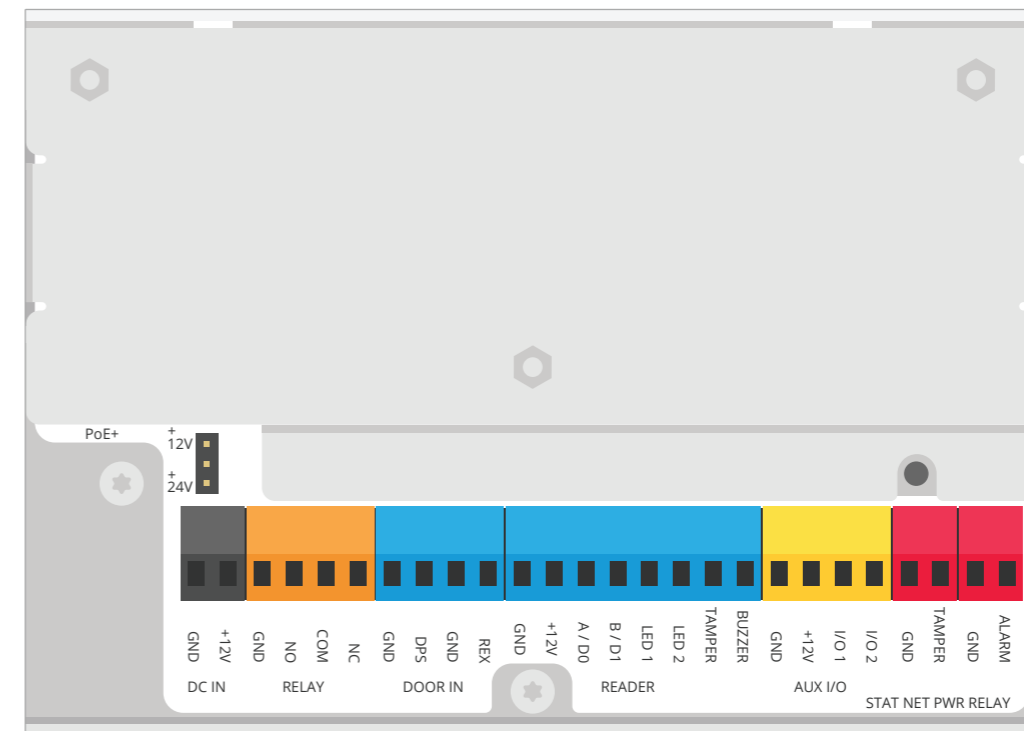




AXIS A12 Network Door Controller Series

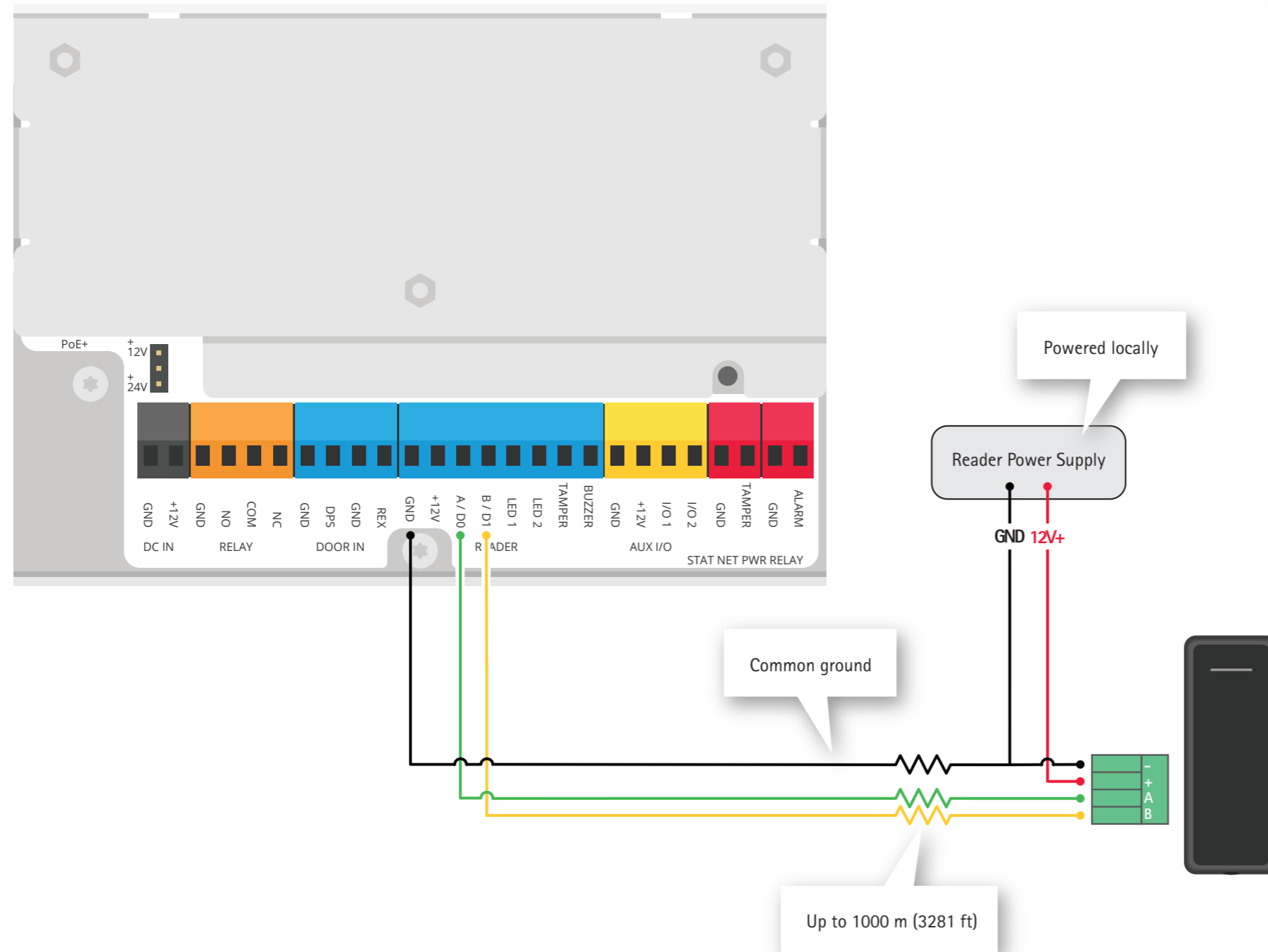


Electrical wiring drawings

Installation with long cable for OSDP reader

Requirements

- > Reader powered locally, not by controller
- > Reader data wiring
 - > RS485 cable, only RS485 communication in cable
 - > Twisted pair with shield
 - > AWG 24
