basIP

USER MANUAL

AV-06M



INDIVIDUAL ENTRANCE PANEL



Main features

- **Panel type:** Individual.
- **Camera:** 1/2.8”.
- **Resolution:** 2 Mpx.
- **Camera angle:** 110° (horizontal).
- **Output video:** FullHD (1920 × 1080), H.264 Main Profile.
- **Wide Dynamic Range (WDR):** Yes.
- **Night backlight:** 12 LEDs.
- **Light sensitivity:** 0.01 LuX.
- **Protection class:** IP65.
- **IK-Code:** IK06.
- **Working temperature:** -40 — +65 °C.
- **Power consumption:** 5.5 W, in standby — 2.1 W.
- **Supported Cards:** Mifare®: Ultralight, Ultralight EV1, Light ID, Standard, Classic (1K/4K), Classic EV1 (1K/4K), DESFire Light (read-only UID, 4 bytes), DESFire EV1 (read-only UID, 4 bytes), NFC (ISO 14443).
- **Wi-Fi:** 2.4GHz (IEEE 802.11 n).
- **Power supply:** +12V DC, IEEE PoE 802.3af.
- **Memory card support:** MicroSD * up to 32GB.
- **Body:** Plastic.
- **Colors:** Black / Silver.
- **Size of the panel:** 52 × 137 × 28 mm.
- **Installation:** Surface mount, with or without rain cover (included).
- **Additional accessories:** 35° Angle bracket (sold separately).

* reserved; firmware update only.

The specifications and appearance of the device may differ from those stated or may change without prior notice.

ENTRANCE PANEL

AV-06M

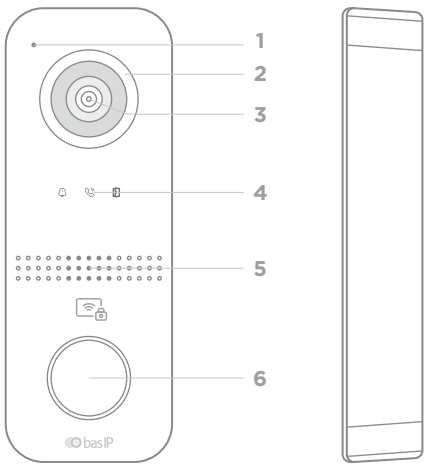
Full User Manual
wiki.bas-ip.com

Device description

The BAS-IP AV-06M is a sleek and compact single-button entrance panel designed for seamless video communication at villa entrances or front doors. Despite its slim profile, the panel features a Mifare card reader, high-quality camera, status LED indication, and robust access management capabilities.

It supports various identification methods, including access cards, QR codes, vehicle license plates, and remote control via an indoor monitor. With the BAS-IP SH-12 accessory, the AV-06M can also connect to external access keypads or advanced readers, enhancing its versatility and functionality.

Appearance



1 - Microphone.
2 - Backlight.
3 - Camera.
4 - 3 indicator LEDs:
  Calling /
  Talking /
  Lock-release
5 - Loudspeaker.
6 - Mechanical call button and identifier reader.

EAN: 5060514915608 (BLACK) EAN: 5060514915615 (SILVER)

Completeness check of the product

Before installation of the outdoor panel, it is necessary to check that it is complete and all components are available.

Outdoor panel kit includes:

Outdoor panel	1 pc
Surface mounting bracket with a hood / without hood	1 pc / 1 pc
Manual	1 pc
Set of wires with connectors for connection of power supply, lock, and additional modules	1 pc
Protective cover with a seal	1 pc
Set of screws with a wrench	1 pc

Electrical connection

After verifying the device's completeness, you can switch to the outdoor panel connection.

For connection you will need:

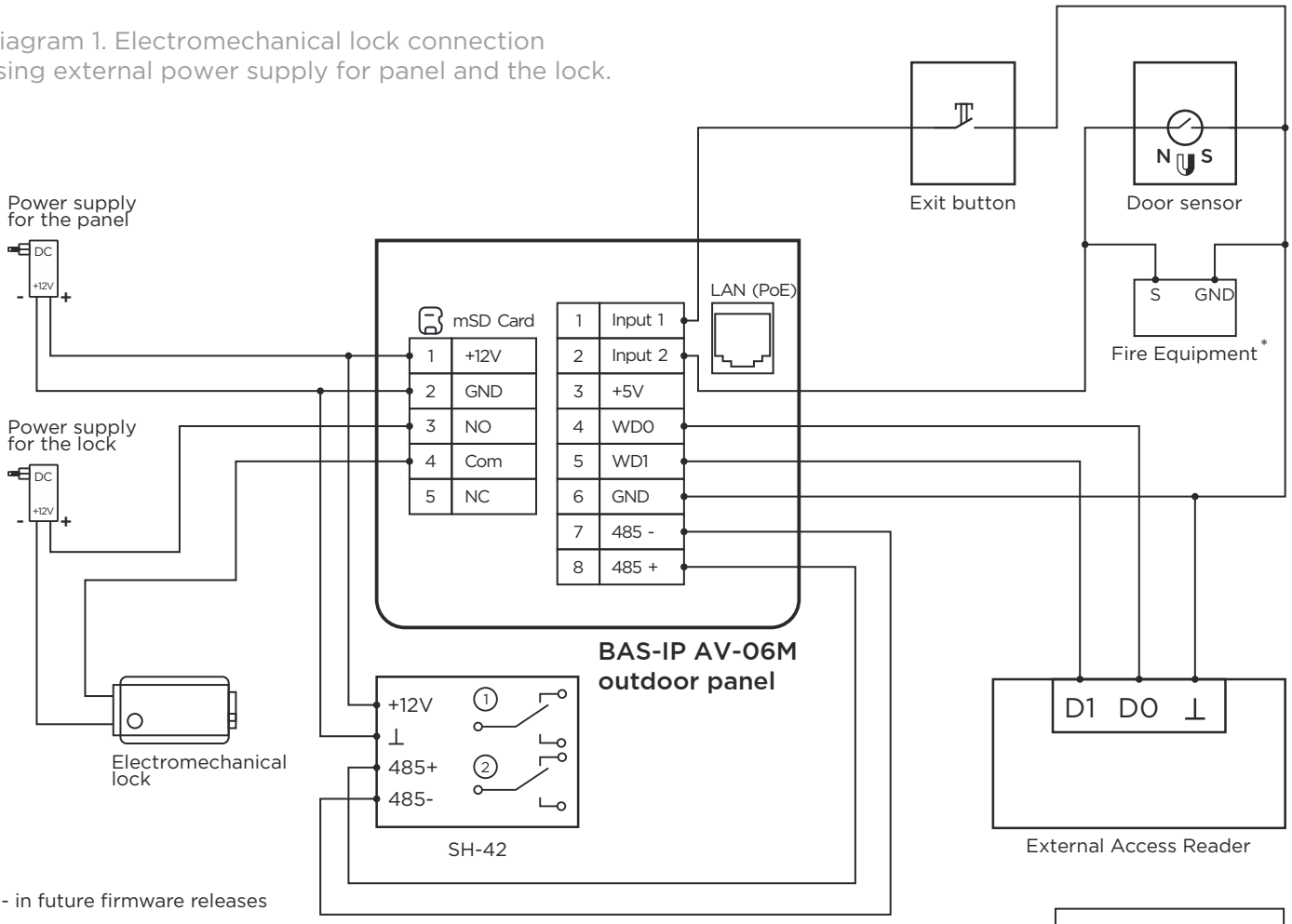
- An Ethernet UTP CAT5 or higher cable connected to a network switch / router.

