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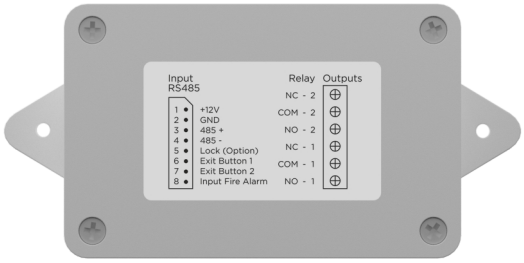
USER MANUAL

THE SH-42 SERIES

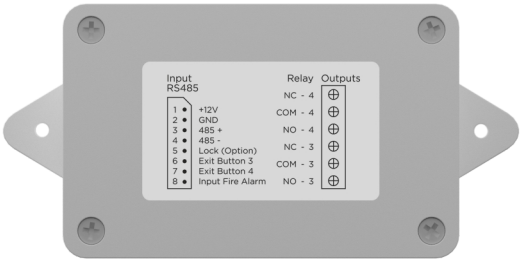
SH-42.2 | SH-42.4 | SH-42.6 | SH-42.8



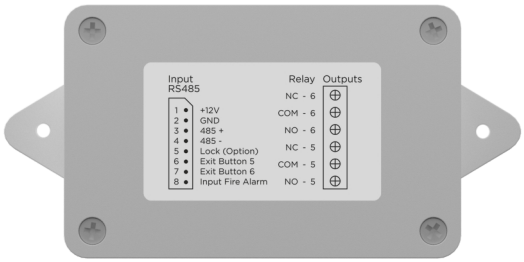
EXPANDABLE LOCK CONTROL MODULES



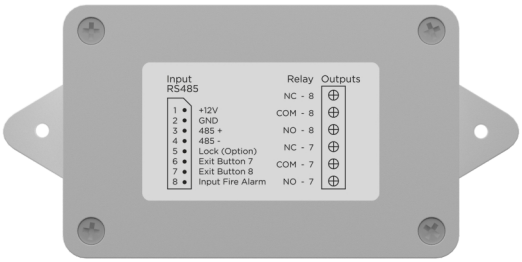
SH-42.2: Controls locks 1 and 2



SH-42.4: Controls locks 3 and 4



SH-42.6: Controls locks 5 and 6



SH-42.8: Controls locks 7 and 8

EXPANDABLE LOCK CONTROL MODULES

THE SH-42 SERIES

Full User Manual
wiki.bas-ip.com

Device description

The SH-42 series provides modular lock control solutions, with each module capable of managing up to two locks.

The lineup includes four distinct modules: SH-42.2, SH-42.4, SH-42.6, SH-42.8 sold separately. Modules can be combined to expand control to 4, 6, or 8 locks, making the system ideal for secure environments that require scalable, flexible configurations.

Technical Specifications (per module):

- Module supply voltage: +12V.
- Power consumption in operating mode: 1W.
- Standby power consumption: 0.06 W.
- Maximum current of connected load: 7A (per channel).
- Maximum constant load voltage: +30V.
- Maximum AC load voltage: ~ 250V.
- Operating temperature: -40 – +75° C.
- Storage temperature: -15 – +65° C.
- Permissible humidity: 20 – 80%.
- Degree of protection: IP30C.
- Overall dimensions: 114.5 × 57.5 × 34 mm.
- Weight: 0.11 kg.

Main feature

- Communication with the call panel via the RS-485 interface.
- Input for low-voltage analog signal control.
- Two built-in relays in each module for managing two locks.
- Compatible with both electromechanical and electromagnetic locks.
- Includes inputs for fire equipment and exit buttons.
- Switchable contact group available on each relay.
- Supports control of up to 8 locks when modules are combined.

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

EAN: 5060514916032 (SH-42.2) EAN: 5060514915059 (SH-42.6)
EAN: 5060514915042 (SH-42.4) EAN: 5060514915066 (SH-42.8)

Completness check of the product

Before installing the module, be sure to check that it is complete and all components are available.

The module kit includes:

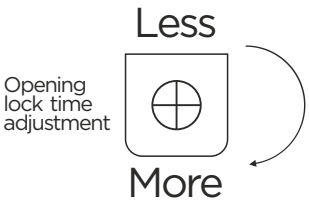
The module (SH-42.2, SH-42.4, SH-42.6 or SH-42.8)	1 pc
Wire (20mm) with connector	1 pc
Manual	1 pc
Installation screws	2 pcs

Relay Outputs

It is possible to connect both electromagnetic and electromechanical locks to the relay outputs. In this case, two relays are independent of each other and allow you to connect two electromagnetic locks or two electromechanical locks. It is also possible to connect to the first relay of an electromechanical lock, and to the second relay of an electro-magnetic lock, and the opposite is allowed to the first relay of an electromagnetic lock, and to the second electromechanical lock.

Opening delay time

The delay module is equipped with a controller, which is responsible for the response time of the relay. This is the time at which the relays will switch from one position to another when the opening signal to them is received via the RS-485 interface, the “Lock” input and the exit buttons are pressed.



The use of electromagnetic locks.

When connecting electromagnetic locks, the controlling resistor needs to be rotated to the right, and adjust the delay time so that it is in the range of 4 to 8 seconds.