 - > 120 ohm impedance

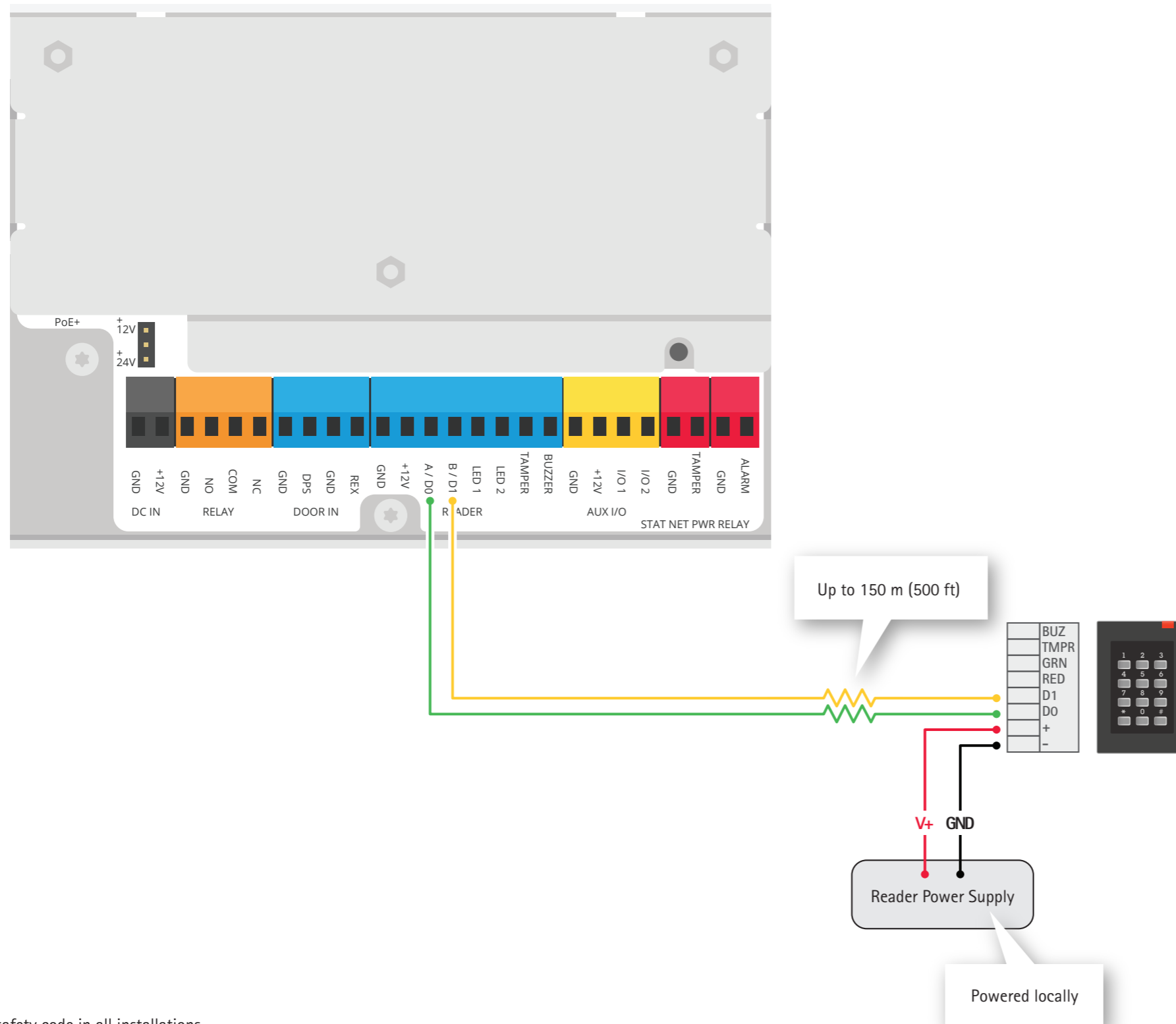


Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, controller power supply, network switch, battery backup and UPS.
 Ensure that your power supplies and relays are rated for the intended purposes.
 This is just an example. Always refer to the pin chart provided from AXIS Camera Station for installation.