Cable length recommendations
The maximum length of the UTP CAT5 cable segment should not exceed 100 meters, according to the IEEE 802.3 standard.

- Power supply at +12 V, 2 amps, if there is no PoE.
- Wires must be brought for the connection of exit button, fire alarm, door sensor and lock.

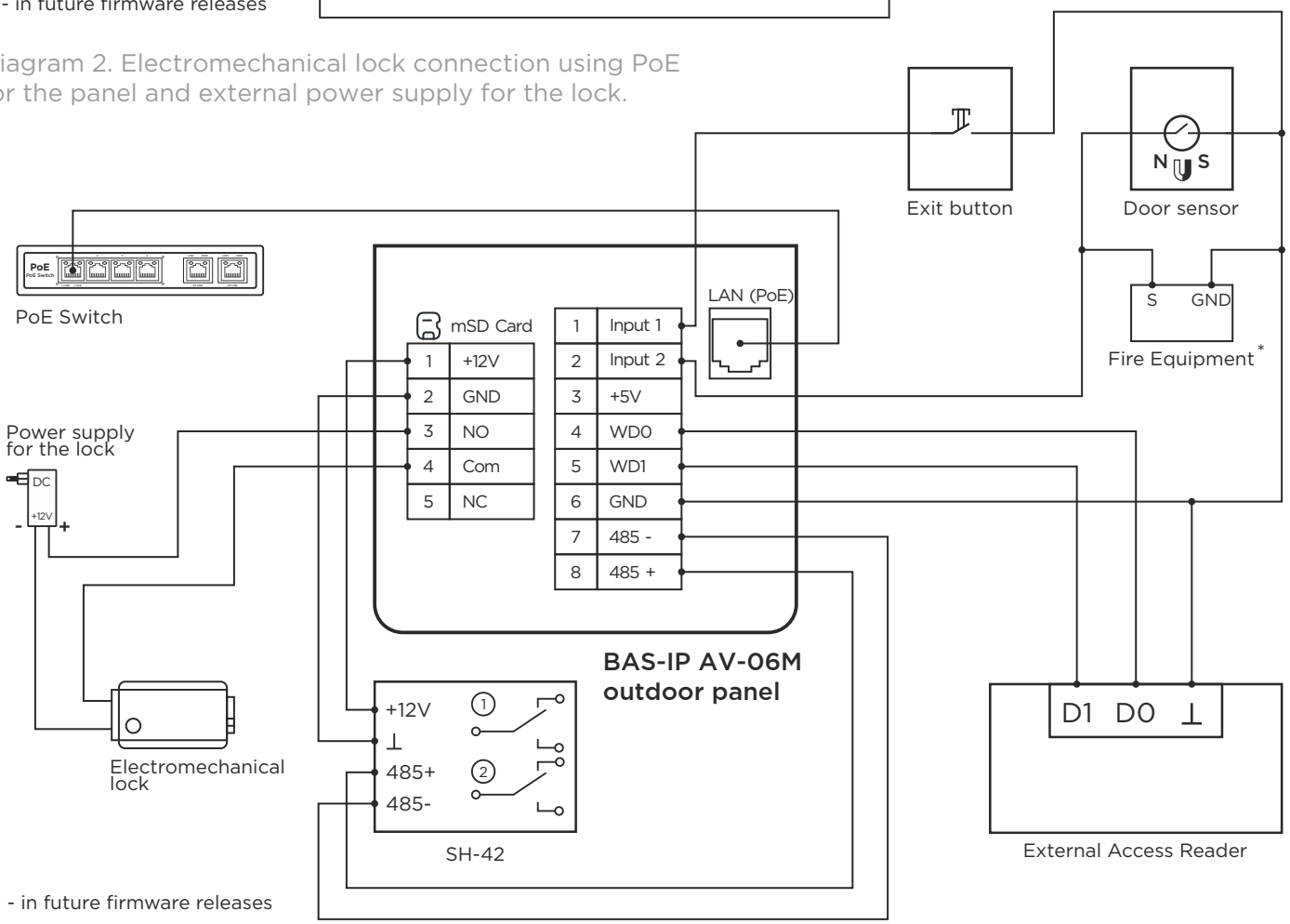
You can connect any type of electromechanical or electromagnetic lock for which the switched current does not exceed 2 amps.

Diagram 1. Electromechanical lock connection using external power supply for panel and the lock.



* - in future firmware releases

Diagram 2. Electromechanical lock connection using PoE for the panel and external power supply for the lock.



* - in future firmware releases

Diagram 3. Wiring diagram for SH-42.2 with two electromechanical locks, each powered by its own separate power supply.