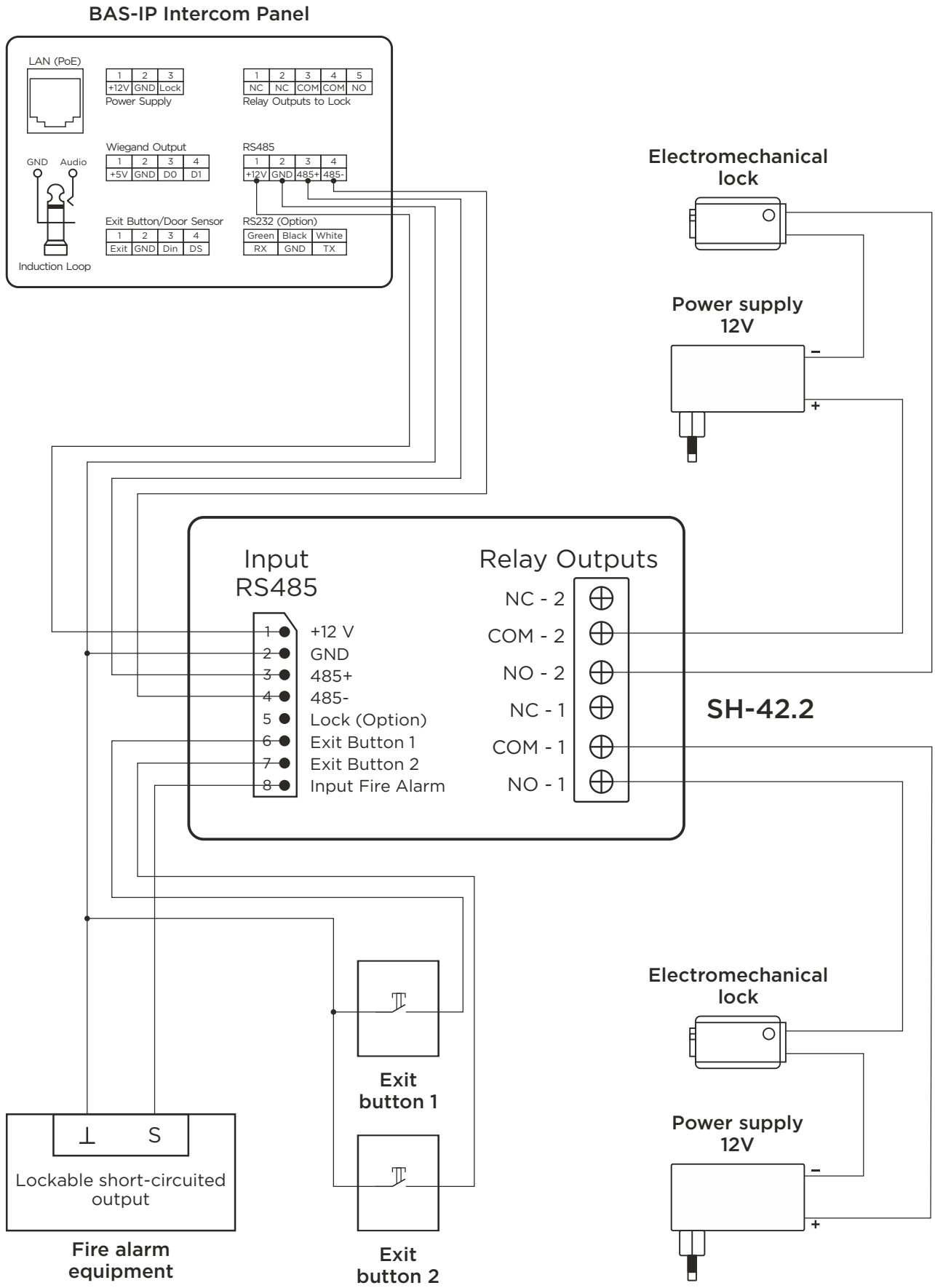
If you need to use other values, this time can set more or less recommended values, but not less than 2 seconds.

The use of electromechanical locks.

When connecting electromechanical locks, the controller must be turned to the left, and the delay time is adjusted so that it is in the range of 0.5 to 1 second.

