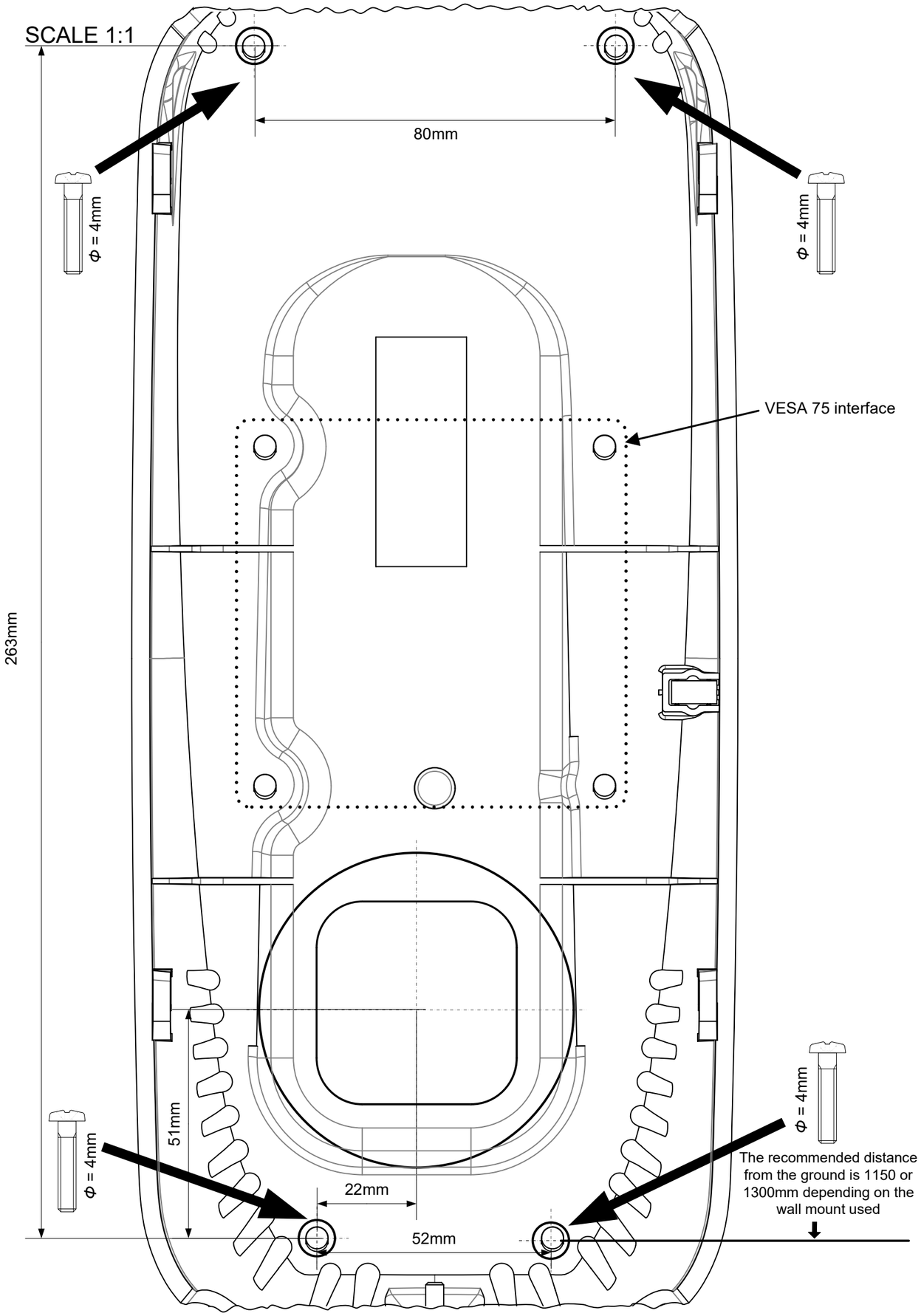


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Detailed instructions are available at
Des instructions détaillées sont disponibles sur
El detalle de las instrucciones está disponible en

https://biometricdevices.idemia.com

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Regulatory, Safety and Environmental Notices

Products bearing the CE marking comply with one or more of the following EU Directives as may be applicable:

- Radio Equipment Directive (RED) 2014/53/UE
- RoHS Directive 2011/65/EU.