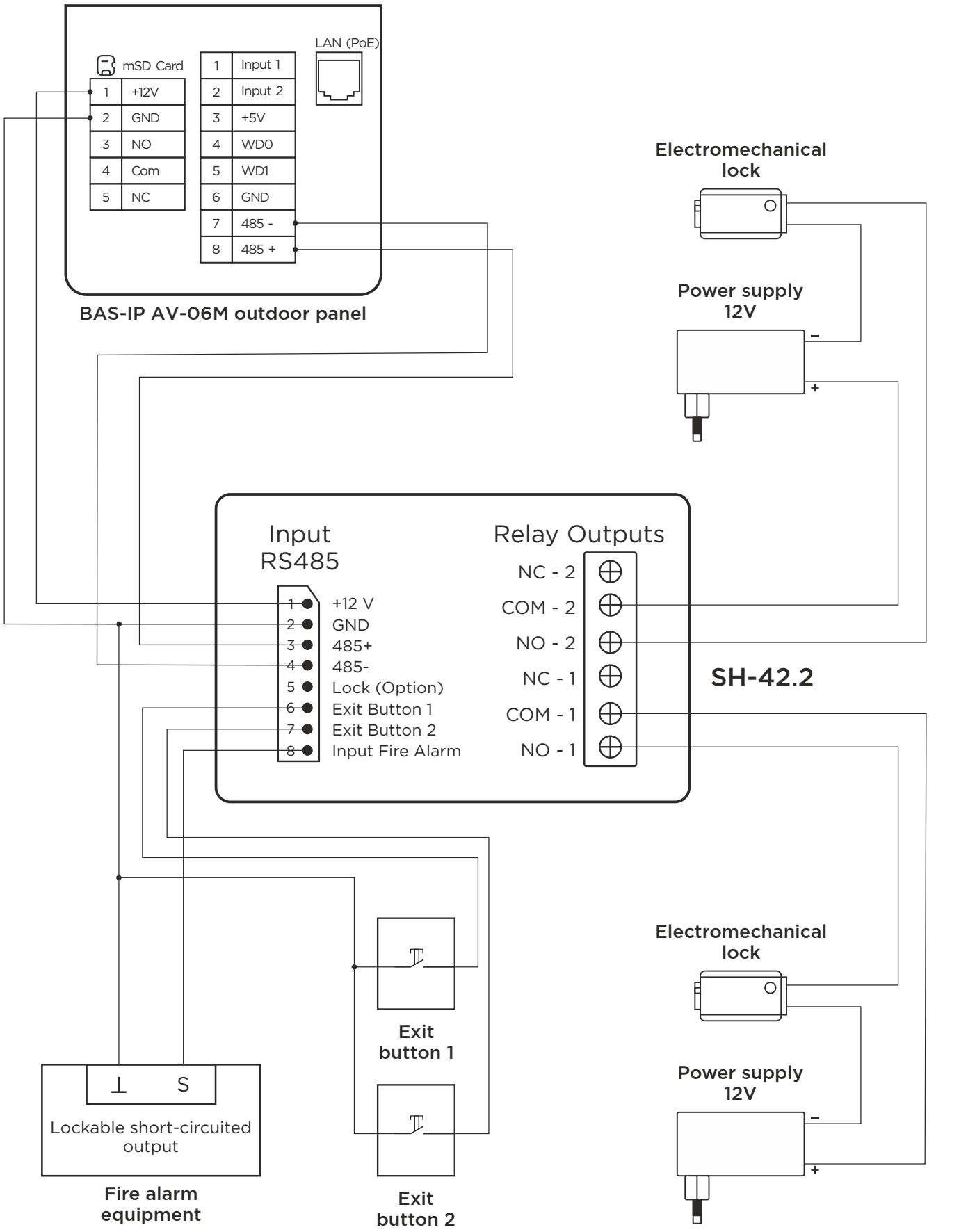


Diagram 4. Wiring diagram for SH-42.2 with two electromagnetic locks, each powered by its own separate power supply.

Electromagnetic lock connection
If AV-06M outdoor panel uses third party power supply and doesn't have UPS-BAS-IP then avoid using AV-06M internal relay for direct electromagnetic lock connection. In this case electromagnetic lock must be connected through the SH-42.2 - SH-42.8.

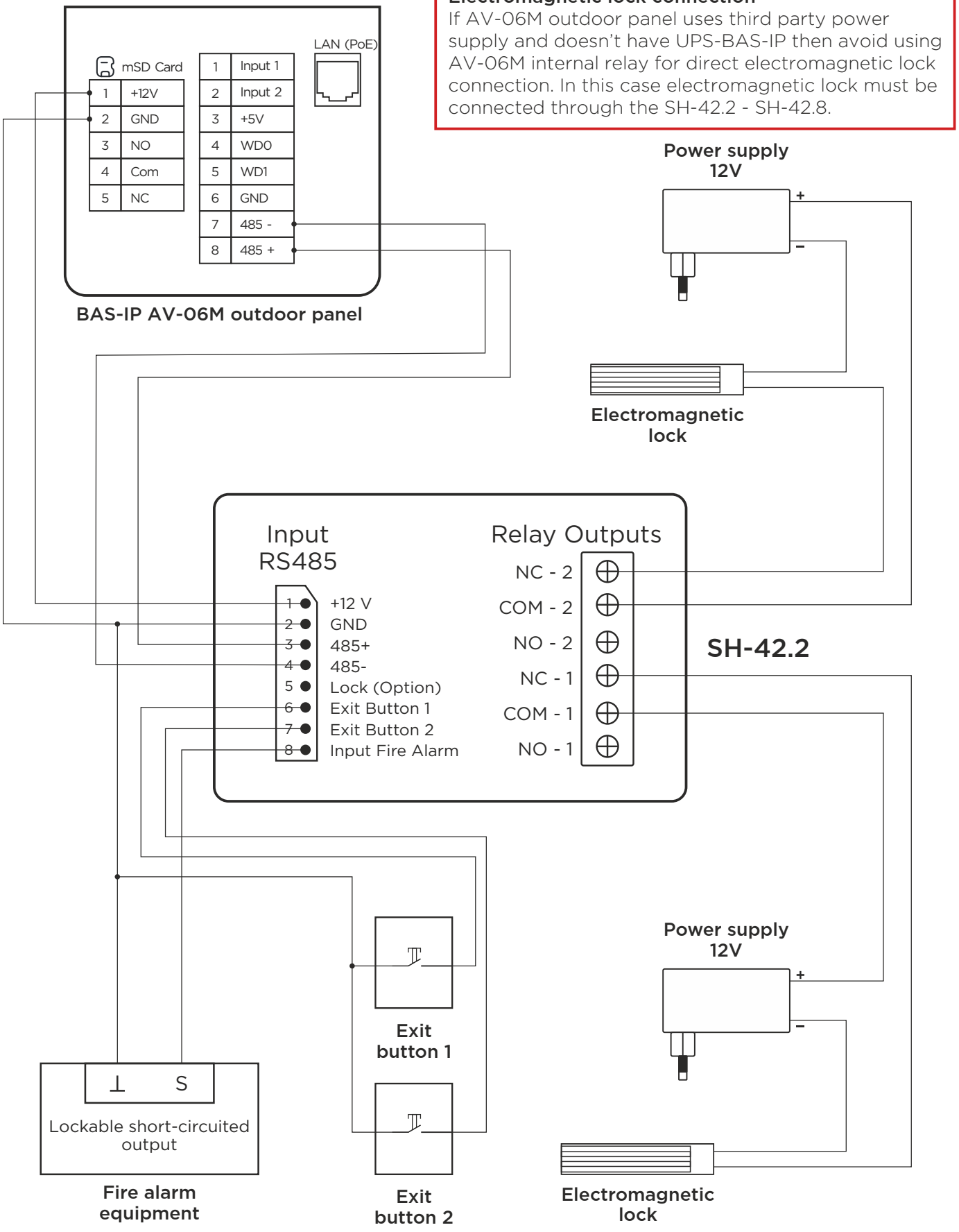


Diagram 5. Wiring diagram for SH-42.2 using the «Lock» input and an electromechanical lock powered by its own separate power supply.