Installation with long cable for Wiegand reader

Requirements

- > Reader powered locally, not by controller
- > Reader data wiring
 - > AWG 22



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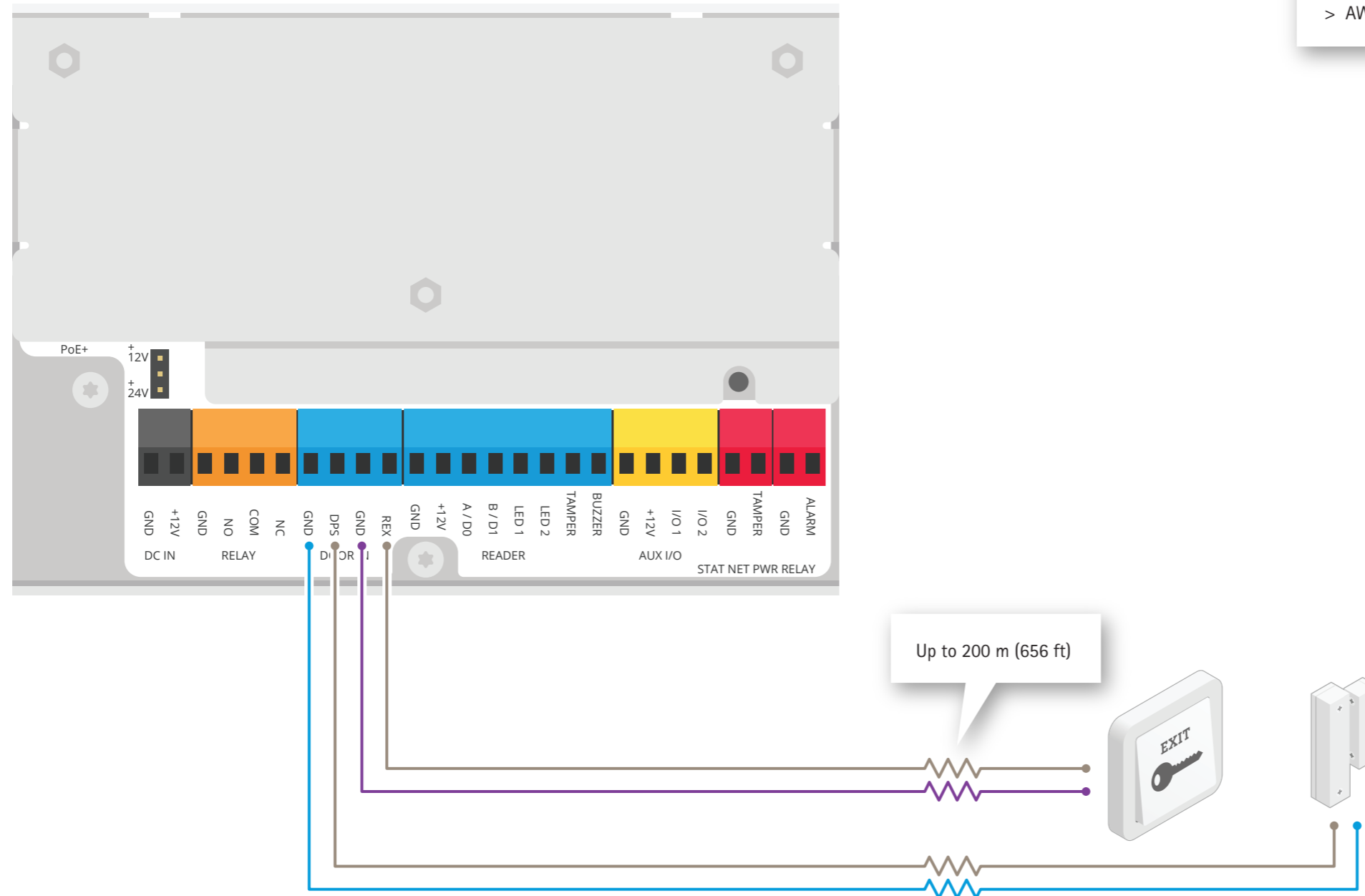
Installation with long cable for door inputs

Application

Input cable is longer than recommended 30 m (100 ft)

