basIP

USER MANUAL

AA-07BDI



ENTRANCE PANEL

basIP



Main features

- **Display:** 4.3” TFT, color with backlight.
- **Camera:** 1/4” sensor.
- **Resolution:** 2 Mpx.
- **Camera angle:** 110° (horizontal).
- **Output video:** HD (1280 × 720), H.264 Main Profile.
- **Night backlight:** 6 LEDs.
- **Light sensitivity:** 0.01 LuX.
- **Protection class:** IP65.
- **IK-Code:** IK07.
- **Output for connecting an external induction loop for the hearing impaired:** Low-frequency Audio signal 1.2V; 8.2 kOhm
- **Type of output for connecting an external induction loop:** Socket (female) TRS
- **Working temperature:** -40 — +65 °C.
- **Power consumption:** 6.5 W, in standby — 3.6 W.
- **Power supply:** +12 V DC and PoE IEEE802.3af.
- **Body:** Aluminum alloy.
- **Size of the panel:** 155 × 375 × 55 mm.
- **Installation:** Flush mounting; Surface mounting with BR-AA7C outdoor bracket (optional).

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

ENTRANCE PANEL

AA-07BDI

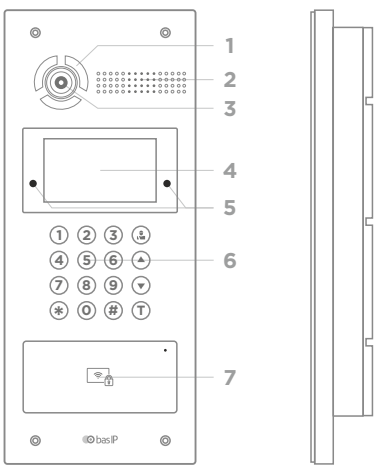
Full User Manual

Device description

AA-07BDI SILVER is a multi-apartment panel featuring a 4.3" TFT display, a 16-button backlit mechanical keypad, and multi-format reader with UKEY support, making it an excellent choice for apartment complexes, office buildings, and gated communities.

A standout feature of this model is the female TRS socket for connecting an external induction loop, enhancing accessibility for users with hearing impairments. The panel supports both 12 V DC and PoE (IEEE 802.3af) power options, ensuring flexible and simplified installation across various environments.

Appearance



1 - Backlight.
2 - Loudspeaker.
3 - Camera.
4 - 4.3” Display.
5 - Proximity sensors.
6 - Keypad.
7 - Reader.

EAN: 5060514911723 (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
Flush mounting bracket	1 pc
User manual	1 pc
Wiring set with connectors (for power, lock, and additional modules)	1 pc
Set of sealing caps	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 PoE network switch or regular 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 or PoE switch with IEEE802.3af standard.
- Wires must be connected to connect the door sensor, the exit button and the two locks control module (optional).

Electromagnetic lock connection
If AA-07BDI outdoor panel uses third party power supply and doesn't have UPS-BAS-IP then avoid using AA-07BDI internal relay for direct electromagnetic lock connection. In this case electromagnetic lock must be connected through the SH-42.2 - SH-42.8.

Diagram 1. Electromagnetic lock connection scheme using uninterruptible power supply UPS-BAS-IP.

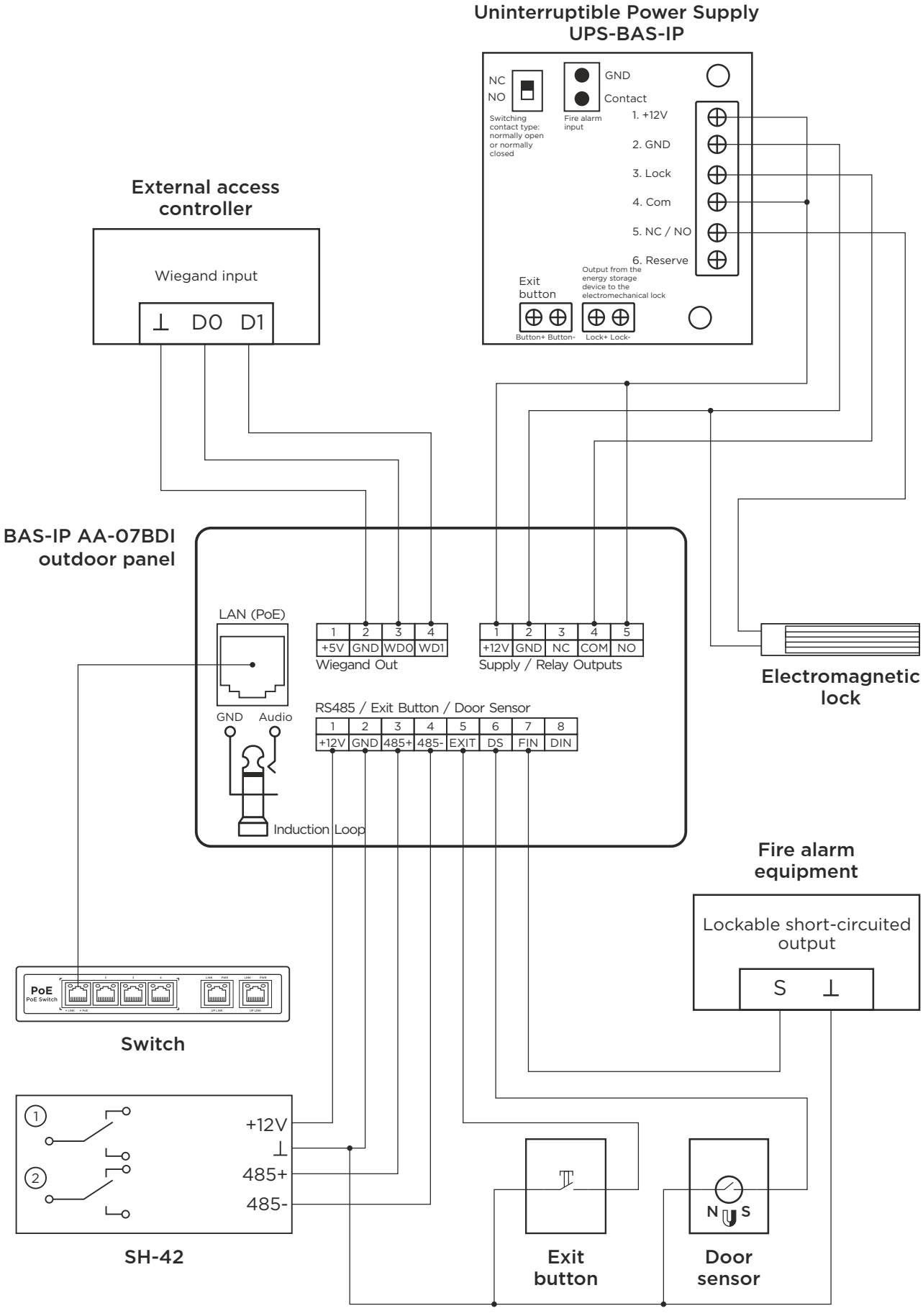


Diagram 2. Electromechanical lock connection scheme
using uninterruptible power supply UPS-BAS-IP.