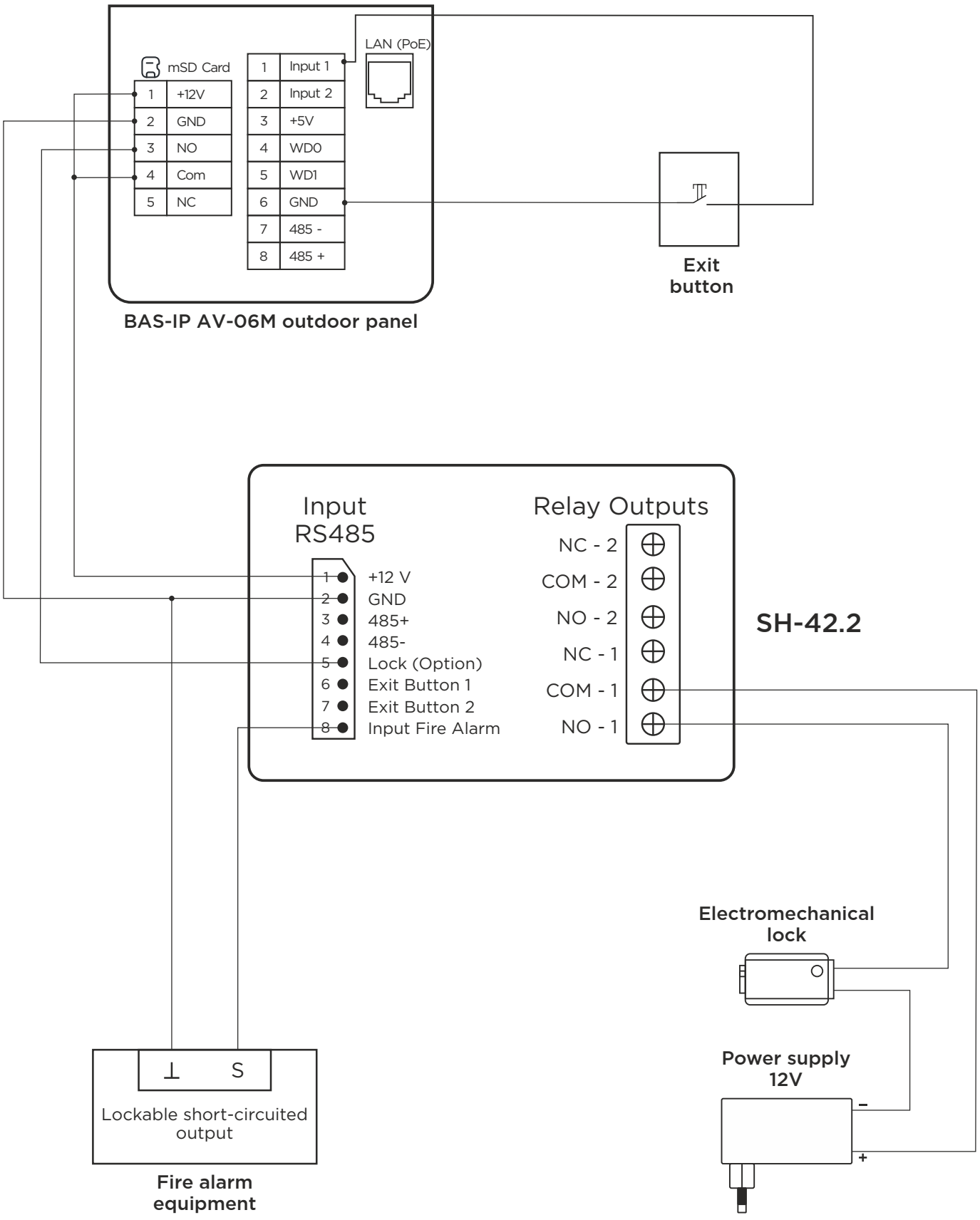
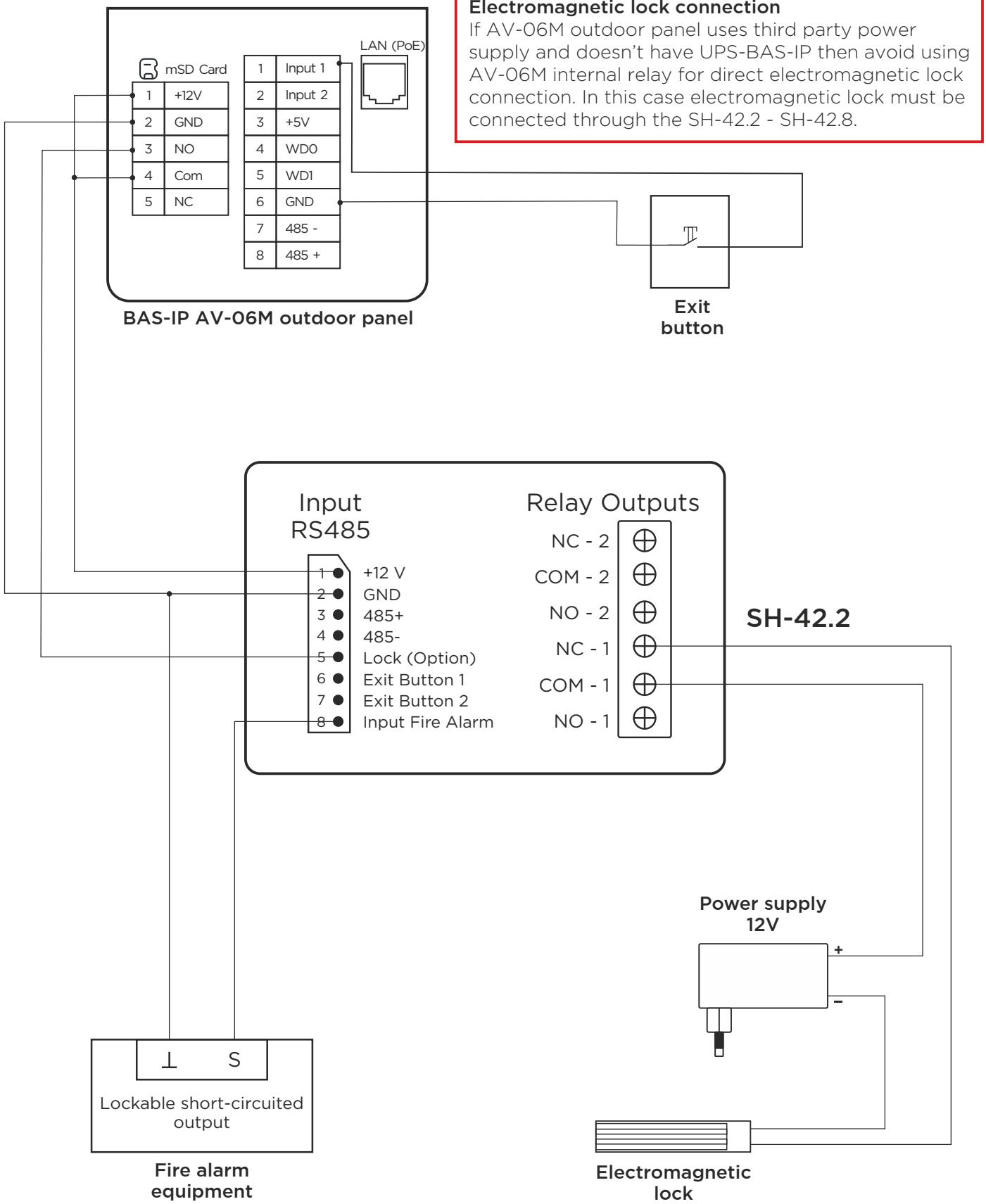


Diagram 6. Wiring diagram for SH-42.2 using the «Lock» input and an electromagnetic lock powered by its own separate power supply.

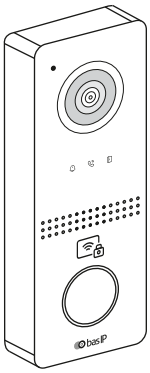
Electromagnetic lock connection
If AV-06M outdoor panel uses third party power supply and doesn't have UPS-BAS-IP then avoid using AV-06M internal relay for direct electromagnetic lock connection. In this case electromagnetic lock must be connected through the SH-42.2 - SH-42.8.



EAN: 5060514915608 (BLACK) EAN: 5060514915615 (SILVER)

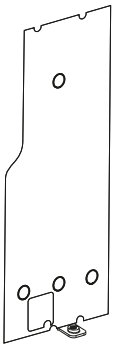
Surface installation process

1 Check the availability of all the components required for the installation, connection and fastening.



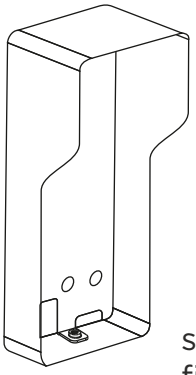
AV-06 outdoor panel

x1



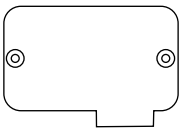
surface mounting bracket

x1



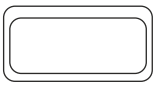
rain cover bracket

x1



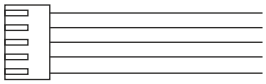
back cover

x1

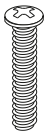


sealing gasket

x1

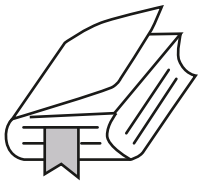


x1 set of wires with connectors



set of fixing screws

x1



user manual

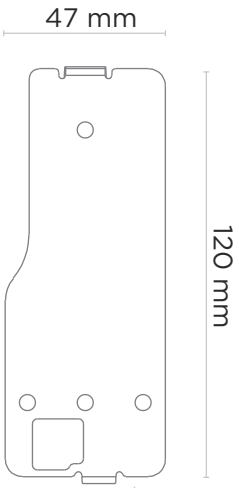
x1

2 Verify all the diamensions of the outdoor panel and the mounting bracket to suit intentional place of installation. Also it is necessary to provide power supply cable, cable from additional modules and local network cable to the place of panel installation.