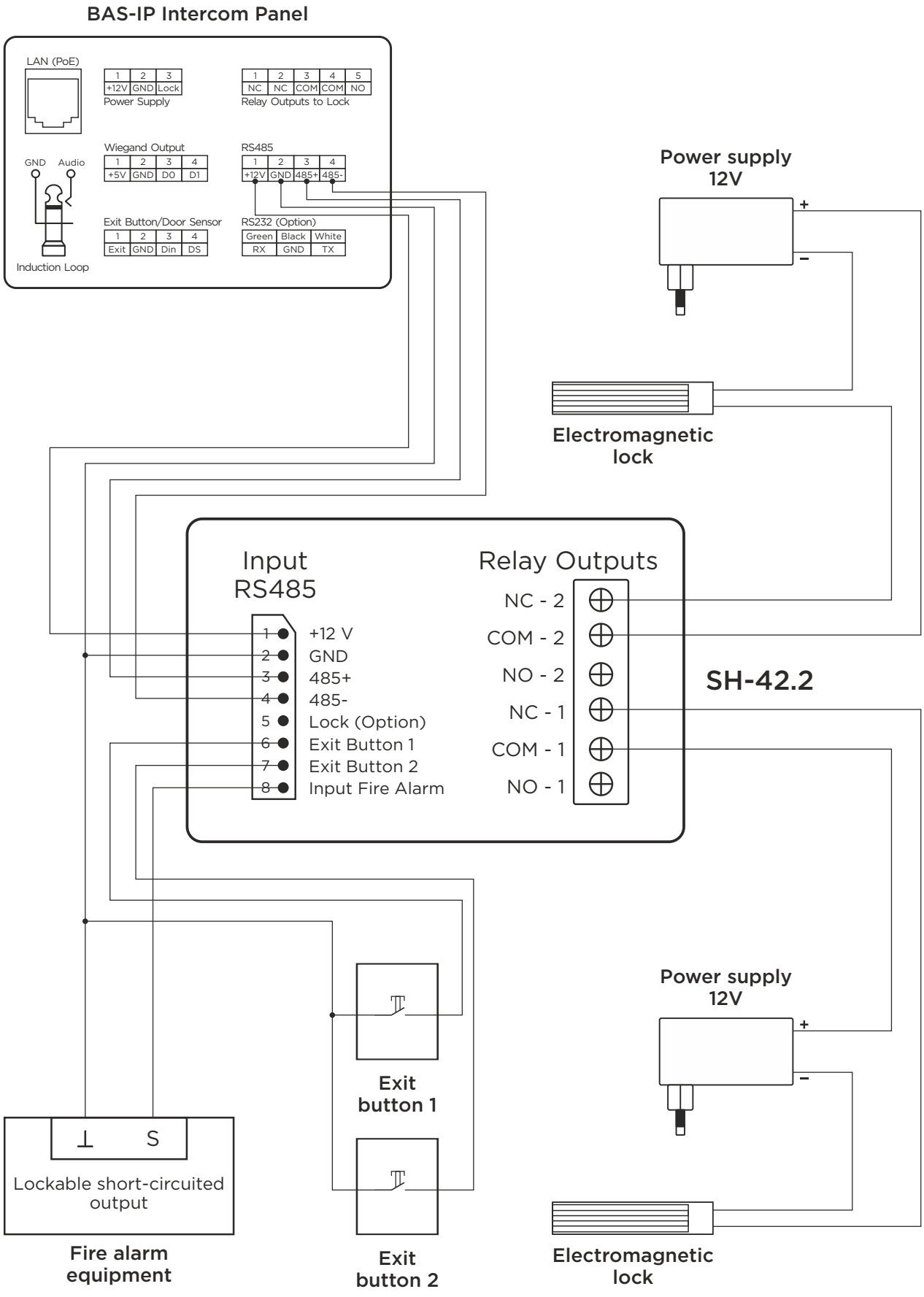
If necessary, the time can be slightly increased, but it is absolutely not recommended to set this time for more than 2 seconds!

If you set a delay time of more than 2 seconds and use electromechanical locks as part of a system, there is a high probability of failure of these locks due to the technological design features of the magnetic coils in these types of locks!



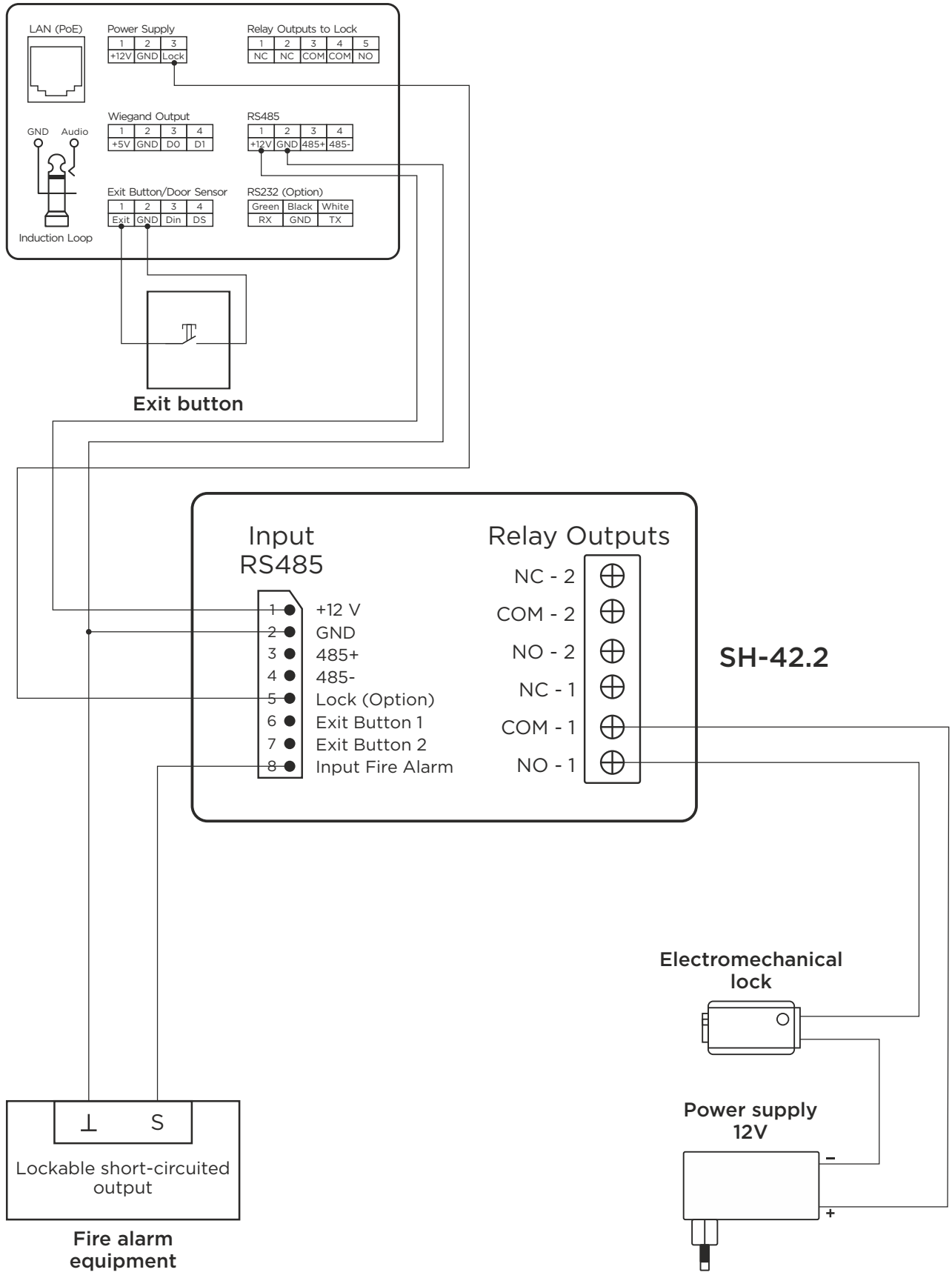
Wiring diagram for SH-42.2 with two electromechanical locks, each powered by its own separate power supply