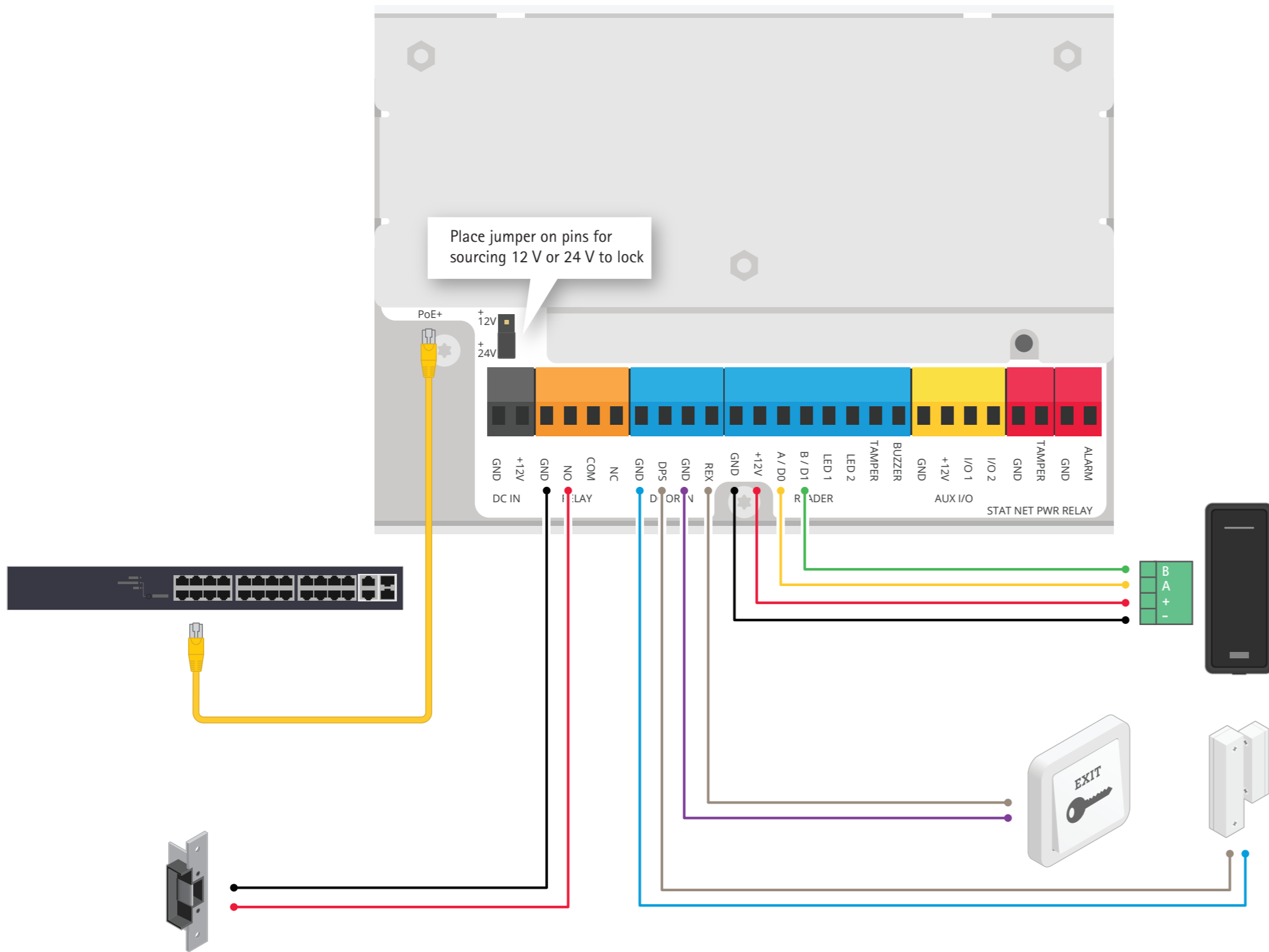
Requirements

> AWG 28-16



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Standard installation



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Application

Standard one-door installation with configuration in AXIS Camera Station

Considerations

- > 12 V or 24 V fail-secure lock
- > PoE Class 4 switch
- > All peripheral consumption within the controller's power budget

AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Select Relay 1 for the first lock

Locks
 Relay port 1 Not connected
4. Add a door monitor and assign it to I/O 5

Door monitor ^

DPS
 REX
5. Add an OSDP reader on door side A and assign it to Reader port 1

Reader ^

General Advanced

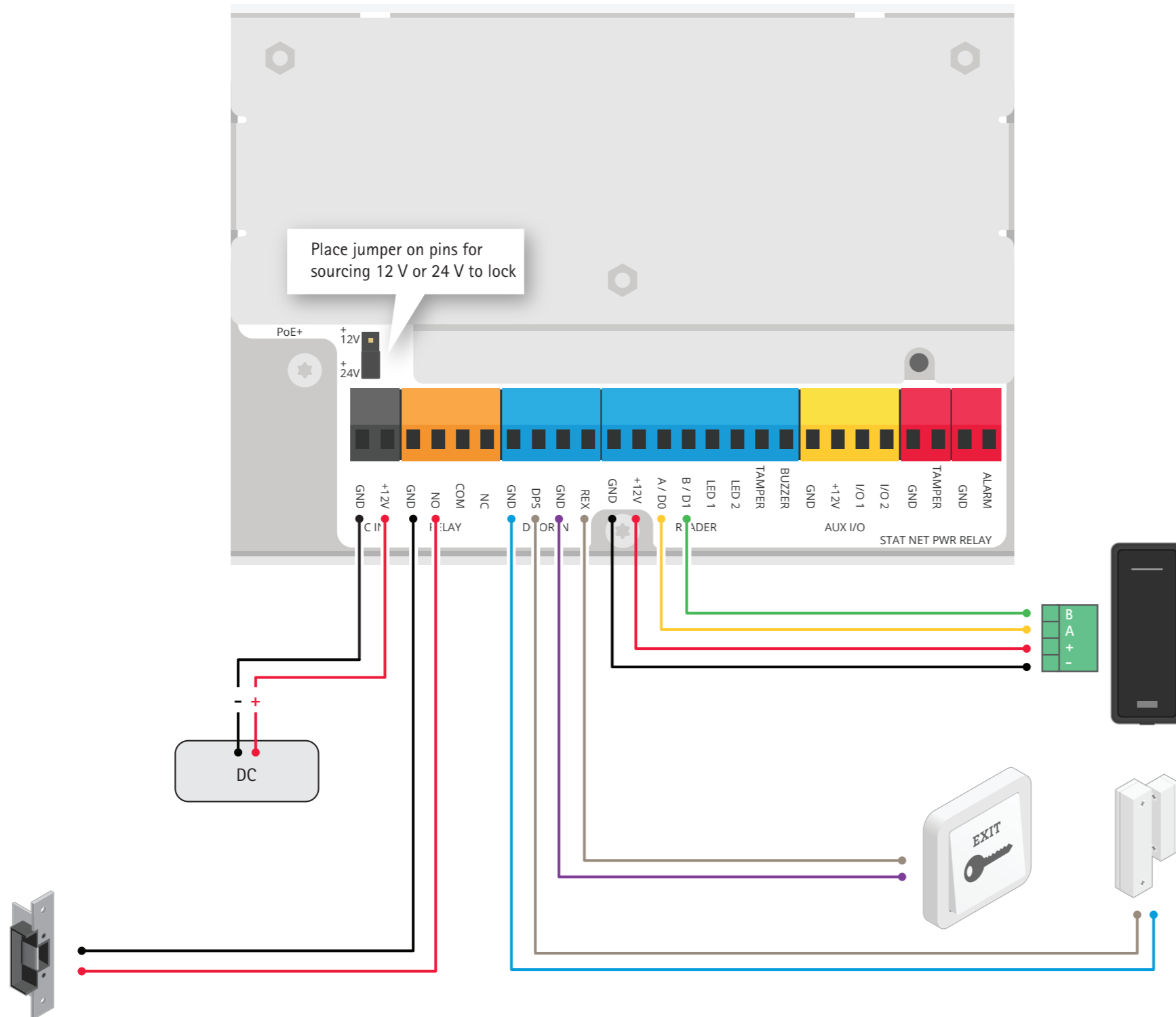
Reader port 1 on device card
 Reader port 2 on device card