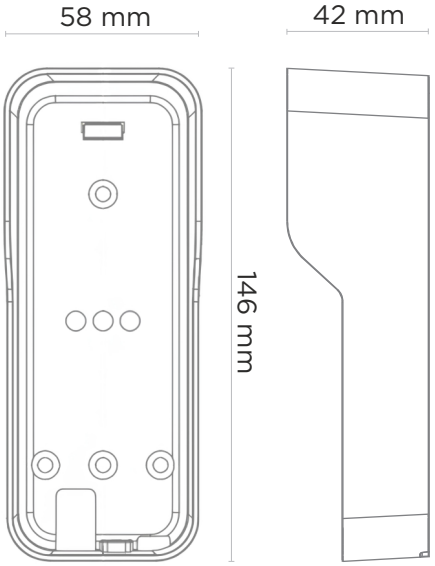
Outdoor Panel



Surface Bracket

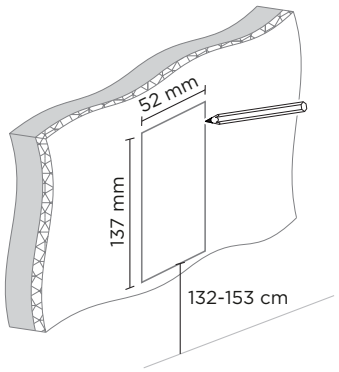


Rain cover

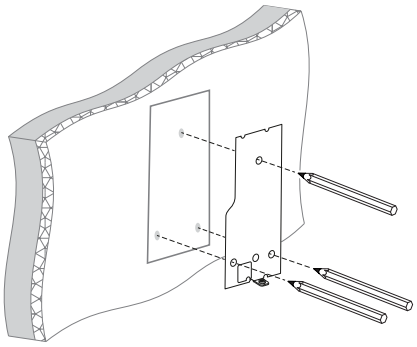


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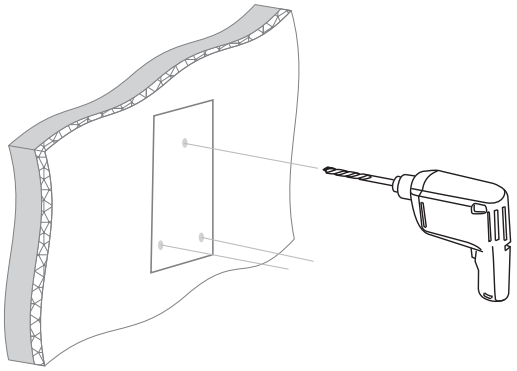
3 Draw a rectangle on the wall with specified dimensions.



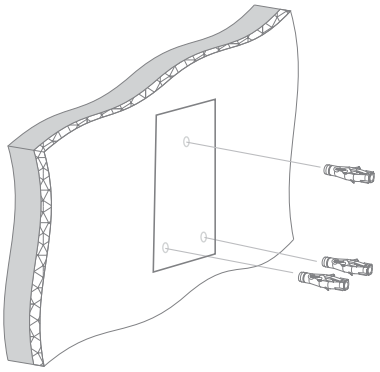
4 Place the surface mounting bracket against the rectangle. Mark the holes for the anchors.



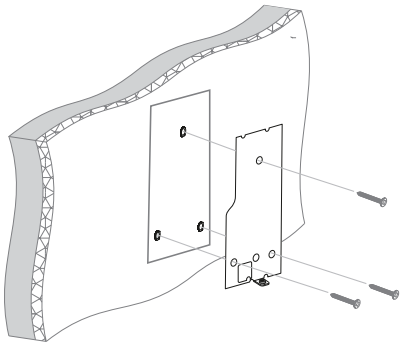
5 Drill three holes for the anchors.



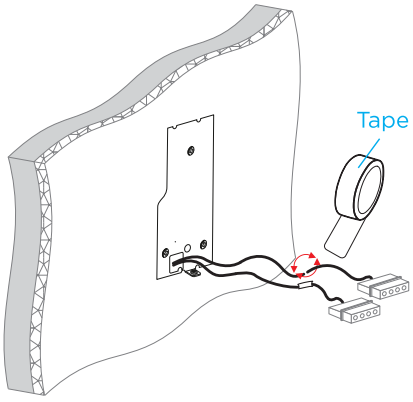
6 Install three anchors into the drilled holes.



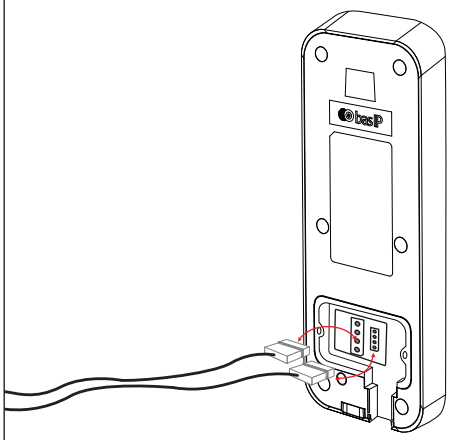
7 Fix surface mounting bracket on the wall using three screws.



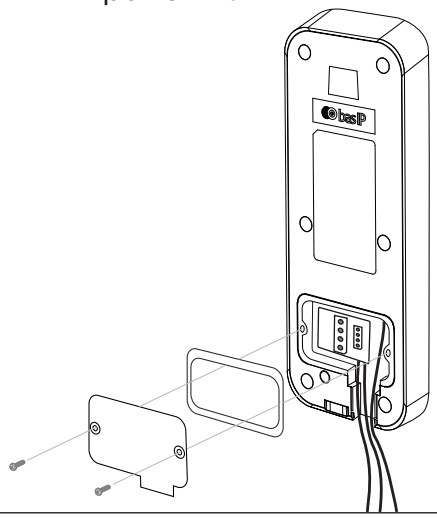
8 Connect all the necessary cables from the wall to the connectors from the panel kit and isolate them using tape.



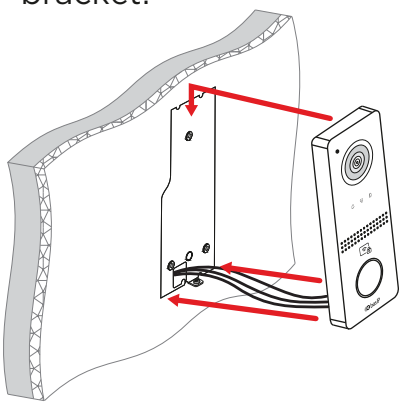
9 Join all the connectors to the outdoor panel.



