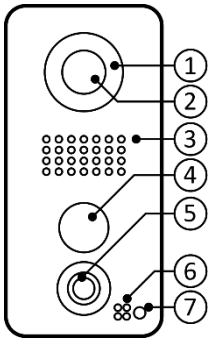
VMBVP01 VIDEO DOOR STATION – INSTALLATION GUIDE

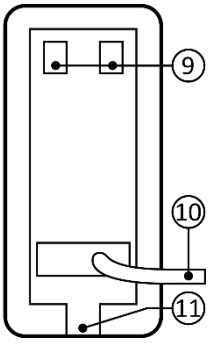
1 COMPONENTS

VMBVP01S (surface mounted model)

Front side

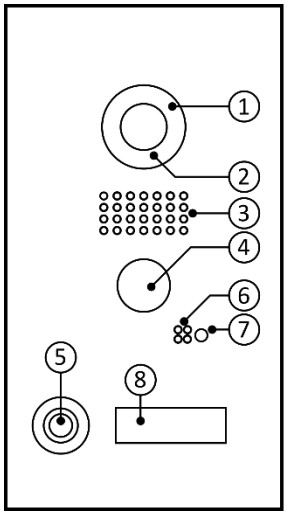


Back side

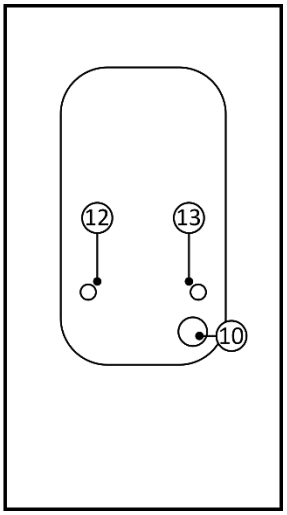


VMBVP01F (flush mounted model)

Front side



Back side



1. Night vision: extra bright infra-red LEDs, effective during darkness (infra-red light invisible to the human eye, 850 nm)
2. HDTV video: ultra wide-angle hemispheric lens, 180°
3. Loudspeaker: large-sized and speech enhanced broadband speaker
4. Motion sensor: 180° infrared motion sensor
5. Stainless-Steel Button with illuminated LED ring (at night), also acts as diagnostic LED
6. Microphone with active noise cancellation
7. Light sensor for the night-vision mode
8. Nameplate, illuminated (at night)
9. Locking positions for the mounting plate
10. Connection wires (Velbus, LAN, ...)
11. Screw opening for the safety screw
12. (433 MHz RFID antenna connection – not used)
13. 2.4 Ghz Wifi antenna connection, to connect the external 2.4 Ghz Wifi antenna

2 INSTALLATION

REQUIREMENTS

Network speed and network components

Please ensure that the upload speed of your Internet connection is at least 0.5 Mbps. The user experience is only as good as your network speed, network stability and quality of your network components, such as your Internet router and WiFi access points or WiFi repeaters. Please also make sure that your network components are no older than two years old, have been manufactured by a well-known manufacturer, and have the latest firmware installed.

Should these requirements not be fulfilled, it may happen for example that the performance of audio and video is poor or push notifications are delayed or do not arrive on your smartphone or tablet at all.

High-speed Internet (via landline): DSL, cable or optical fibre
Network: 802.11b/g/n 2.4 GHz or Ethernet, with DHCP

Mounting location

The video door station uses an ultra wide-angle hemispheric lens so that even when the person is a minimum distance of 50 cm (20 inches) away from the video door station, a low installation height is sufficient. The lens is

therefore not mechanically adjustable. The camera lens should be located at an altitude of at least 125 cm (49.20 inches).

Power supply

The video door station must be powered through the Velbus bus cable (15±3VDC), and can optionally receive complementary power through PoE (Power over Ethernet). When using PoE together with the Velbus power supply, most current (max. 300mA at 15 VDC) will be drawn through PoE and only a small part (about 30mA at 15 VDC) will be drawn from the Velbus supply.

The video door station does not use battery power. The use of a mains power supply permits the transmission and display of on-demand live video at any time and not only when a visitor has pressed the doorbell.

Option 1: Power supply only via the Velbus bus cable

When you connect the 4 wires of the Velbus bus cable to the video door station (cfr. the mounting instructions), it will automatically receive power supply through the bus cable (max. 300mA at 15 VDC).

Option 2: Power supply via the Velbus bus cable and PoE

The video door station must always be connected to the four wires of the Velbus bus cable (including the power supply). Apart from the Velbus power supply, the video door station can also (complementary) be powered through PoE (Power over Ethernet). In that case only approximately 30 mA (at 15 VDC) will be supplied by the Velbus power supply, the rest (300 mA max. at 15 VDC) will be supplied by the PoE connection.

To power the video door station via a PoE switch (e.g. D-Link DGS-1008P) or PoE injector (e.g. TP-Link TL-PoE150S) in accordance with the PoE standard IEEE 802.3af Mode A, the four wires bearing the numbers 1, 2, 3 and 6 of a Cat.5 cable or better are to be used. A Cat.5 cable or better must be used as network signals can only be transmitted over completely insulated, shielded and twisted cables. If you use PoE as a source of power, the WiFi interface of the video door station is automatically inactive, and the four wires for PoE then simultaneously form the data link. The video door station won't start if your PoE Switch or PoE injector does not support the PoE Standard IEEE 802.3af Mode A.

Network connection

You can connect the video door station to your network via a network cable (Ethernet), or alternatively use Wifi. For reasons of network stability and speed, we recommend using a network cable, as WiFi is less reliable and sensitive to interference (house walls acting as shields, third party WiFi networks, wireless transmitters causing interference in the area, etc.).

MOUNTING, CONNECTING AND CONFIGURING THE VIDEO DOOR STATION

Please refer to the Mounting Instructions and the Quick Start Guide.

ELECTRIC DOOR OPENERS AND DOOR CHIMES

Through its connection with the Velbus system, the video door station acts like a Velbus input module. Whenever the bell button is pressed, the motion sensor is activated or the door opener button (in the Doorbird app) is pressed, the corresponding Velbus input channels will be closed.

Electric door openers and door chimes are to be connected to Velbus relays instead of directly to the video door station. Using the Velbus configuration software Velbuslink, they can then be made to react to the bell button, door opener button (in the Doorbird app), and motion sensor of the video door station.

In the same way, any other element in the Velbus installation (lights, blinds, ...) can be made to react to the video door station input channels.

> For more information on Velbus configuration, please refer to the Velbus Installation Guide (free download on www.velbus.eu.)

DIAGNOSTIC LED AND SOUNDS

The diagnostic LED (see Components p. 1) lights up as soon as the video door station is supplied with power, and remains lit up for five minutes. It is also continuously lit up at night.

Between two to five minutes after the video door station has been supplied with power, it emits brief diagnostic sounds:

- 1 beep = the video door station is connected to the internet

- 2 beeps = the video door station is able to communicate with the router, but cannot access the internet
- 3 beeps = the video door station has no connection to the network

CHANGING THE LABELING ON THE NAME PLATE (VMBVP01F)

A small metal plate with a straight edge to one side and a rounded edge to the other is supplied with the video door station, taped to a card with illustrated instructions on how to use it. Insert the straight end of the metal plate into the labeling slot at the side. Then pull on the metal plate and remove the name plate which can then be labeled.

FURTHER INFORMATION

More information, specs, features, FAQs and downloads can be found at www.velbus.eu.