OSDP RS485
6. Add a REX device on door side B and assign it to I/O 6

REX device ^

DPS
 REX

Standard installation powered by DC



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Application

2100 mA at 12 V if powered by DC
 1400 mA at 12 V if powered by PoE Class 4

Considerations

- > 12 V or 24 V fail-secure lock
- > PoE Class 4 switch
- > All peripheral consumption within the controller's power budget

AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Select Relay 1 for the first lock

Locks
 Relay port 1 Not connected
4. Add a door monitor and assign it to I/O 5

Door monitor

 - DPS
 - REX
5. Add an OSDP reader on door side A and assign it to Reader port 1

Reader

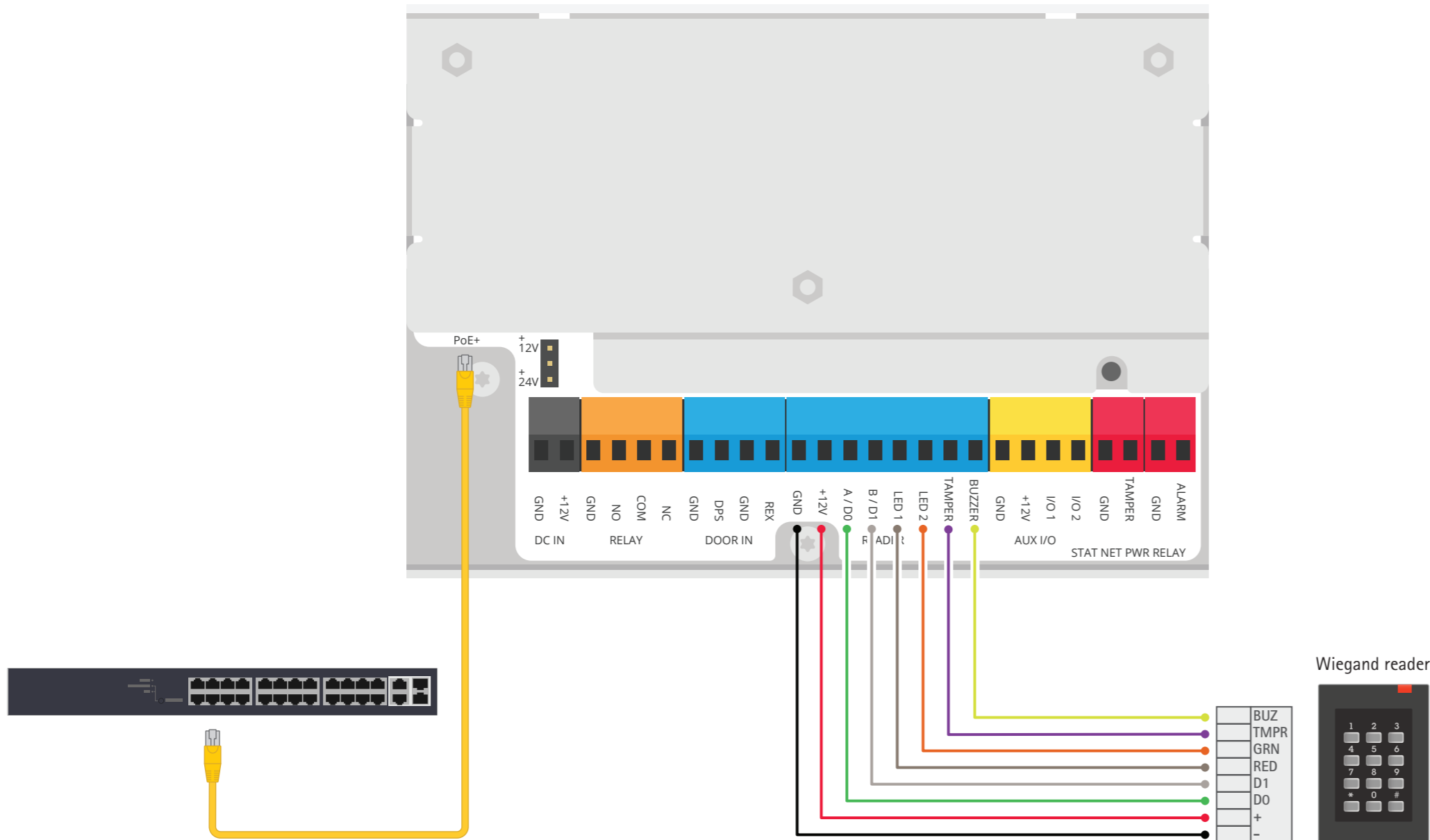
General Advanced

 - Reader port 1 on device card
 - Reader port 2 on device card
 - OSDP RS485
6. Add a REX device on door side B and assign it to I/O 6

REX device

 - DPS
 - REX

Possible reader options



Application

One Wiegand reader for the controller with configuration in AXIS Camera Station

Considerations

- > PoE Class 4 switch
- > All peripheral consumption within the controller's power budget

AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Add a Wiegand reader with Dual wire LED control on door side A and assign it to Reader port 1

Reader ^

General
Advanced

Reader type

Card reader v

OSDP RS485
 Wiegand
 IP reader (i)

Reader port 1

LED control

Single wire v

Tamper = Open circuit
 Tamper = Closed circuit

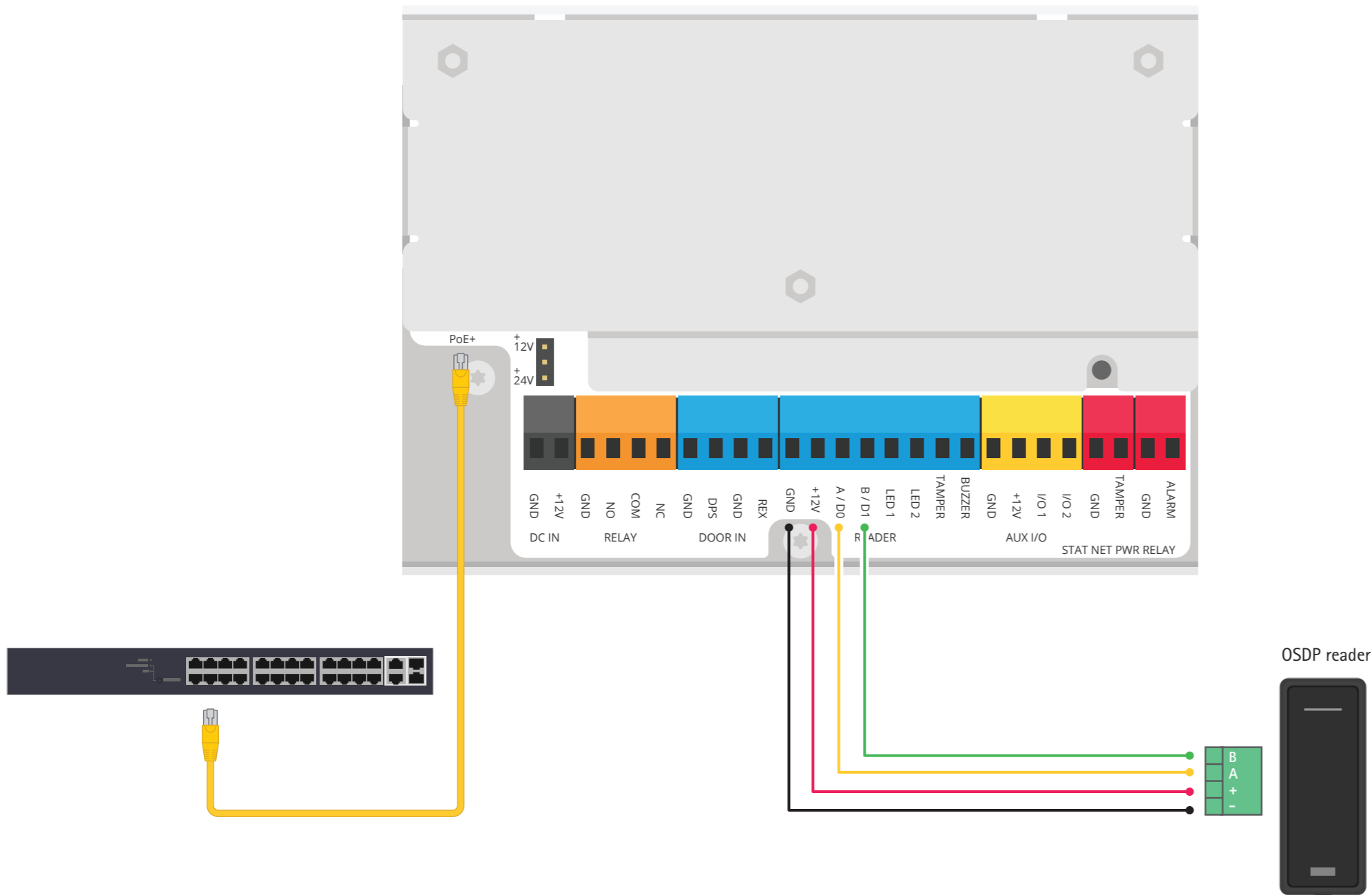
Tamper debounce time (ms) (i)

0

Supervised input

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 This is just an example. Always refer to the pin chart provided from AXIS Camera Station for installation.

Possible reader options



Application

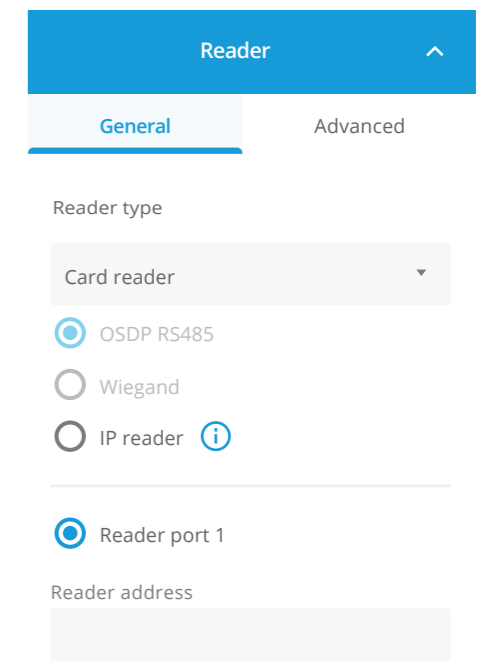
One OSDP for the controller with configuration in AXIS Camera Station