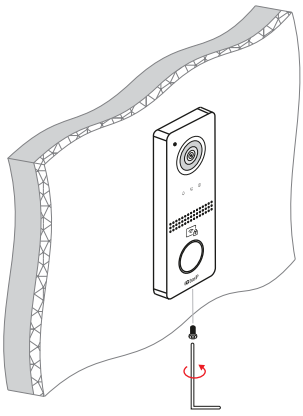
10 Install sealing gasket and water protection cover on the back of the outdoor panel and fix it using two screws from the panel kit.



11 Install the outdoor panel on the surface mounting bracket while carefully laying all the wires back inside the wall. Avoid squeezing the wires between the panel back and surface mounting bracket!



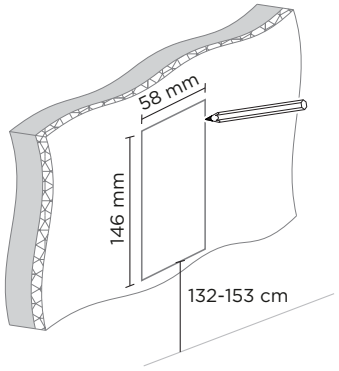
12 Fix the outdoor panel on the surface mounting bracket using the screw from the bottom side.



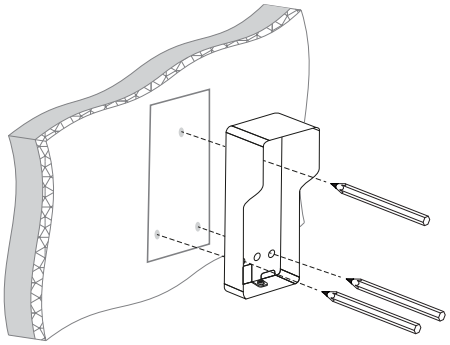
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Surface installation process with rain cover bracket

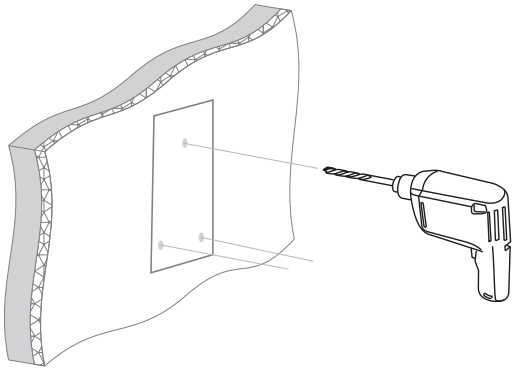
1 Draw a rectangle on the wall with specified dimensions.



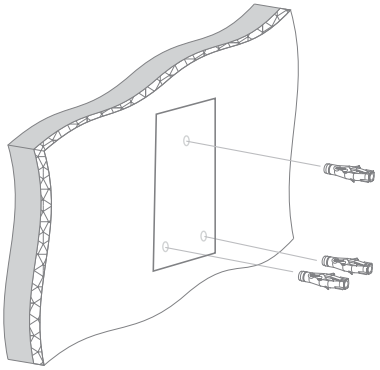
2 Place the rain cover bracket against the rectangle. Mark the holes for the anchors.



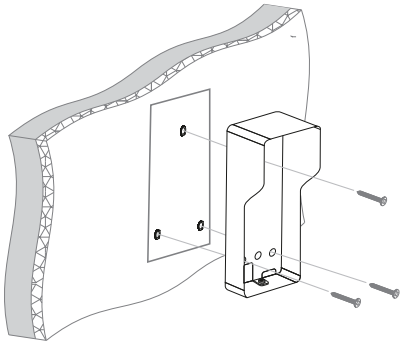
3 Drill three holes for the anchors.



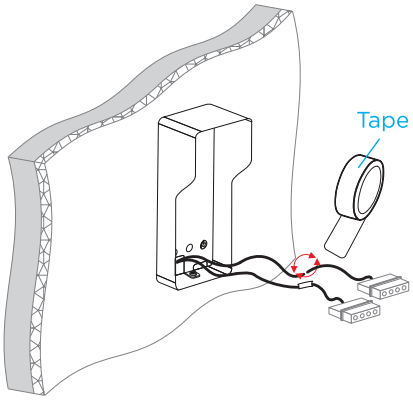
4 Install three anchors into the drilled holes.



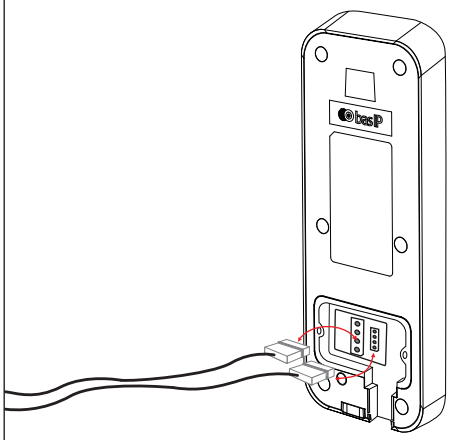
5 Fix the rain cover bracket on the wall using three screws.



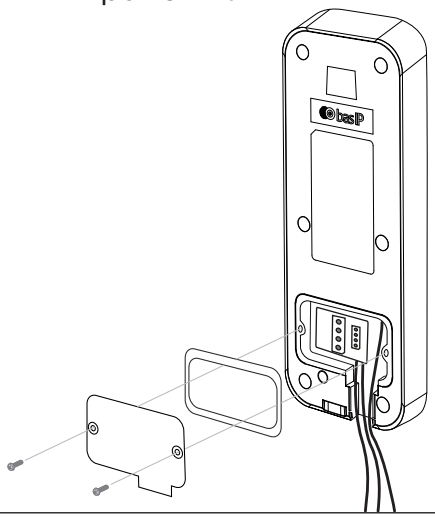
6 Connect all the necessary cables from the wall to the connectors from the panel kit and isolate them using tape.



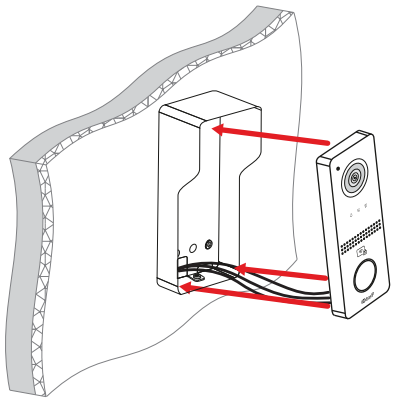
7 Join all the connectors to the outdoor panel.



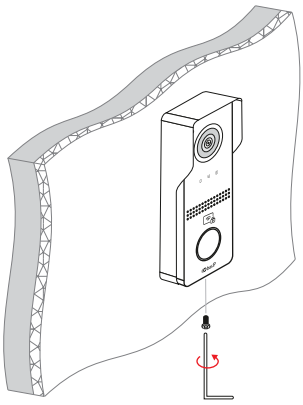
8 Install sealing gasket and water protection cover on the back of the outdoor panel and fix it using two screws from the panel kit.



9 Install the outdoor panel inside the rain cover bracket while carefully laying all the wires back inside the wall. Avoid squeezing the wires between the panel back and rain cover bracket!



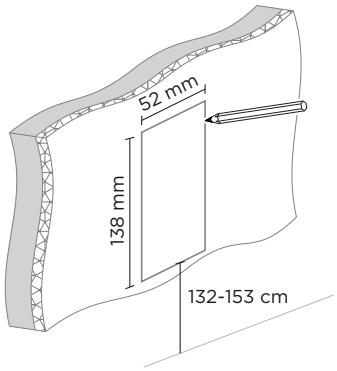
10 Fix the outdoor panel inside the rain cover bracket using the screw from the bottom side.