Compliance with these directives is assessed using applicable European Harmonised Standards.

Reach: Declaration letter available on : https://biometricdevices.idemia.com

The installation of this product should be made by a qualified service Person and should comply with all local regulations.

It is strongly recommended to use a class II power supply at 12V-24V and 3 A. min (at 12V) in conformity with Safety Electrical Low Voltage (SELV). The AC power supply cable length should not exceed 10 meters.

This system must be installed in accordance with the National Electrical Code (NFPA 70), and the local authority having jurisdiction.

This product is intended to be installed with a power supply complying with IEC 60950-1 or IEC 62368-1, in accordance with the NEC Class 2 requirements; or supplied by a listed IEC 60950-1 or IEC 62368-1 external Power Unit marked Class 2, Limited Power source, or LPS and rated 12VDC, 3 A minimum or 24VDC, 1.5 A minimum.

In case of building-to-building connection it is recommended to connect 0V to ground. Ground cable must be connected with the terminal block Power Ground.

Note that all connections of the VisionPass terminal described hereafter are of SELV (Safety Electrical Low Voltage) type.

This symbol means do not dispose of your product with your other household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment.

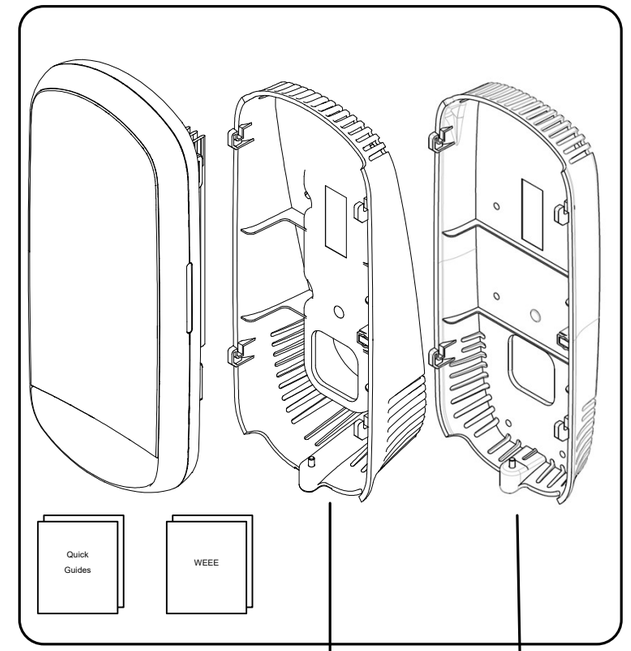
This product is classified as Class 1 Laser Product according to IEC 60825-1 : 2014.

Anatel Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

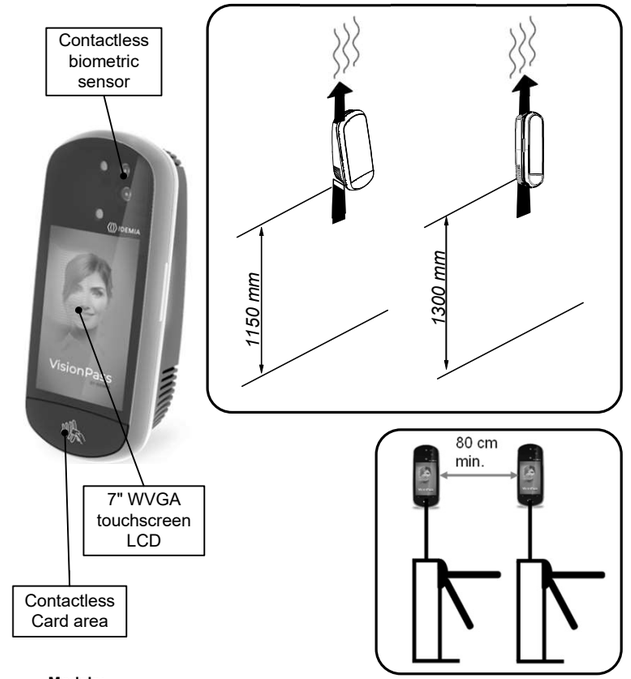
Para maiores informações, consulte o site da ANATEL : www.anatel.gov.br