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EAN: 5060514915042 (SH-42.4) EAN: 5060514915066 (SH-42.8)



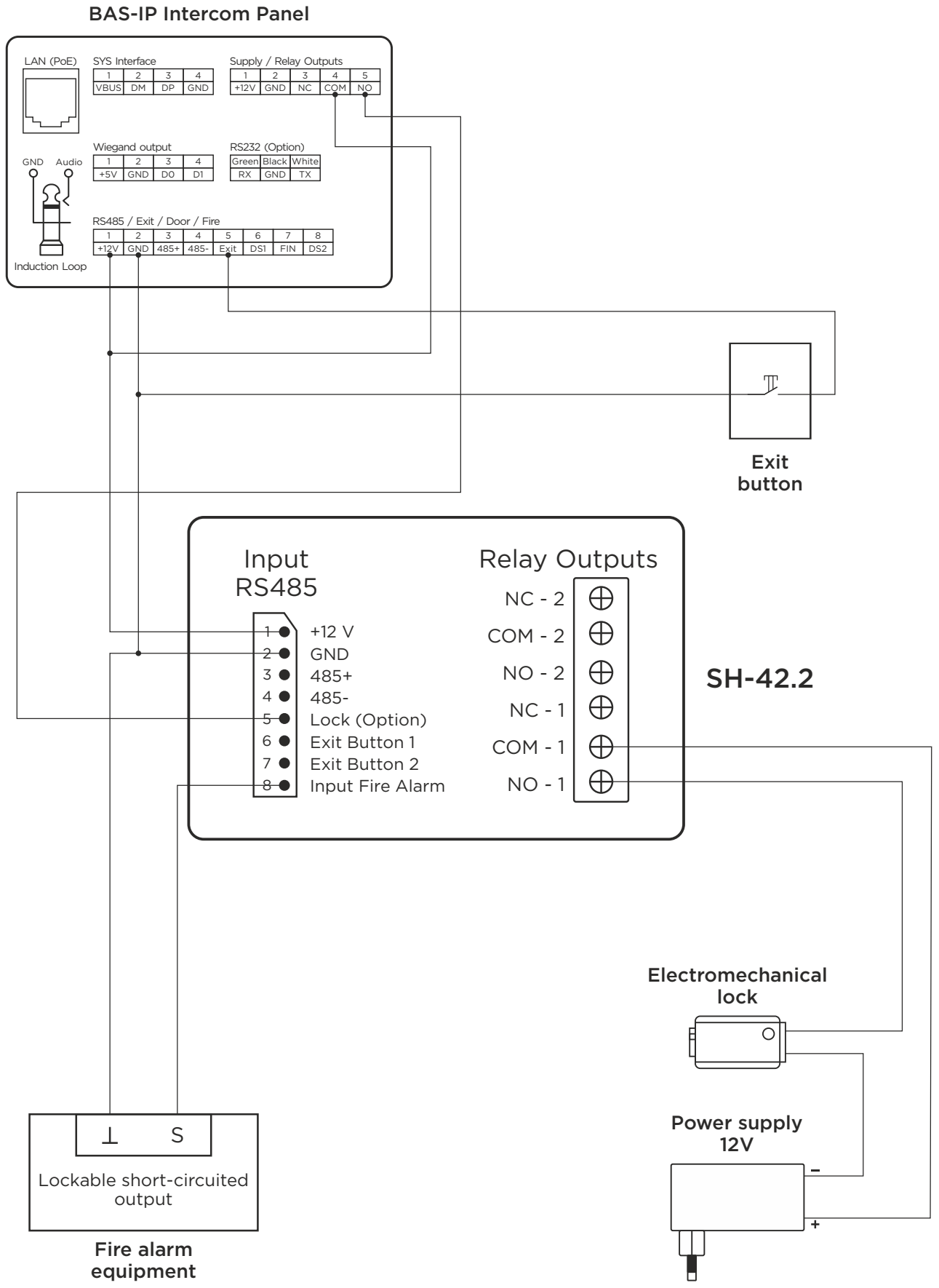
Wiring diagram for SH-42.2 with two electromagnetic locks,
each powered by its own separate power supply