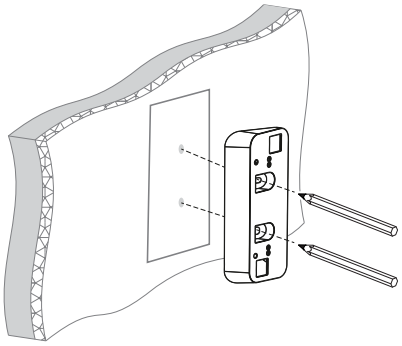
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Surface installation process with angle bracket (sold separately)

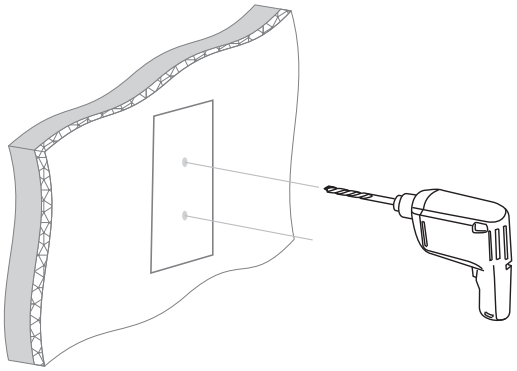
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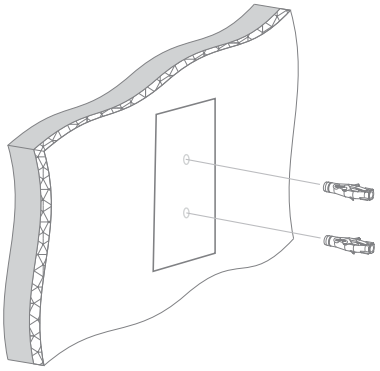
2 Place the angle bracket against the rectangle. Mark the holes for the anchors.



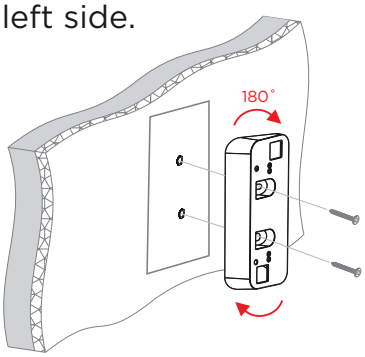
3 Drill two holes for the anchors.



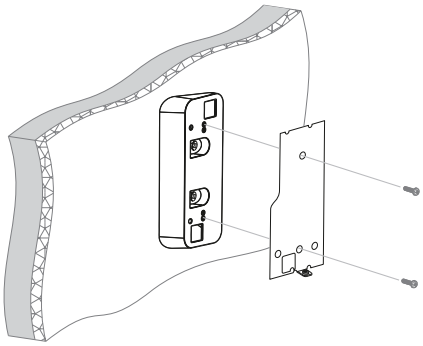
4 Install two anchors into the drilled holes.



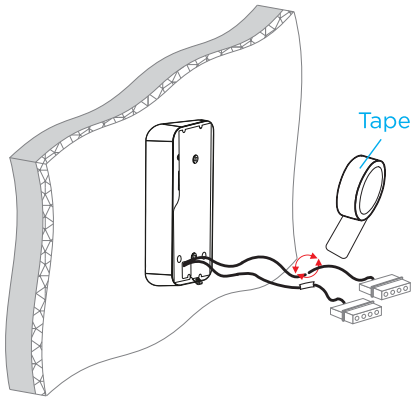
5 Fix angle mounting bracket on the wall using two screws. You can rotate the bracket 180˚ to turn the panel direction right or left side.



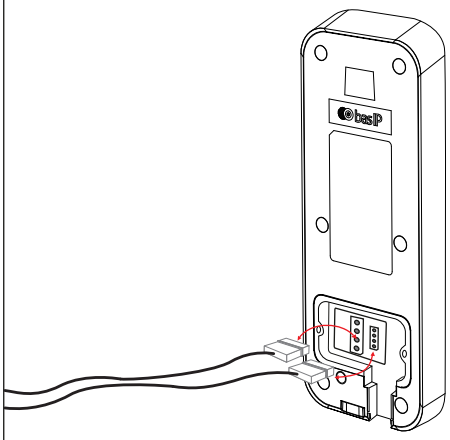
6 Fix surface mounting bracket on the angle bracket using two screws from the kit.



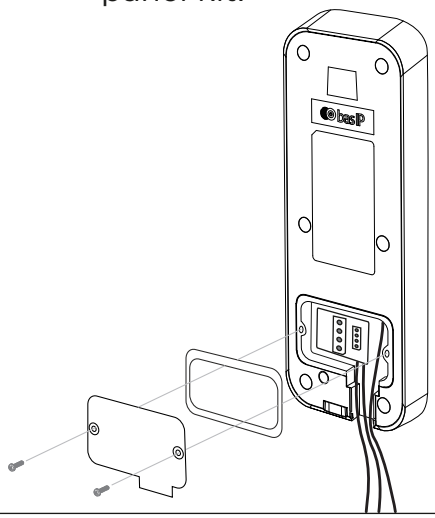
7 Connect all the necessary cables from the wall to the connectors from the panel kit and isolate them using tape.



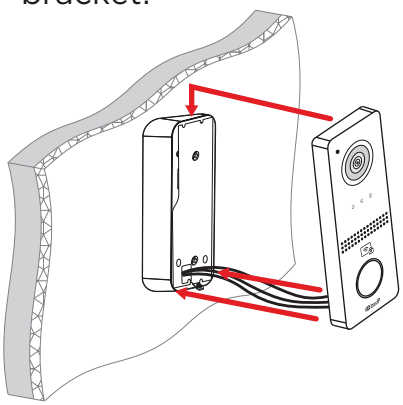
8 Join all the connectors to the outdoor panel.



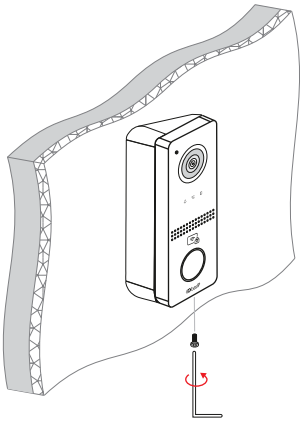
9 Install sealing gasket and water protection cover on the back of the outdoor panel and fix it using two screws from the panel kit.



10 Install the outdoor panel on the surface mounting bracket while carefully laying all the wires back inside the wall. Avoid squeezing the wires between the panel back and surface mounting bracket!



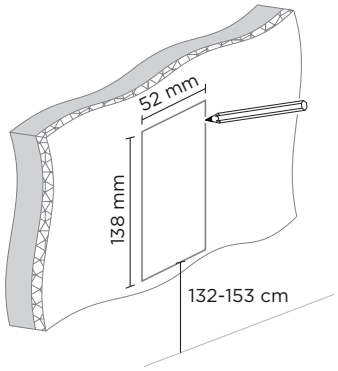
11 Fix the outdoor panel on the surface mounting bracket using the screw from the bottom side.