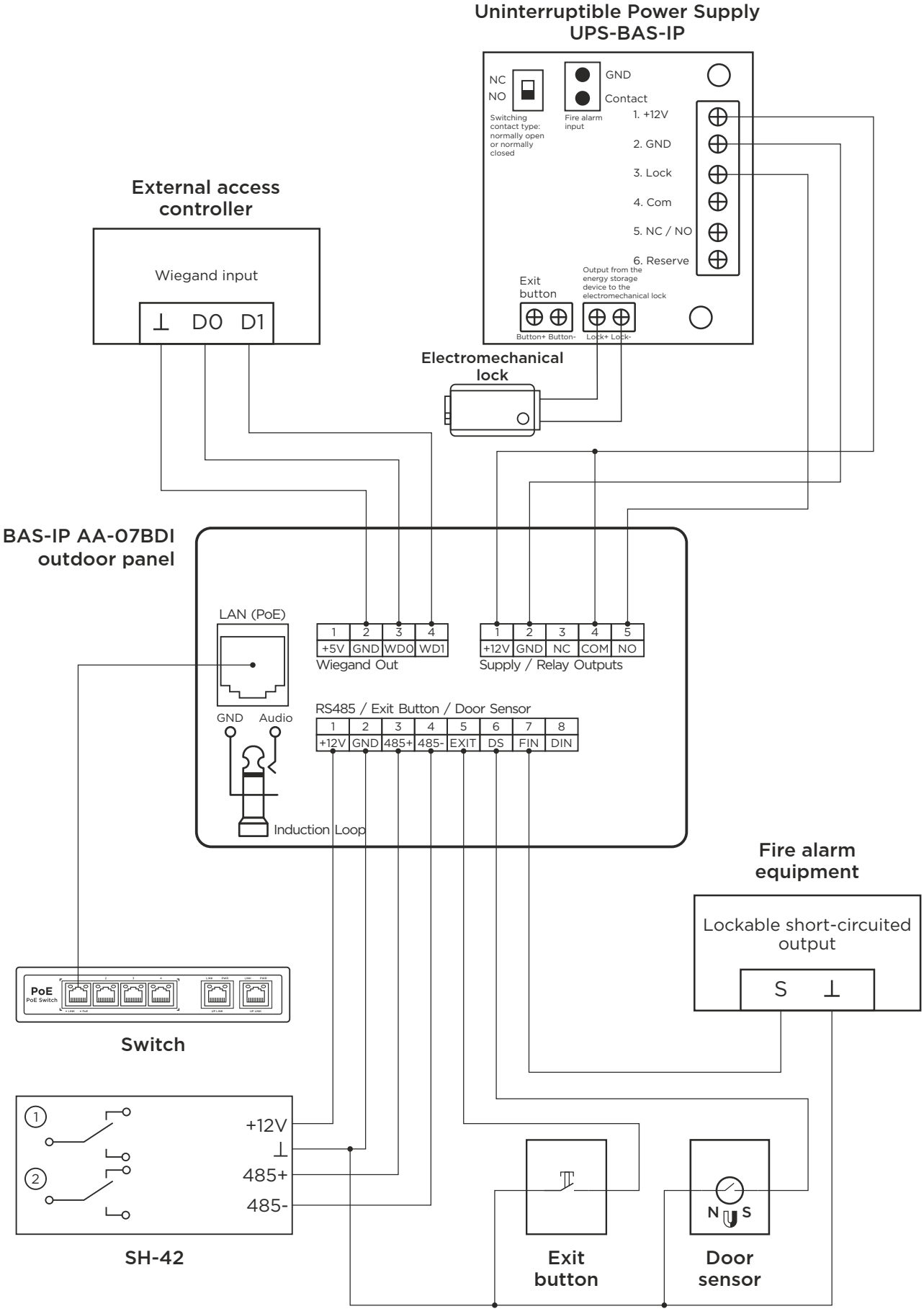


Diagram 3. Electromechanical lock connection scheme
using third party power supply for the lock.