BAS-IP Intercom Panels with Lock
(AA-07FBI/FB/BD, BI-0XFB/FBI, AA-12FB, AA-14FB)



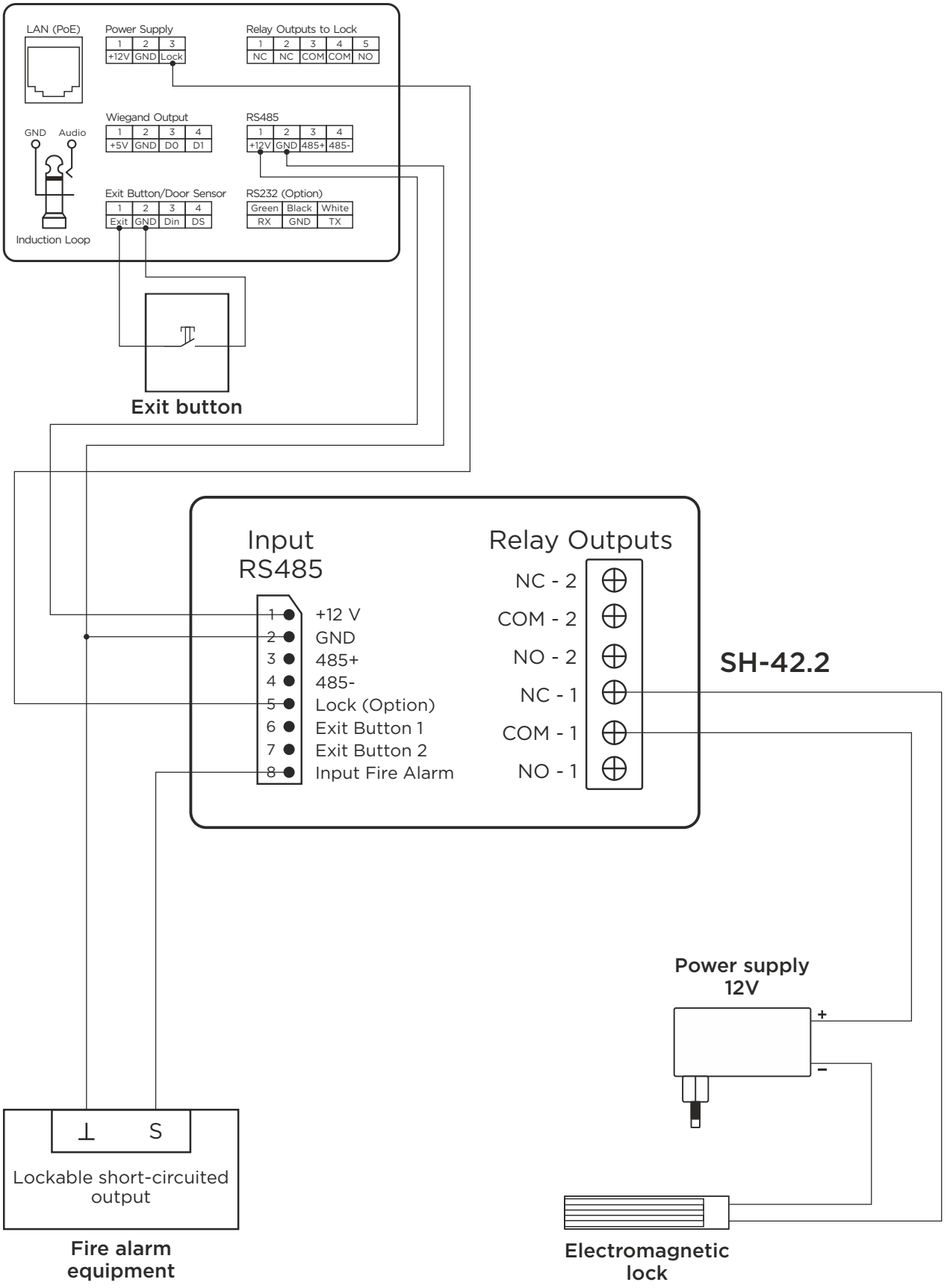
Wiring diagram for SH-42.2 using the «Lock» input
and an electromechanical lock powered by its own separate power supply

EAN: 5060514916032 (SH-42.2) EAN: 5060514915059 (SH-42.6)
EAN: 5060514915042 (SH-42.4) EAN: 5060514915066 (SH-42.8)