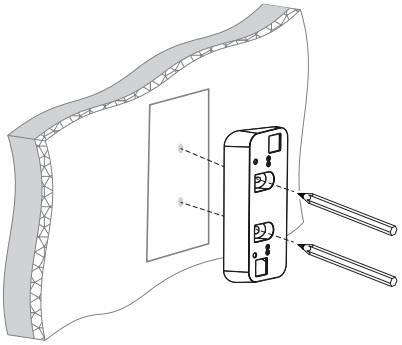
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Surface installation process with angle bracket and rain cover

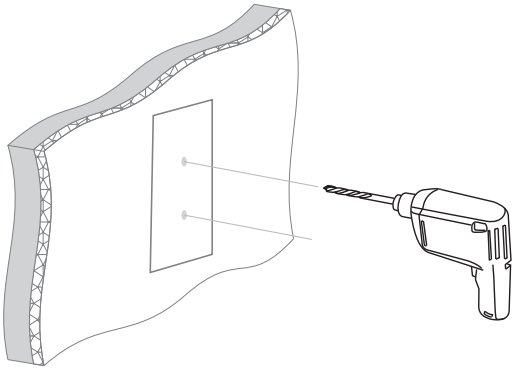
1 Draw a rectangle on the wall with specified dimensions.



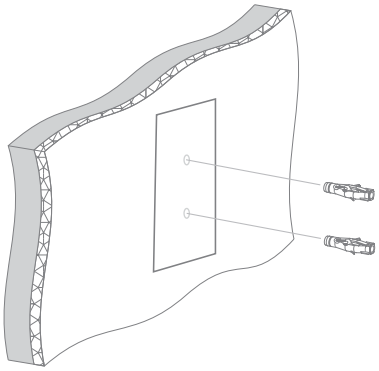
2 Place the angle bracket against the rectangle. Mark the holes for the anchors.



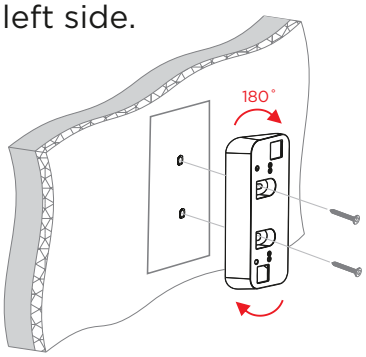
3 Drill two holes for the anchors.



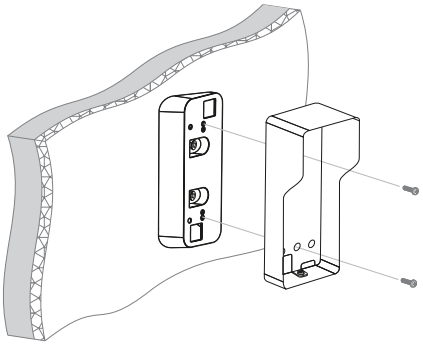
4 Install two anchors into the drilled holes.



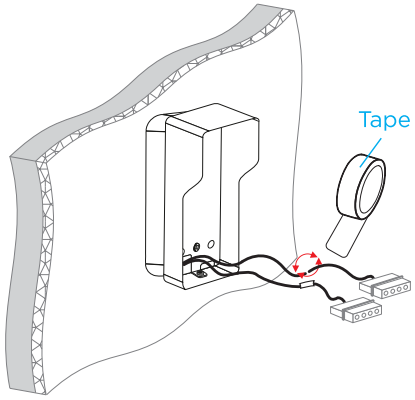
5 Fix angle mounting bracket on the wall using two screws. You can rotate the bracket 180˚ to turn the panel direction right or left side.



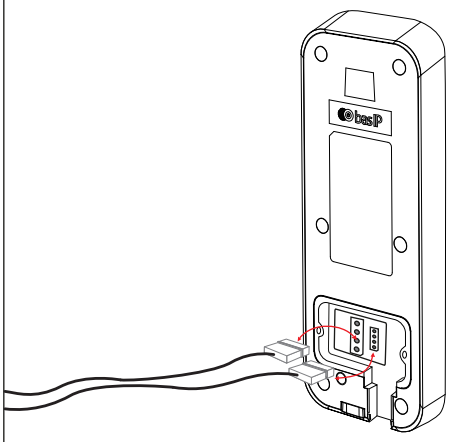
6 Fix rain cover bracket on the angle bracket using two screws from the kit.



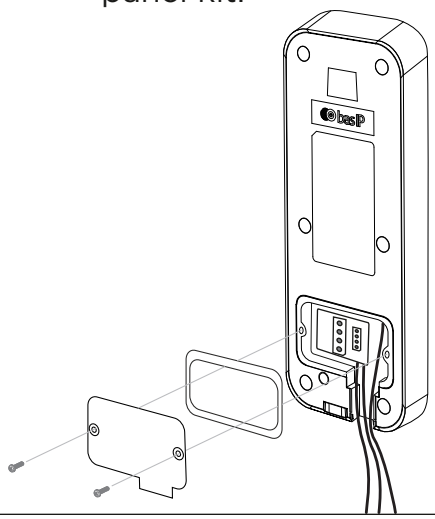
7 Connect all the necessary cables from the wall to the connectors from the panel kit and isolate them using tape.



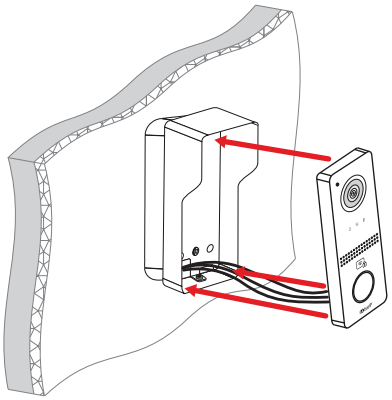
8 Join all the connectors to the outdoor panel.



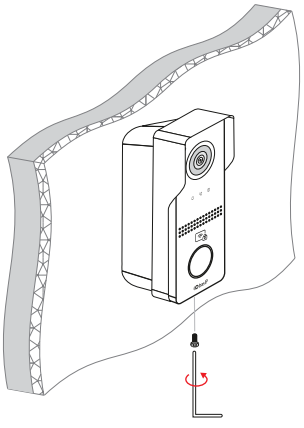
9 Install sealing gasket and water protection cover on the back of the outdoor panel and fix it using two screws from the panel kit.



10 Install the outdoor panel inside the rain cover bracket while carefully laying all the wires back inside the wall. Avoid squeezing the wires between the panel back and rain cover bracket!



11 Fix the outdoor panel inside the rain cover bracket using the screw from the bottom side.



Warranty

The warranty card number _____
Model name _____
Serial number _____
Seller name _____

With following stated terms of warranty is familiar, functional test was performed in my presence:

Customer signature _____

Warranty conditions

The warranty period of the product — 36 (thirty six) months from the date of sale.

- Transportation of product must be in its original packaging or supplied one by the seller.
- The product is accepted in warranty repair only with a properly filled warranty card and the presence of intact stickers or labels.
- The product is accepted for examination in accordance with the cases provided by law, only in the original packaging, in a full complete set, appearance corresponding to the new equipment and presence of all relevant properly filled documents.
- This warranty is in addition to the constitutional and other consumer rights and in no way restrict them.

Terms of warranty

- The warranty card must indicate the name of the model, serial number, purchase date, name of the seller, seller company stamp and the customer's signature.
- Delivery to the warranty repair is carried out by the buyer himself.
- Warranty repairs carried out only during the warranty period specified in the warranty card.
- The service center is committed to do everything possible to carry out the repair warranty products, up to 24 working days. The period spent on the restoration of product functionality is added to the warranty period.

Regulatory Information

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

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.

Note! Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

EU Conformity Statement

This product is marked with «CE» and comply therefore with the applicable harmonized European standards listed under the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points.

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Notes

Notes

Version 2.0 (2026-03)



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