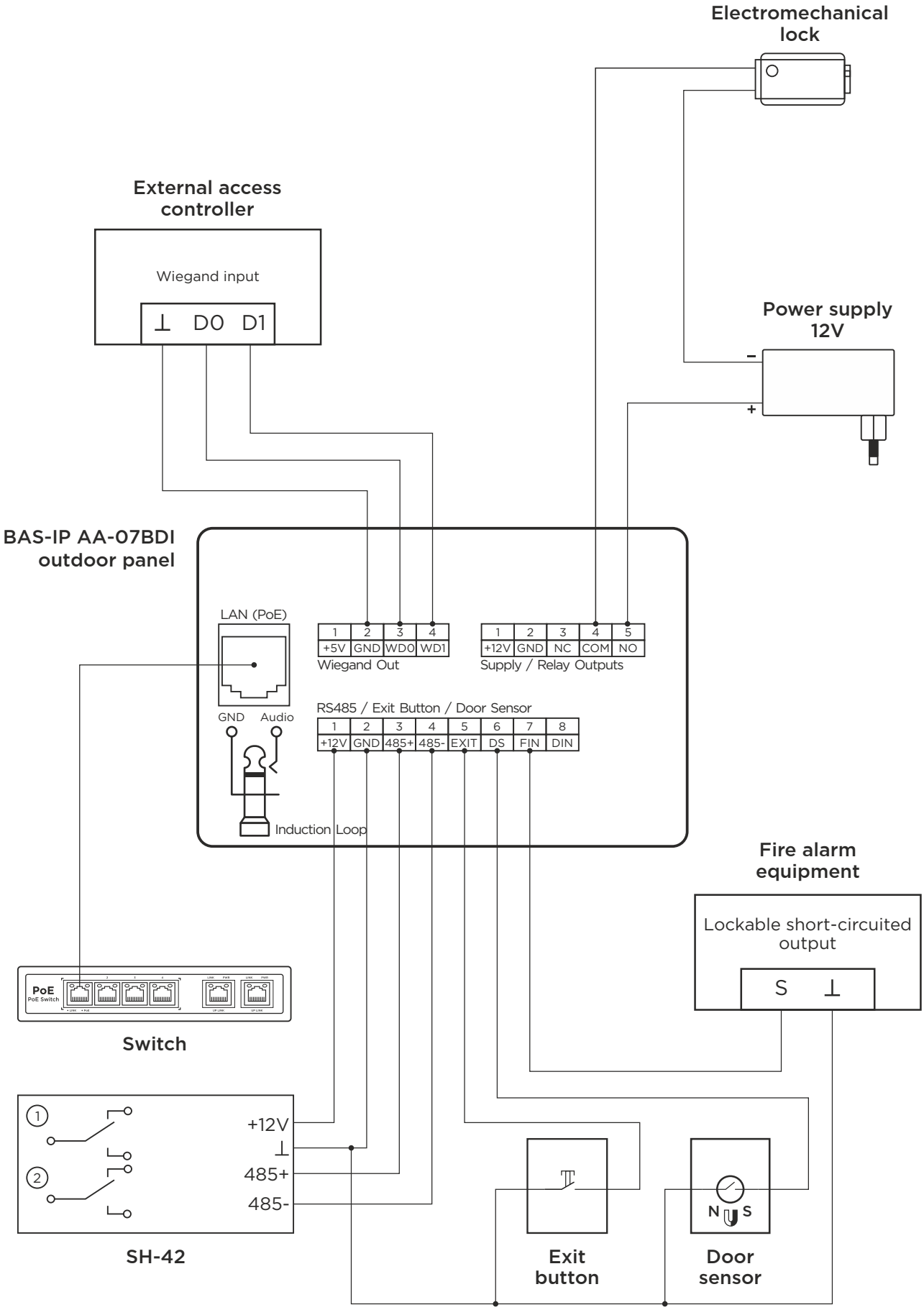


Diagram 4. Electromechanical lock connection scheme using third party power supply for the lock and uninterruptible power supply UPS-BAS-IP for the outdoor multi-appartment panel.

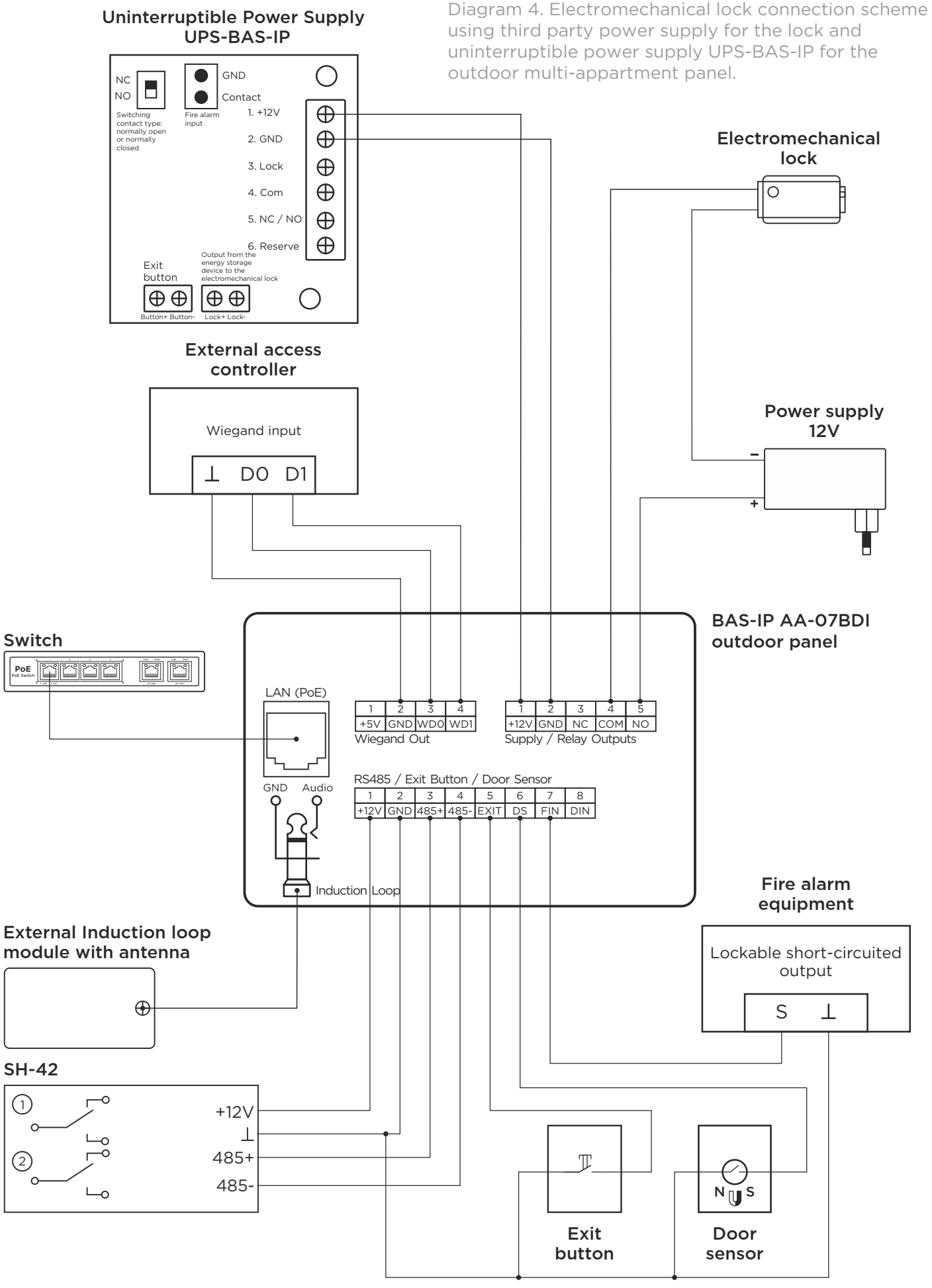


Diagram 5. Wiring diagram for SH-42.2 with two electromechanical locks, each powered by its own separate power supply.