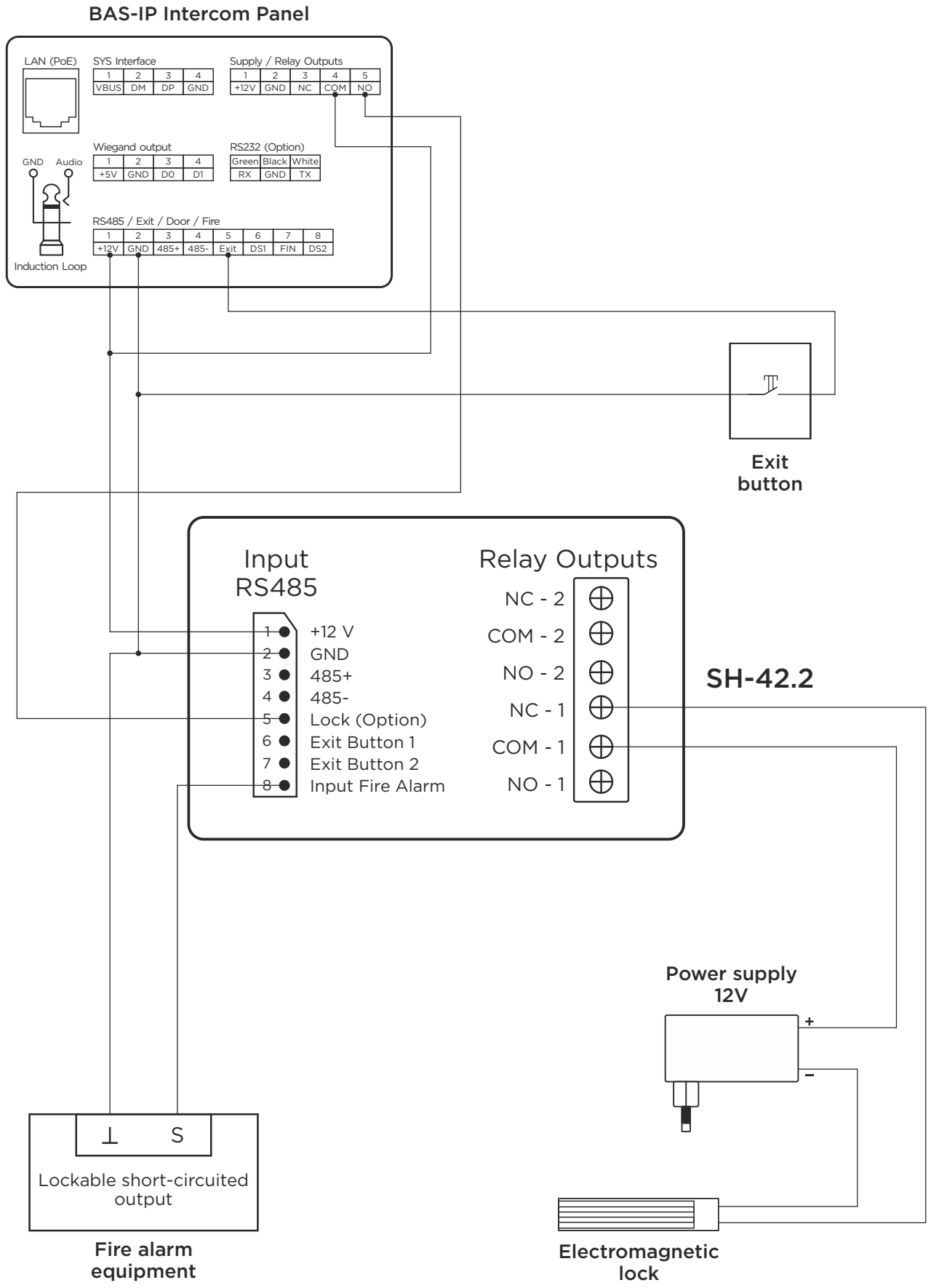
Wiring diagram for SH-42.2 using the «Lock» input
and an electromechanical lock powered by its own separate power supply

BAS-IP Intercom Panels with Lock
(AA-07FBI/FB/BD, BI-0XFB/FBI, AA-12FB, AA-14FB)



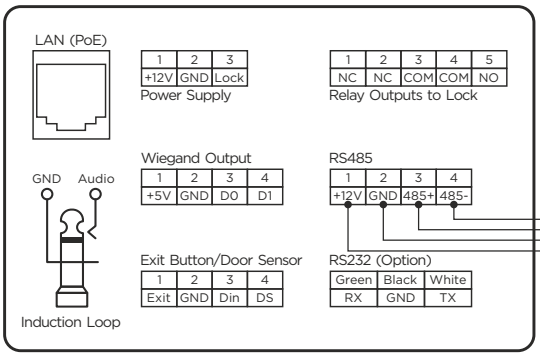
Wiring diagram for SH-42.2 using the «Lock» input
and an electromagnetic lock powered by its own separate power supply

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EAN: 5060514915042 (SH-42.4) EAN: 5060514915066 (SH-42.8)