VisionPass

Quick Installation Guide



IDEMIA



Models:

VisionPass MD	(MPH-AC006A)
VisionPass MDPI	(MPH-AC006B)
VisionPass MDPI-M	(MPH-AC006C)

UL294 Performance levels				
Access Control Line Security	Destructive Attack	Endurance	Stand-by Power	Conditions
Level I	Level I	Level IV	Level I	NA

IDEMIA recommends 24V VDC 3A individual power supply for each VisionPass unit. Please read the installation guide for additional information

Wiring Overview

WARNING: Power Supply from electrical source shall be switched off before starting the installation.

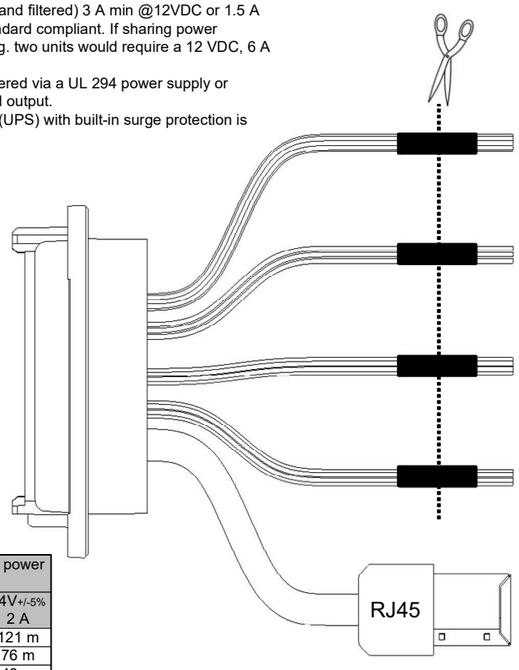
Before proceeding, make sure that the person in charge of installation and connections, is properly connected to earth, in order to prevent Electrostatic Discharges (ESD).

External Power supply: 12/24 VDC (regulated and filtered) 3 A min @12VDC or 1.5 A min @24VDC, IEC 60950-1 or IEC 62368-1 standard compliant. If sharing power between devices, each unit must receive 3 A (e.g. two units would require a 12 VDC, 6 A supply).
For UL 294 compliance the product is to be powered via a UL 294 power supply or access control panel with a class 2 power limited output.
A battery backup or uninterrupted power supply (UPS) with built-in surge protection is recommended.

IDEMIA recommends using a 24V power supply and AWG16 gauge cable. The voltage measured on the product block connector of the terminal must be equal to 12V-24V (-15% / +10%).
The product requires 36 W at all voltage conditions.
The voltage drop due to the cable shall be taken into account. The table below shows the maximum distance between power supply and 1 unique device, depending on cable gauge and power supply rating.

WARNING: Under powering may cause memory and data corruption; over powering may cause hardware damage. Both of these situations will void the warranty

Gauge AWG	Section (mm²)	Maximum distance (meters) vs power source rating			
		12V+/-10% 3.6 A	12V+/-5% 3.5 A	24V+/-10% 2 A	24V+/-5% 2 A
16	1.31	6 m	12 m	68 m	121 m
18	0.82	4 m	8 m	43 m	76 m
20	0.52	2 m	5 m	27 m	48 m
22	0.32	1 m	3 m	16 m	30 m



13	RLY_NC	Orange / White
14	RLY_NO	Yellow / White
12	RLY_COM	Grey / White
5	SWITCH_PIN1	Light Blue
6	SWITCH_PIN2	Pink
1-3	Power +12V	Red
2-4	Power GND	Black