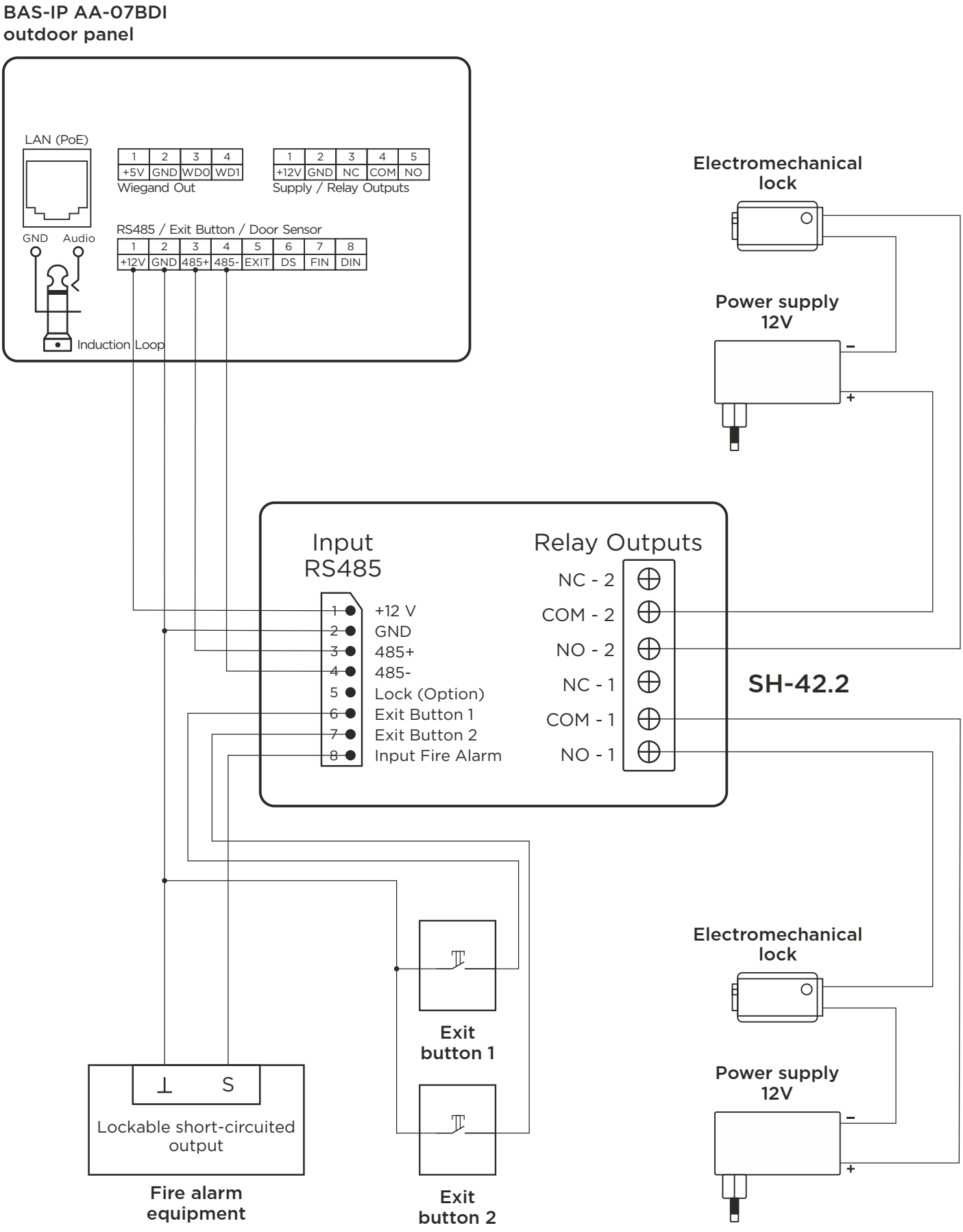


Diagram 6. Wiring diagram for SH-42.2 with two electromagnetic locks, each powered by its own separate power supply.

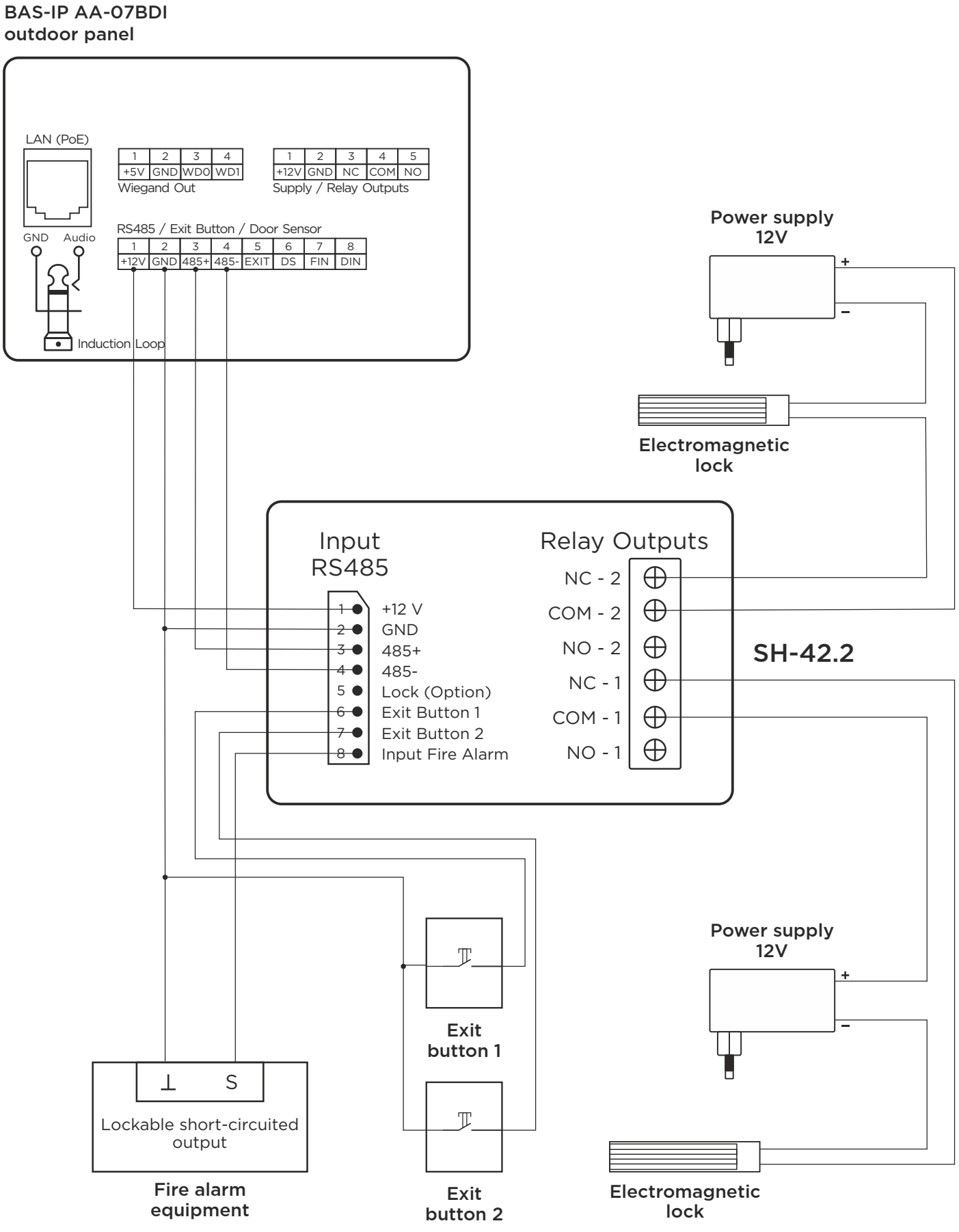


Diagram 7. Wiring diagram for SH-42.2 using the «Lock» input and an electromechanical lock powered by its own separate power supply.