Considerations

- > PoE Class 4 switch
- > All peripheral consumption within the controller's power budget

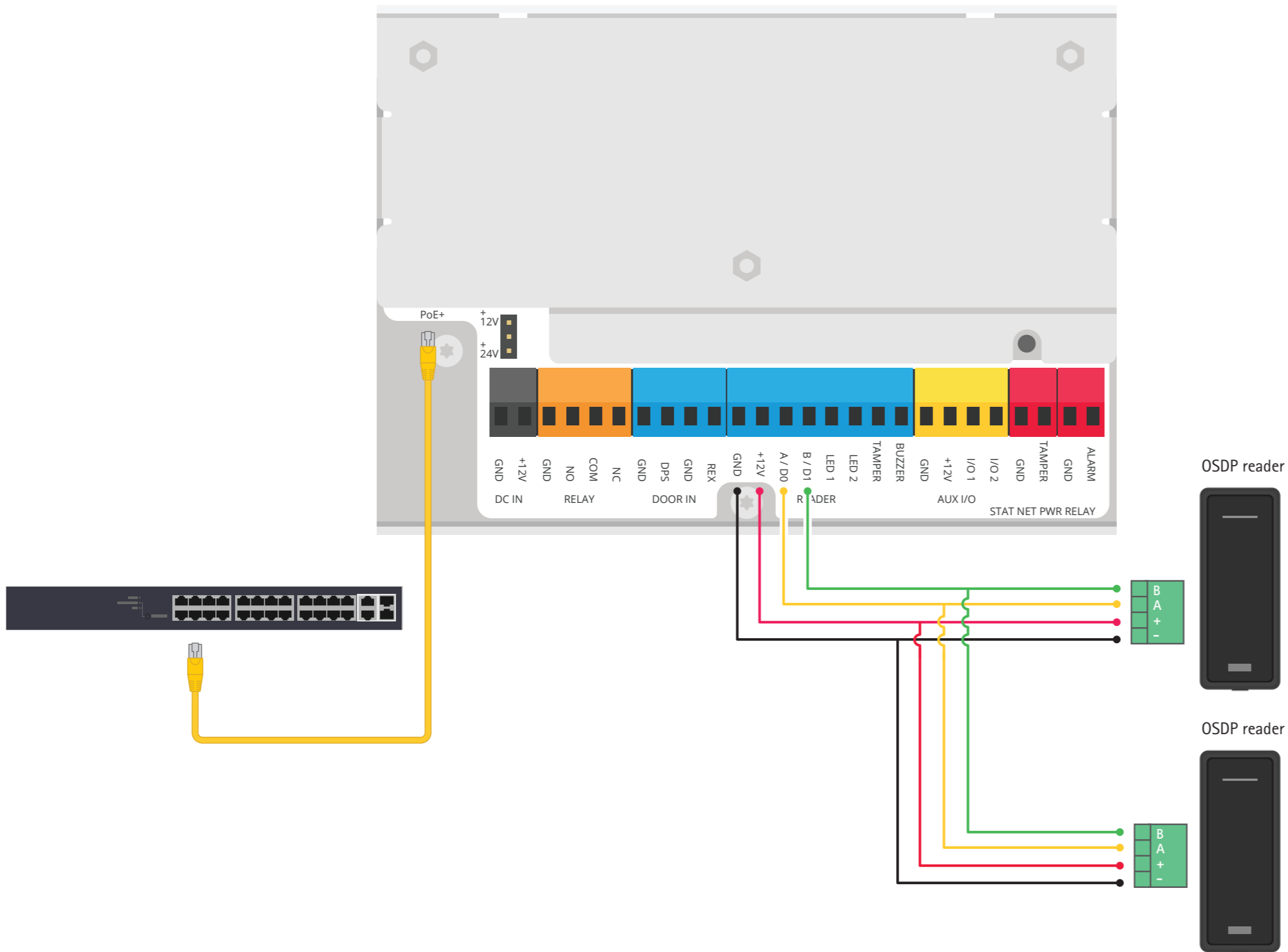
AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Add an OSDP reader on door side A and assign it to Reader port 1



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 This is just an example. Always refer to the pin chart provided from AXIS Camera Station for installation.

Possible reader options



Application

Two OSDP readers (multi-drop) for the controller with configuration in AXIS Camera Station

Considerations

- > PoE Class 4 switch
- > All peripheral consumption within the controller's power budget

AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Add an OSDP reader on door side A and assign it to Reader port 1

Reader ^

General

Advanced

Reader type

Card reader

OSDP RS485
 Wiegand
 IP reader i

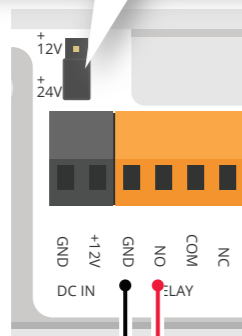
Reader port 1

Reader address

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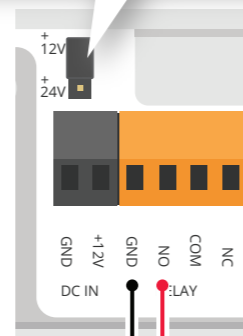
Possible relay options for A-line products

