firmware update mode. BLUE: Terminal on standby / standard security GREEN: Access granted / Unrestricted RED: Access denied / Door blocked WHITE: Reading fingerprint/card FLASHING WHITE: Fingerprint enrolment PURPLE: High security mode PINK: Very high security mode YELLOW/GREEN: Emergency FLASHING YELLOW: Connected but not configured
AUDIO	Differentiated sound indicators for granted and denied access and statuses.
OPERATING TEMPERATURE	-10 °C to 50 °C
READER DIMENSIONS	140 x 80 x 54 mm (height x width x depth)

TYPE OF WIRING AND WIRING DISTANCE:

The NÜO PASS incorporates a male overhead connector.
NÜO PASS is supplied with a 3.5 metre piped cable with 4 wires (2 twisted pairs) and a female connector at one end to correctly connect it.
The other end of the piped cable is connected to a single door controller or to the corresponding Wili following the simple colour coding.



The wiring distance from the reader and the single door controller or Wili should not exceed 25 metres in length under any circumstances.

WIRING SPECIFICATIONS:

The built-in piped cable used to connect the reader has the following technical characteristics:

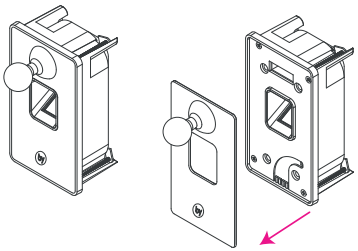
- Gauge: 0.22 mm
- Arrangement: 2 twisted pairs
- Resistance: <2 Ohms

DISTANCE BETWEEN READERS:

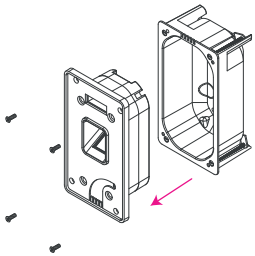
A minimum distance of 12 cm must be maintained if installations are made with doors with 2 input/output readers or with 2 readers that are very close together.

- STEPS PRIOR TO INSTALLATION:

1) Remove the front panel using the suction cup provided. The panel will be easier to remove if the suction cup is placed in a corner.

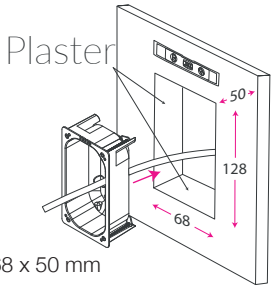


2) Unscrew the flush mount support.



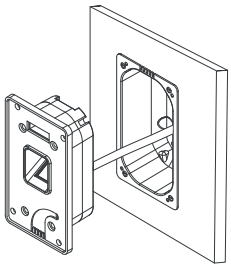
- INSTALLATION ON BUILT WALLS:

3) Using a level, make a hole in the wall with the dimensions detailed in the diagram. Pass the connecting cable through and grout the hole.

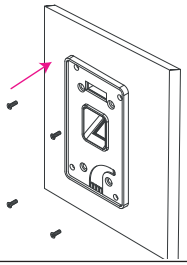


128 x 68 x 50 mm

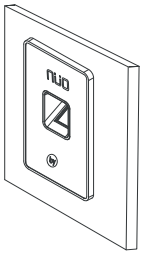
4) Insert the flush mount support and pass the cable through one of the holes, then connect the assembly.



5) Tighten the screws, fastening the assembly to the flush mount base.



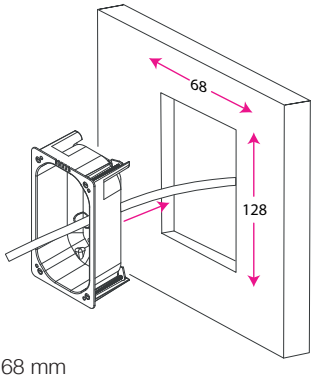
6) Place the front panel.



- INSTALLATION IN PLASTERBOARD (THICKNESS 10 - 25mm)

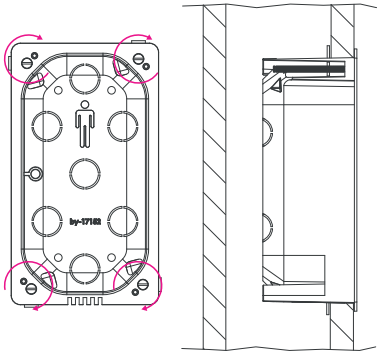
1) Follow the initial steps listed in page 6.

2) Make a hole in the plasterboard with the dimensions detailed in the diagram.

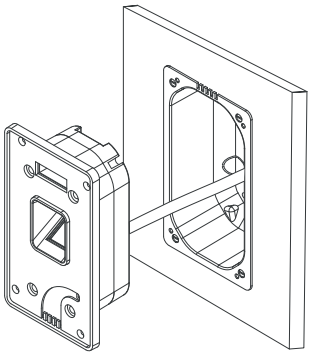


128 x 68 mm

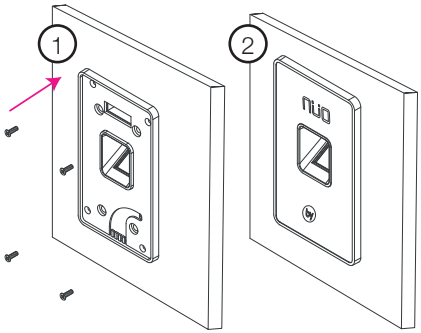
3) Insert the flush mount support and pass the cable through one of the holes, then secure it in place in the plasterboard using the tabs.