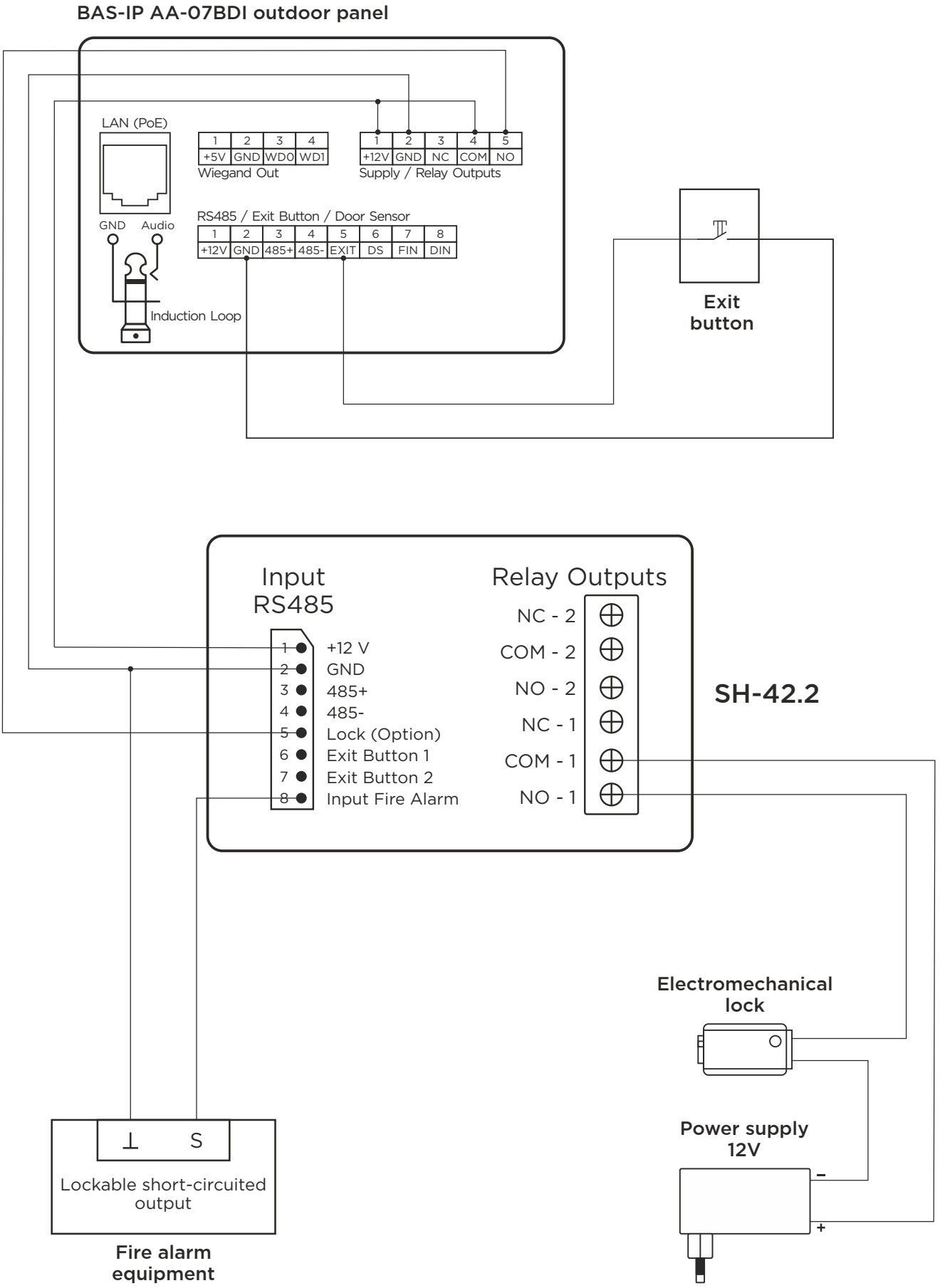
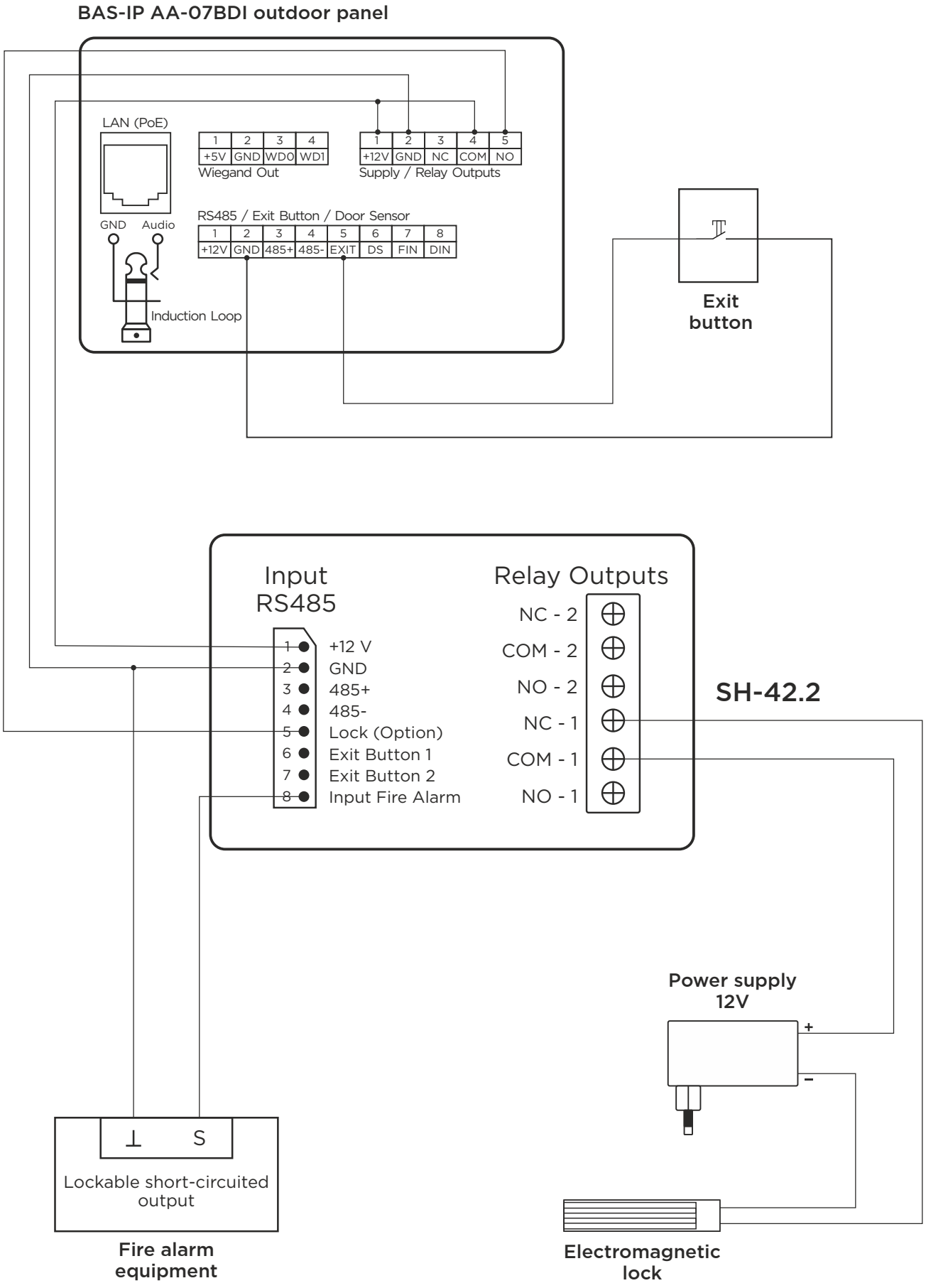
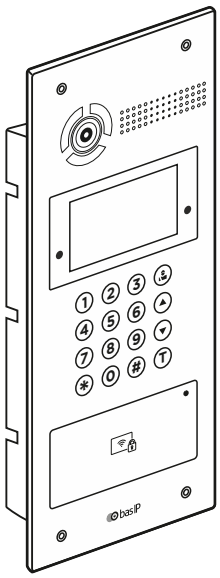


Diagram 8. Wiring diagram for SH-42.2 using the «Lock» input and an electromagnetic lock powered by its own separate power supply.