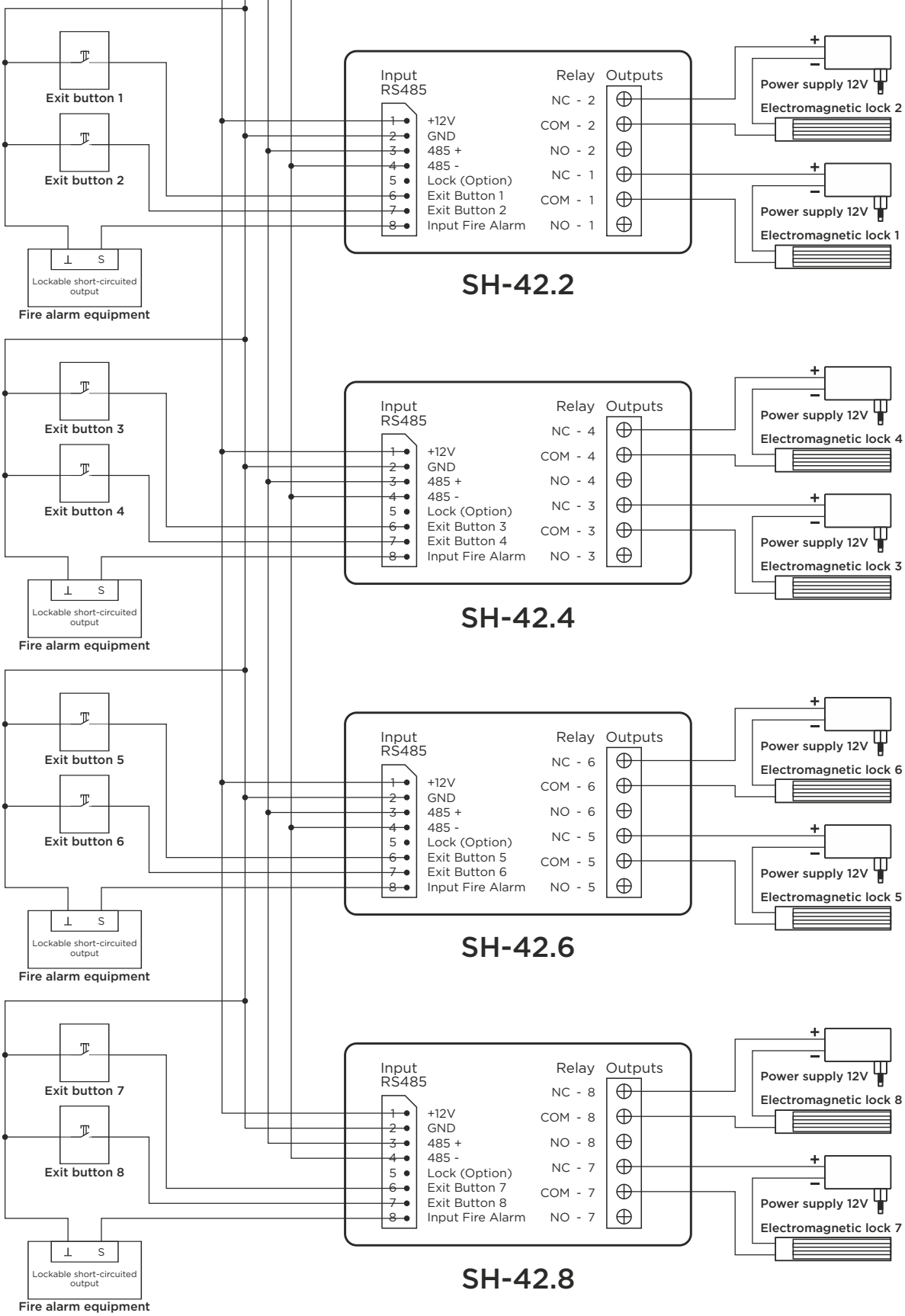


Wiring diagram for SH-42.2 using the «Lock» input
and an electromagnetic lock powered by its own separate power supply

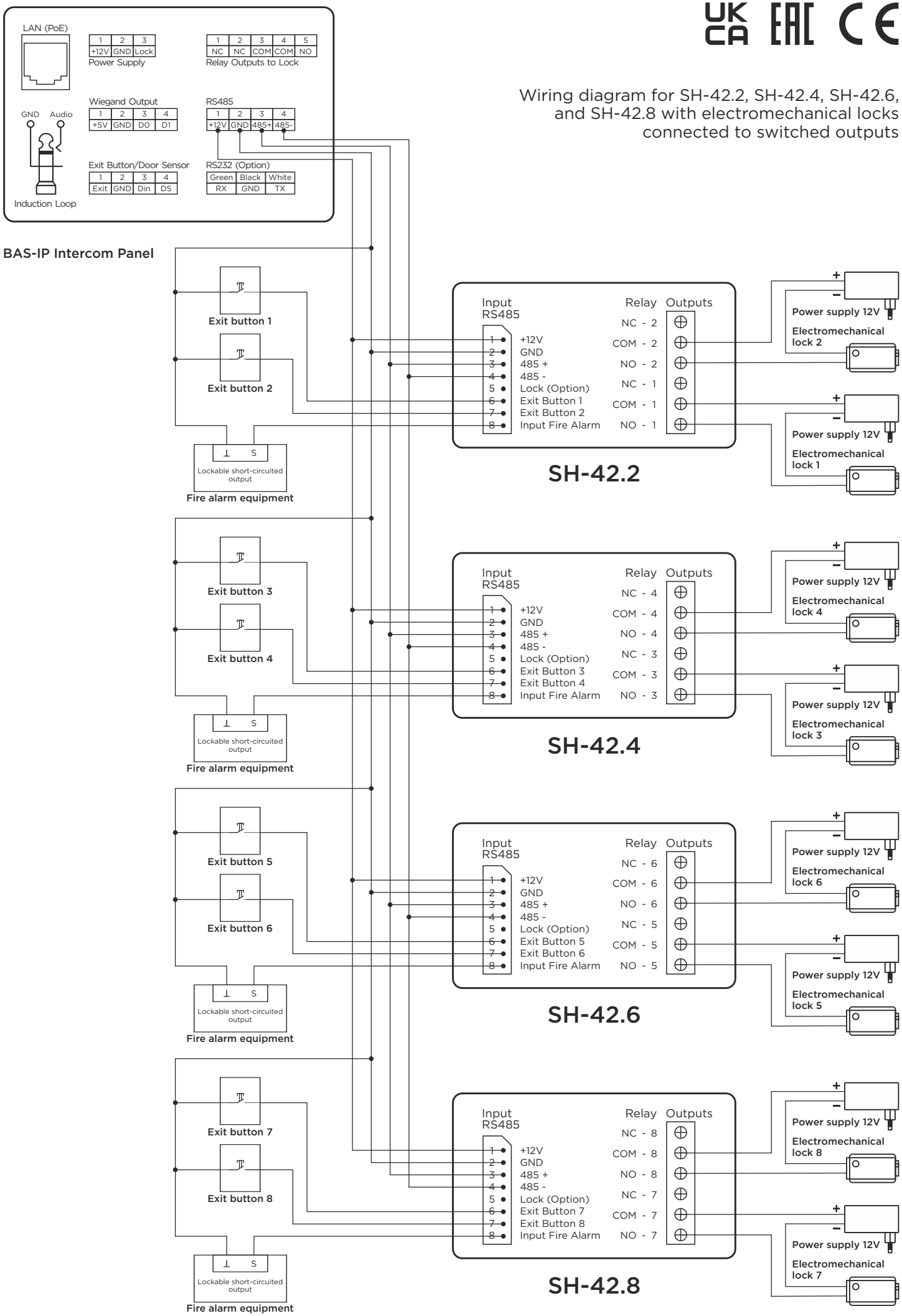
Wiring diagram for SH-42.2, SH-42.4, SH-42.6, and SH-42.8 with electromagnetic locks connected to switched outputs