7	RS422_RX_A	Blue / Black
8	RS422_TX_Z/RS485_B	Green / White
9	RS422_RX_B	Blue / White
10	RS422_TX_Y/RS485_A	Green / Black
11	RS422/485_GND	Black / Red

19	GPI2	Orange / Black
20	GPO2	Yellow / Black
17	GPI1	Orange / Red
18	GPO1	Yellow / Red
15	GPI0	Orange
16	GPO0	Yellow
22	GPIO_GND	Black / Red

25	WIEG_OUT_LED1	Blue
28	WIEG_OUT_LED2	Blue / Red
23	WIEG_IN_D1	White / Red
24	WIEG_OUT_D0	Green
26	WIEG_OUT_D1	White
21	WIEG_IN_D0	Green / Red
27	WIEGAND_GND	Black / Red

36	BI_DA+	Orange / White	1
34	BI_DA-	Orange	2
40	BI_DB+	Green / White	3
38	BI_DB-	Green	6
35	BI_DC+	Blue	4
33	BI_DC-	Blue / White	5
39	BI_DD+	Brown / White	7
37	BI_DD-	Brown	8
31	BI_GND	Drain wire (no color)	Shell

UL has not verified Wi-Fi Capabilities.
Ethernet connection is for supplemental use not UL evaluated.

For UL installations only Wiegand is to be used.
UL has not evaluated GPIO and RS422/485 communication.

Relay output 30VDC, 1 A (Resistive).
Tamper 30VDC, 100 mA (Resistive).

Deployment Environments

Operating temperature	-10°to + 45 °C (14°to 131°F)
Operating humidity	10 % < RH < 80 % (non condensing)
Storage temperature	- 25°to + 70 °C (-13° to 158°F)
Storage humidity	5% < RH < 95 %
IP code	IP65 rated For UL 294 compliance, the products are rated for indoor use

General precautions
- Do not expose the terminal to extreme temperatures.
- When the environment is very dry, avoid synthetic carpeting near the VisionPass terminal, to reduce the risk of unwanted electrostatic discharge.

Areas containing combustibles
- Do not install the terminal in the vicinity of gas stations or any other installation containing flammable or combustible gases or materials. The terminal is not designed to be intrinsically safe.

The terminal should be installed in controlled lighting conditions
- Avoid exposure of the biometric sensor to Direct sunlight

The terminal should be installed in controlled area in order to avoid water on the sensor.

Recommendations

The manufacturer cannot be held responsible in case of non-compliance with the following recommendations or incorrect use of the terminal.

Repair and Accessories
- Do not attempt to repair the VisionPass terminal yourself. The manufacturer cannot be held responsible for any damage/accident that may result from attempts to repair components. Any work carried out by non-authorized personnel will void your warranty.
- Only use the terminal with its original accessories. Attempts to use unapproved accessories with your terminal will void your warranty.

Date / Time synchronization
- The VisionPass terminal clock has a +/- 10 ppm typical time deviation at +25ºC (roughly +/- 1sec per day). At lower and higher temperature, deviation may be greater (maximum : 8sec per 48 hours).
- When the terminal is used for applications requiring high time precision, it is strongly recommended to synchronize the terminal with an external clock.

Firmware release
- To get the best of our technology, we recommend you to download and install the last firmware release. Please check our website.

Overvoltage
- IDEMIA recommends the Biometric devices to be protected with an external accessory in order to avoid overvoltage on input wires or connectors of the device. Typically, risks of overvoltage have been identified on external power management wire, POE connector and wiegand input wire..

WARNING: Cleaning & Disinfection precautions

To clean the terminal, a dry cloth is recommended, especially the biometric sensor.

To remove the dust out of the sensor glass, use dry air spray.

To disinfect the terminal, moisten a non-abrasive wipe with the disinfectant Windex® Multi-Surface (or similar product containing L-Lactic acid) or hydrogen peroxide (<3%) and wipe the device's surface and leave the surface wet with disinfectant for at least 5 minutes. Any other practices (bleach, chlorine, soda, alcohol, quaternary ammonium etc) permanently damage and/or negatively impact the performances of the device.