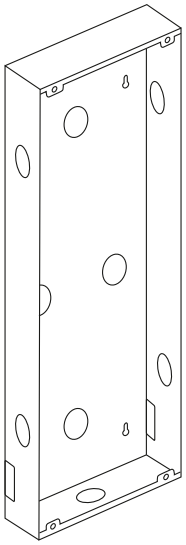
Flush installation process

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



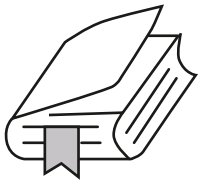
AA-07BDI outdoor panel

x1



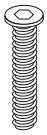
flush mounting bracket

x1



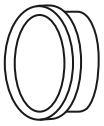
user manual

x1



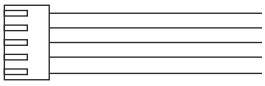
set of screws

x1



sealing cap

x1

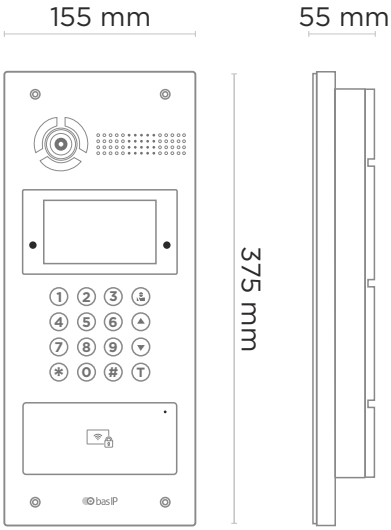


x1

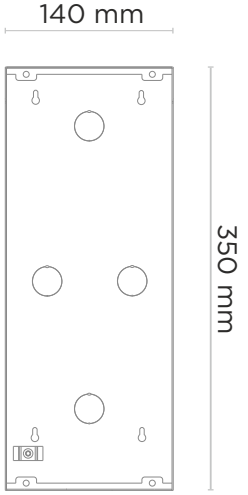
set of wires with connectors

2 Verify all the diamensions of the flush mounting bracket and the outdoor panel 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 the panel installation.

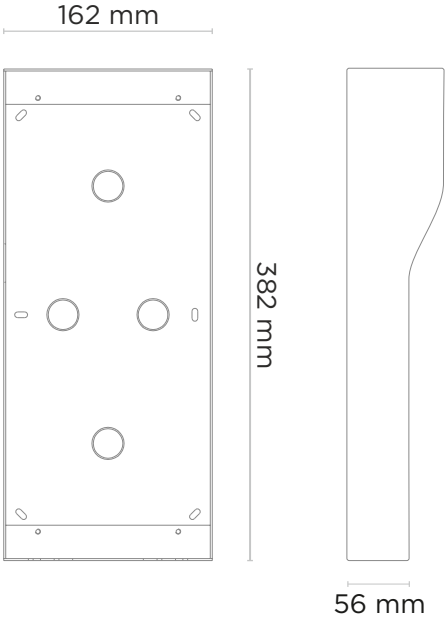
Outdoor Panel



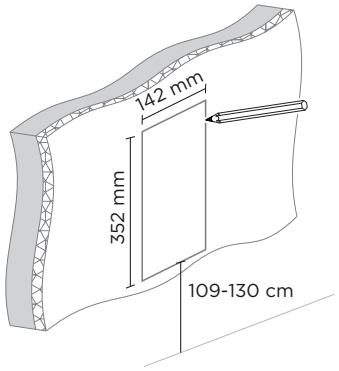
Flush bracket



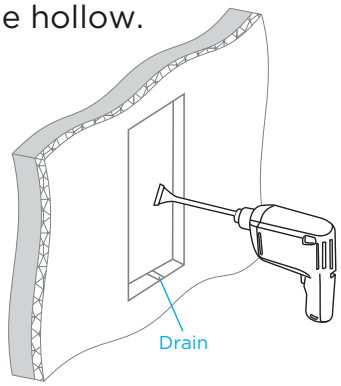
Rain Cover (BR-AA7C) (sold separately)



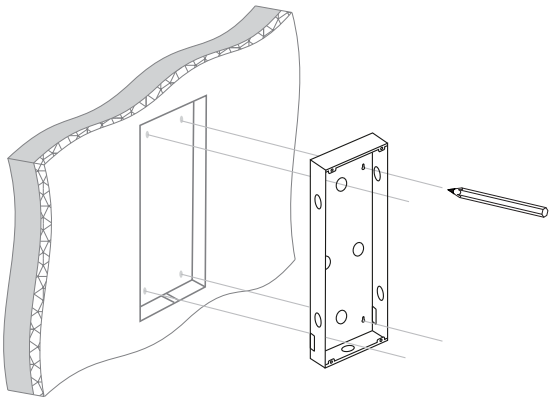
3 Draw a rectangle on the wall with specified dimensions.



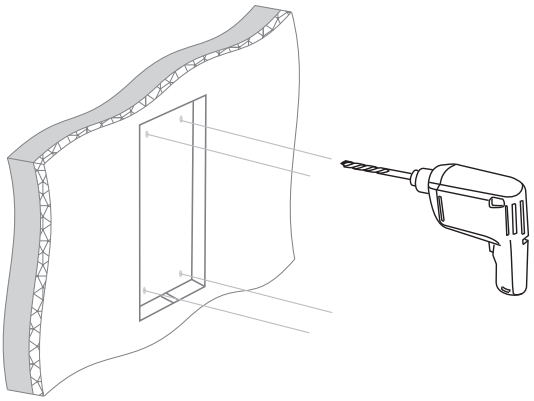
4 Create the hollow in the wall 61 mm depth for the flush mounting box. Also create the drain for the water on the bottom of the hollow.



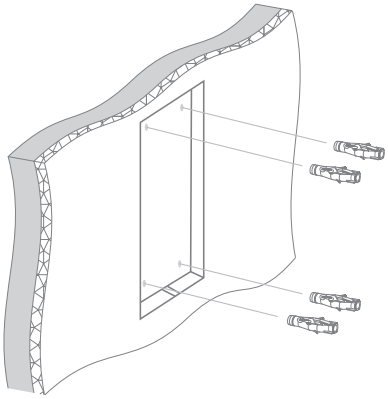
5 Put the flush mounting box into the hollow and mark four holes for the fixing anchors.