BAS-IP Intercom Panel

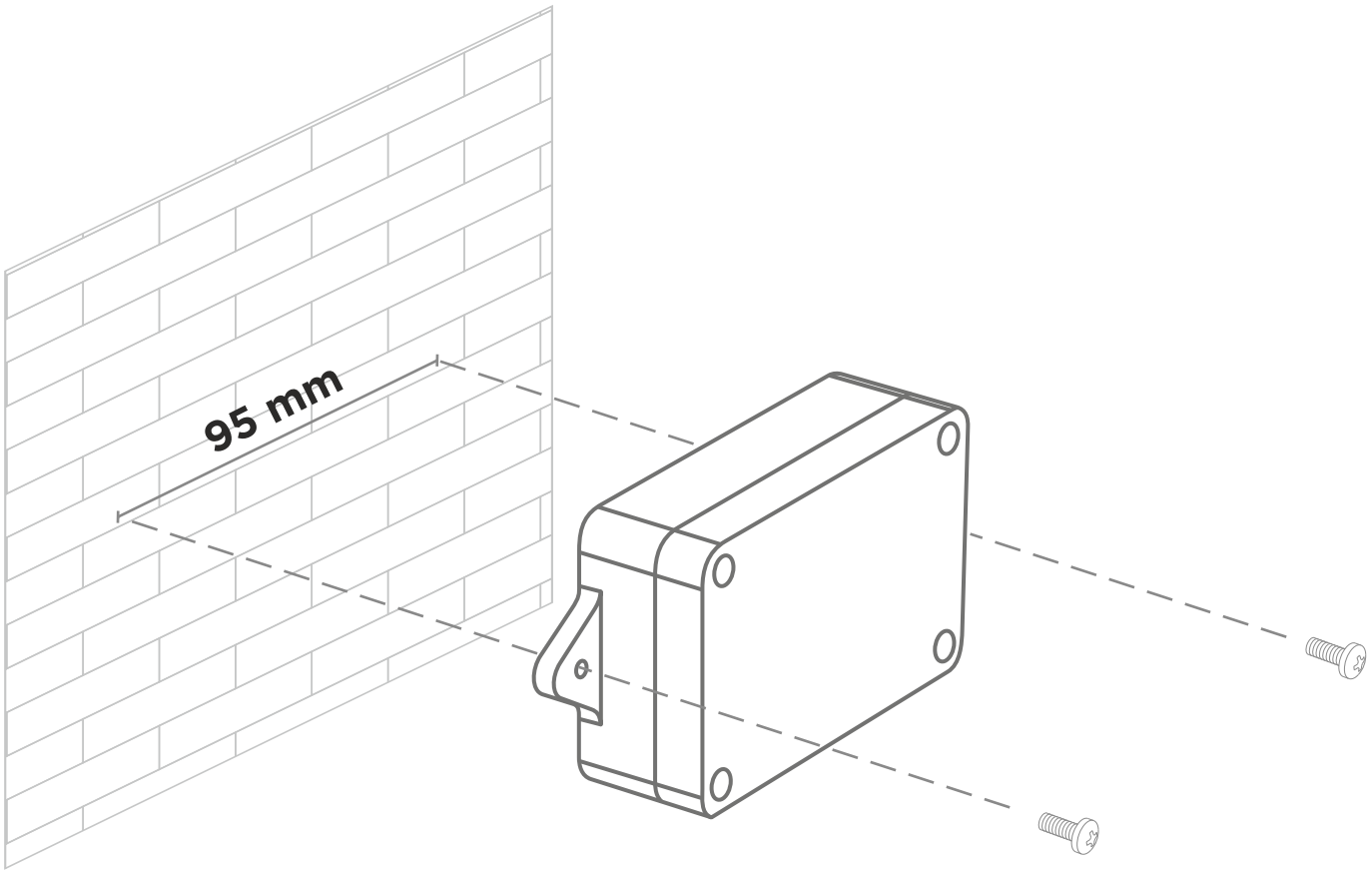


Wiring diagram for SH-42.2, SH-42.4, SH-42.6, and SH-42.8 with electromechanical locks connected to switched outputs



Mechanical mounting

Prior to installing the SH-42 module, ensure two mounting holes are drilled on the wall with a center-to-center spacing of 95 mm.



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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.

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Notes

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Notes


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