Place jumper on pins for sourcing 24 V to lock



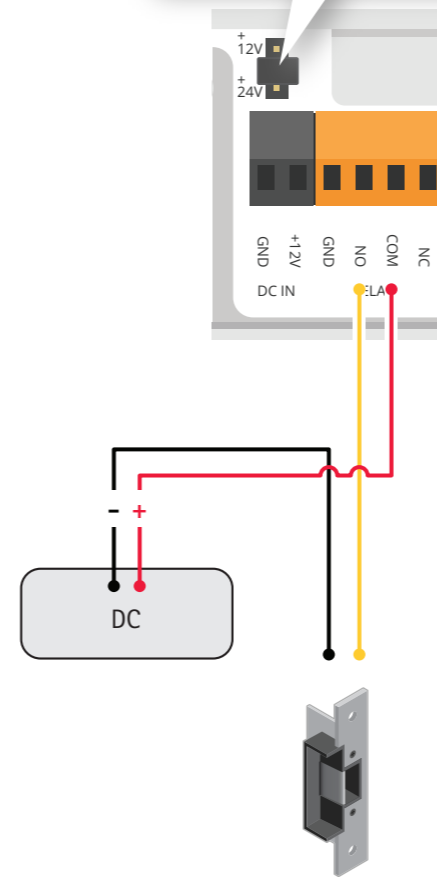
24V Fail-secure lock

Place jumper on pins for sourcing 12 V to lock



12V Fail-secure lock

Place jumper on COM pin for dry contact



Externally powered
Fail-safe lock

Application

Configuration of A-line relays with jumpers

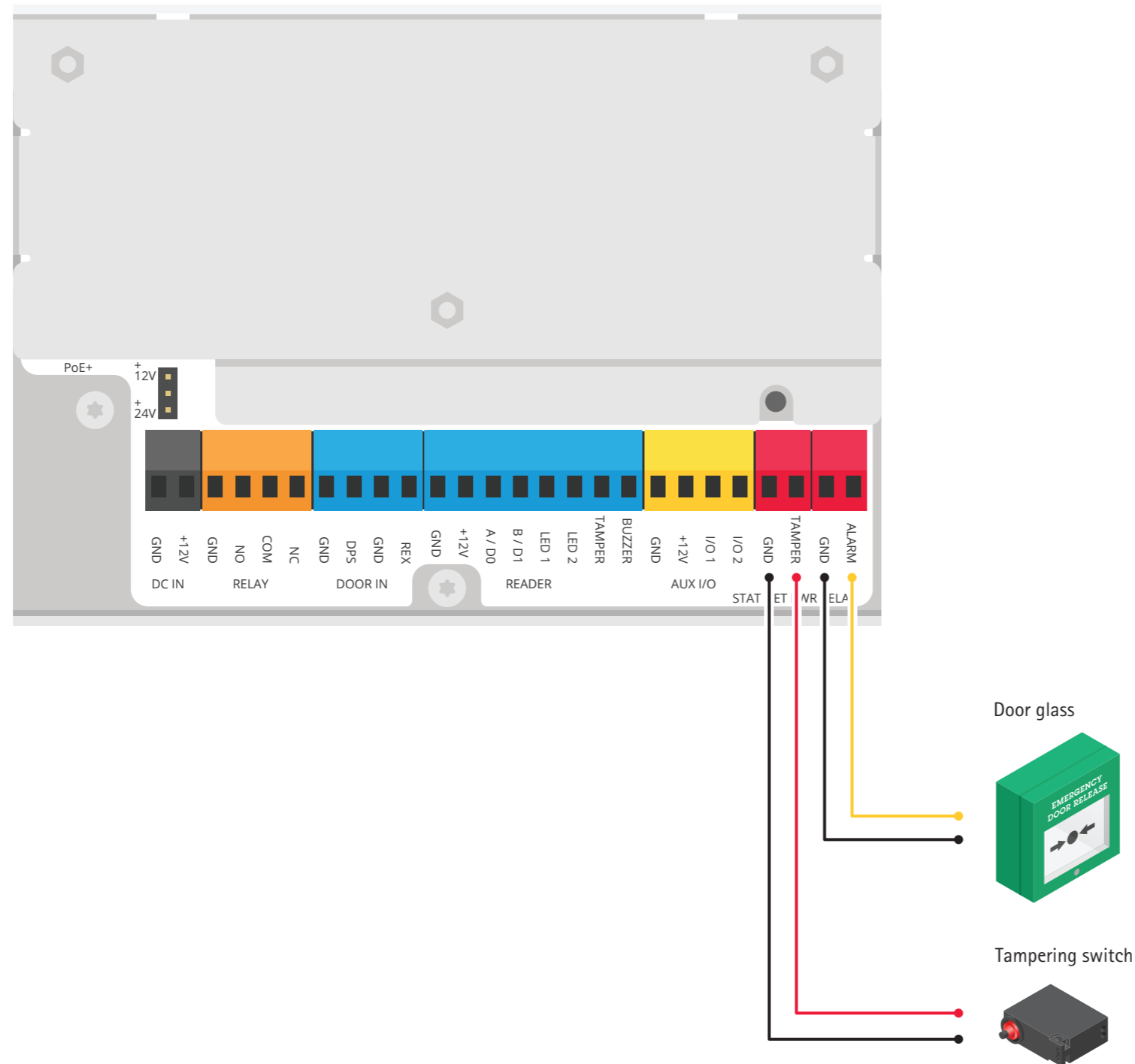
Applicable for:

- Axis door controllers
- Axis I/O relay modules

For product-specific voltage and specification for the relay, see the product datasheet.

Adhere to local life safety code in all installations.
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This is just an example. Always refer to the pin chart provided from AXIS Camera Station for installation.

External tamper and emergency input connections



Application

Cable should not be longer than 30 m (100 ft)

AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Add Emergency input and choose configuration

Emergency input ^

Emergency state = Open circuit
 Emergency state = Closed circuit

Debounce time (ms) i

Emergency action = Unlock door
 Emergency action = Lock door

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 This is just an example. Always refer to the pin chart provided from AXIS Camera Station for installation.