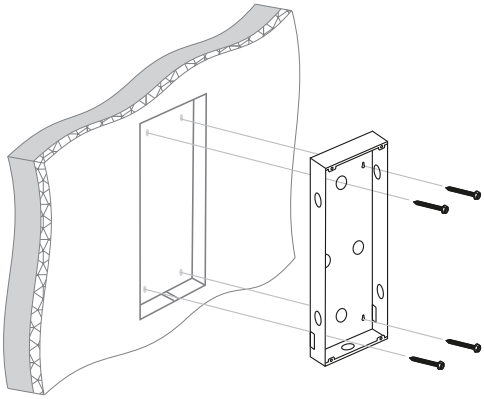
6 Drill four holes for the anchors inside the hollow.



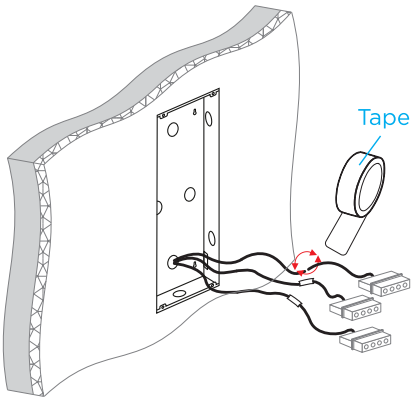
7 Install the anchors inside the drilled holes.



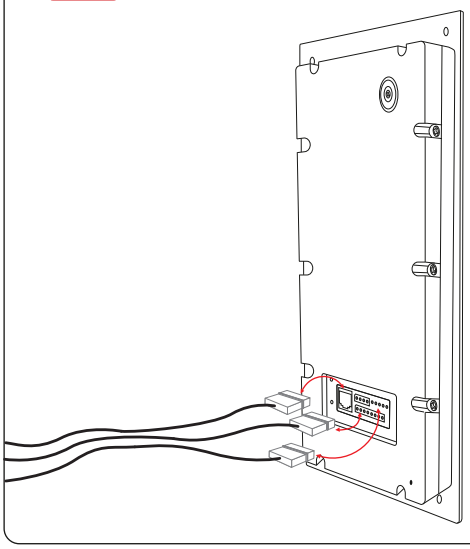
8 Fix the flush mounting box inside the hollow using screws.
Attention: do not close the water drain on the bottom while fixing the flush box!



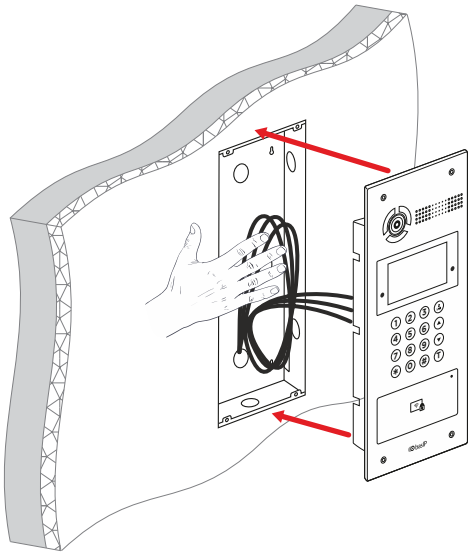
9 Connect all the necessary cables from the flush box to the connectors from the panel kit and isolate them using tape.

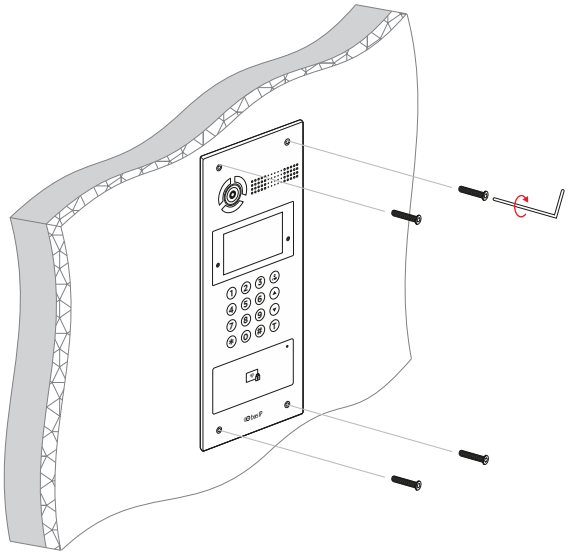


10 Join all the connectors to the outdoor panel.



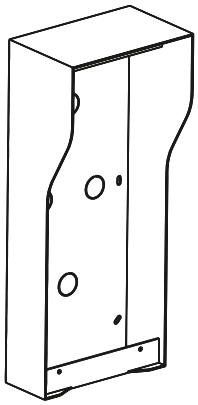
11 Install the outdoor panel into the flush mounting box while carefully laying all the wires inside it. Avoid squeezing the wires between the panel back and metallic parts of the flush box. Fix the outdoor panel using four screws and the wrench from the panel kit.





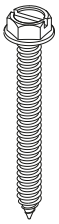
Surface installation process with BR-AA7C rain cover (sold separately)

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



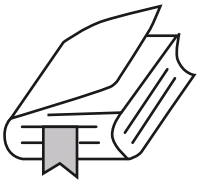
surface mounting box with raincover BR-AA7C

x1



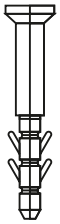
bracket fastening screws

x6



user manual

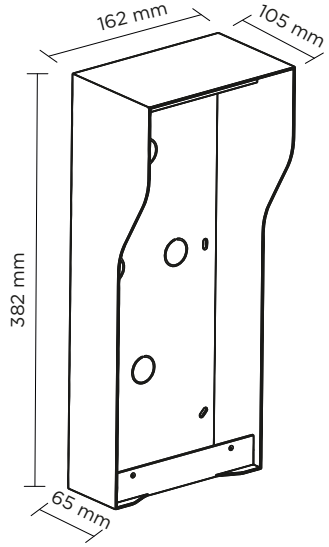
x1

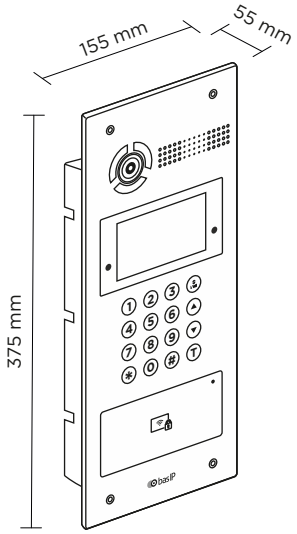


bracket fastening anchors

x6

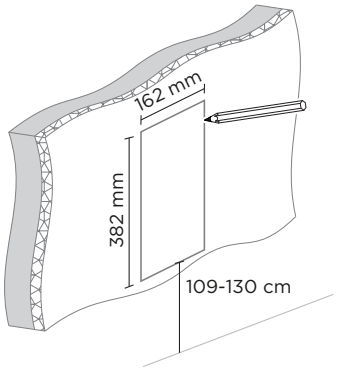
2 Verify all the diamensions of the rain cover and the outdoor panel to suit intentional place of installation.