4) Connect the cable to the assembly that was removed beforehand.



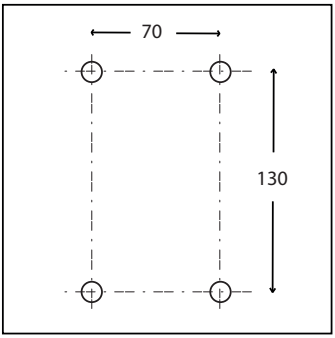
5) Tighten the assembly (1) and place the front panel (2).



- INSTALLATION ON CONCRETE WALLS:

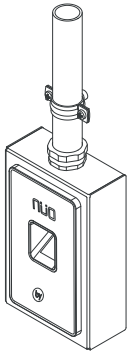
1) Follow the initial steps listed in page 6.

2) Make 4 holes at the distance marked for Fischer 5mm wall plugs.



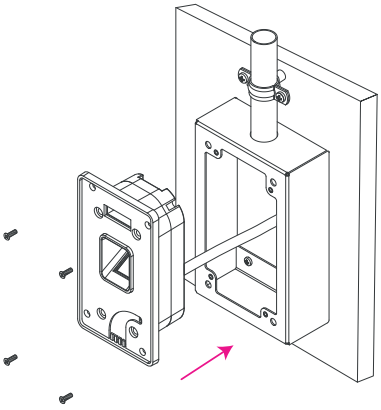
Distance between holes 130 x 70mm

3) Secure the mounting box using the 4 Fischer wall plugs and the screws supplied.

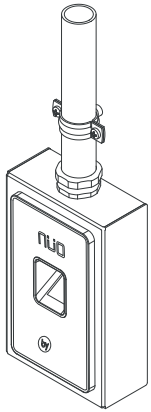


Mounting box: 42170

4) Connect the wiring pipe and pass the cable through, connecting the equipment.



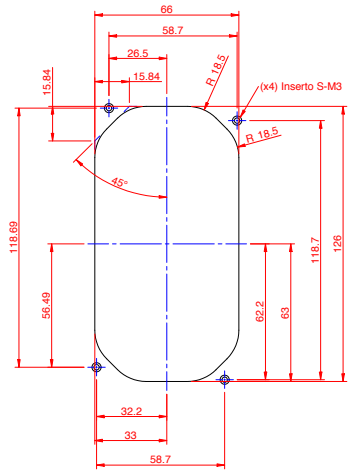
5) Tighten the screws and place the front panel.



- INSTALLATION IN OTHER ENVIRONMENTS:

1) Follow the initial steps listed in page 6.

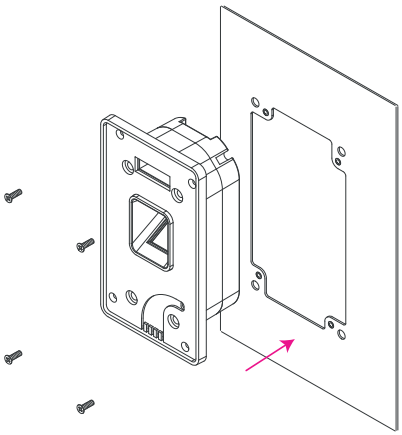
2) Make 4 M3 holes and another hole with the dimensions detailed in the diagram, taking the radii or chamfer dimensions into consideration.



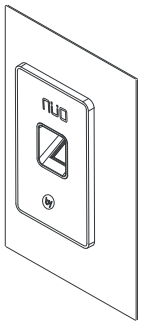
Units: mm

Machining on minimum thickness plate: 1.2 mm

3) Connect the cable to the equipment and fasten it using screws.



4) Place the front panel.



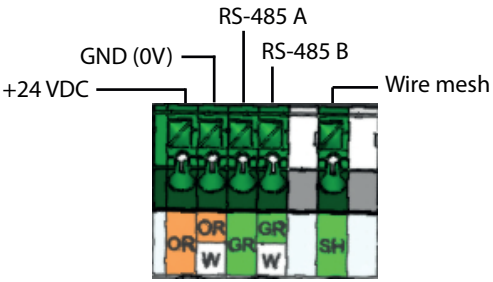
Install the equipment on outdoor or indoor surfaces that are free from vibrations.

Installation > NÜO PASS > Wiring

NÜO PASS readers can be directly connected to two types of devices depending on the architecture of the installation:

- Connection to a Wili.
- Connection to a single door controller.

The connection to be made for both types of devices is exactly the same. The colour code must be followed. For more detailed information, consult the equipment manuals referenced earlier.



READER WIRING:

COLOUR	SIGNAL	
Orange	+ 24VDC	BY BUS
Orange/White	0V / GND	
Green	RS-485-A	
Green/White	RS-485-B	

Install and connect the reader before powering the system.

NÜO readers use the 24 VDC input voltage corresponding to the controller equipment to which they are connected, the power sources of which are rigorously prepared for such purpose.

These signals must be perfectly isolated in order to prevent damaging the equipment or installation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipmentÿ

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.