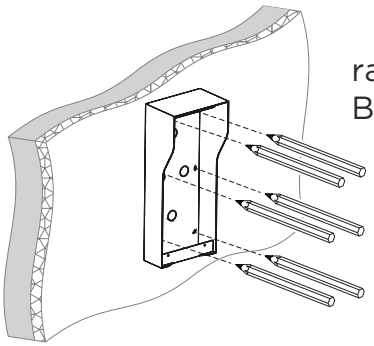


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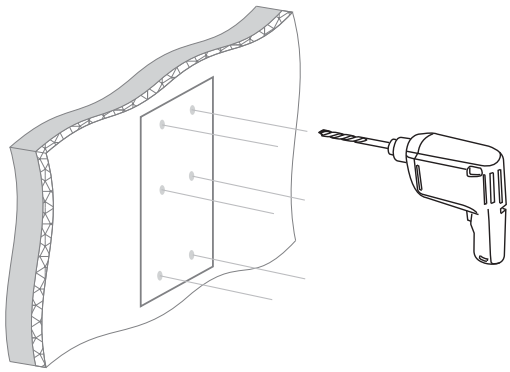
3 Draw a rectangle on the wall according to the dimensions mentioned below.



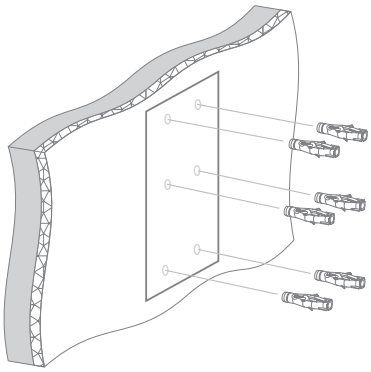
4 Place the rain cover against the rectangle. Mark the holes for the anchors.



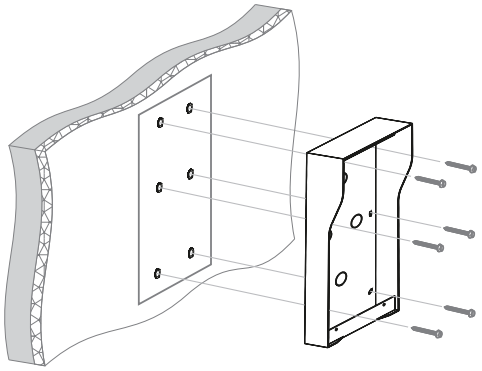
5 Drill six holes for the anchors.



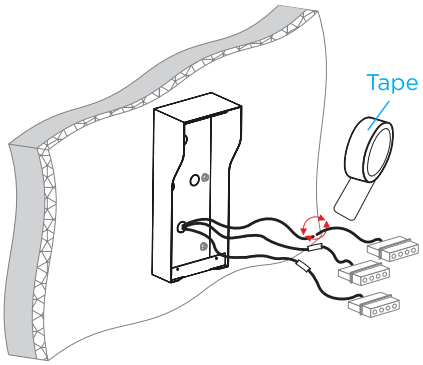
6 Install six anchors into the drilled holes.



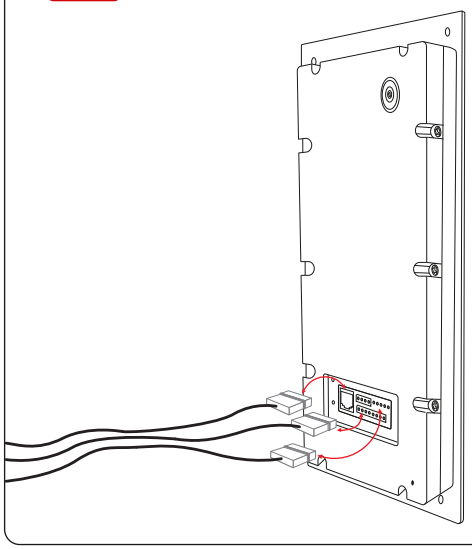
7 Fix surface mounting bracket on the wall using six screws.



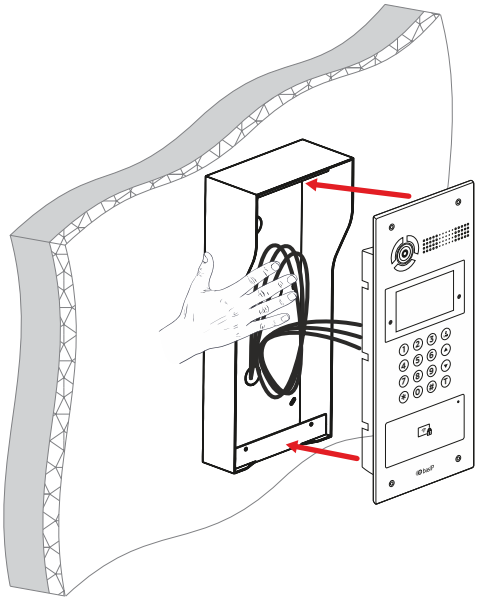
8 Connect all the necessary cables from the wall to the connectors from the panel kit and isolate them using tape.

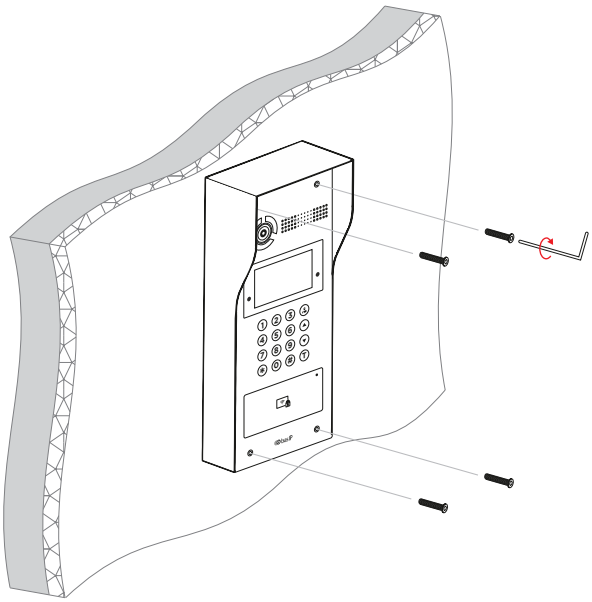


9 Join all the connectors to the outdoor panel.



10 Install the outdoor panel into the surface mounting box while carefully laying all the wires inside it. Use the loop pattern to lay all the excessive wires into the box. Avoid squeezing the wires between the panel back and plastic parts of the surface box.
Fix the outdoor panel using four screws and the wrench from the panel kit.





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.

Notes

Version 2.1 (2026-05)



www.bas-ip.com