AXIS A12 Network Door Controller Series

PoE+

+12V

+24V

GND
+12V
GND
NO
COM
NC
GND
DPS
GND
REX
GND
+12V
A / DO
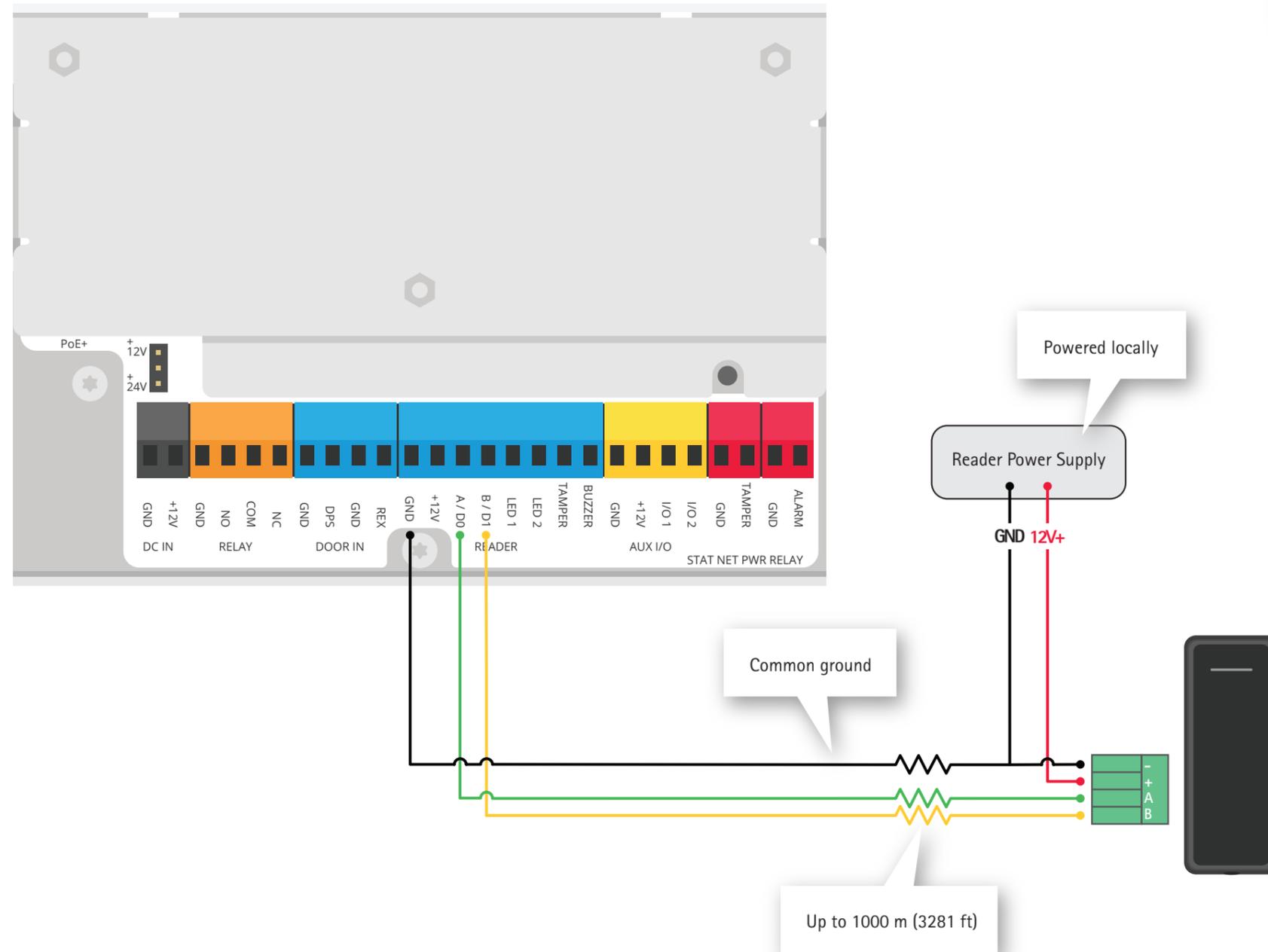B / D1
LED 1
LED 2
TAMPER
BUZZER
GND
+12V
I/O 1
I/O 2
TAMPER
GND
ALARM

DC IN RELAY DOOR IN READER AUX I/O STAT NET PWR RELAY
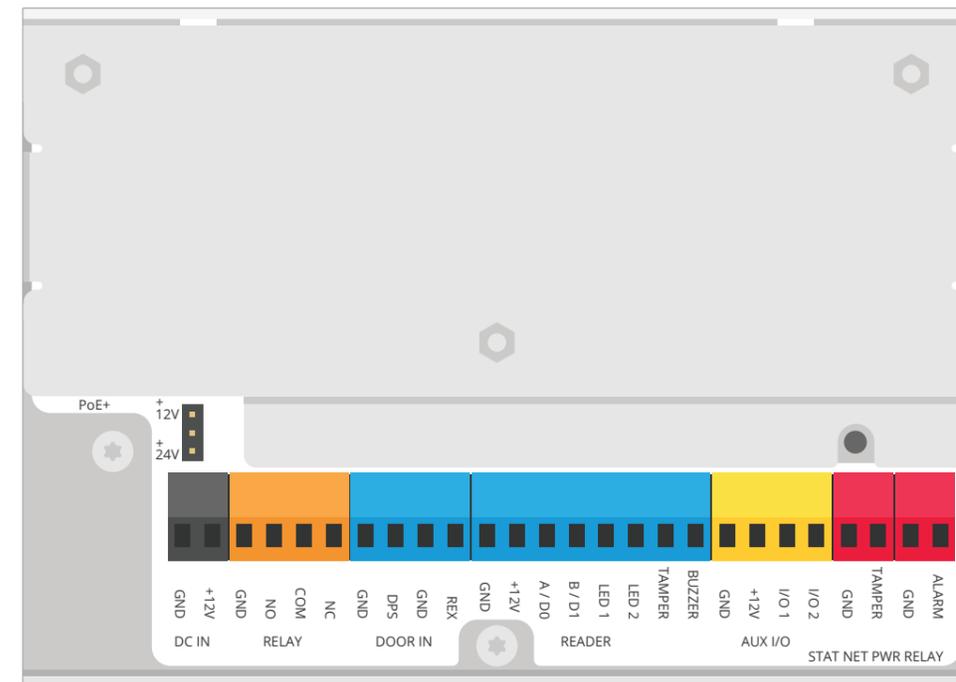
Electrical wiring drawings

Installation with long cable for OSDP reader

PoE+
+ 12V
+ 24V

GND +12V | GND NO COM NC | GND DPS GND REX | GND +12V A/D0 B/D1 | LED 1 LED 2 TAMPER BUZZER | GND +12V I/O1 I/O2 | GND TAMPER | GND ALARM

DC IN | RELAY | DOOR IN | READER | AUX I/O | STAT NET PWR RELAY

Powered locally

Reader Power Supply

GND 12V+

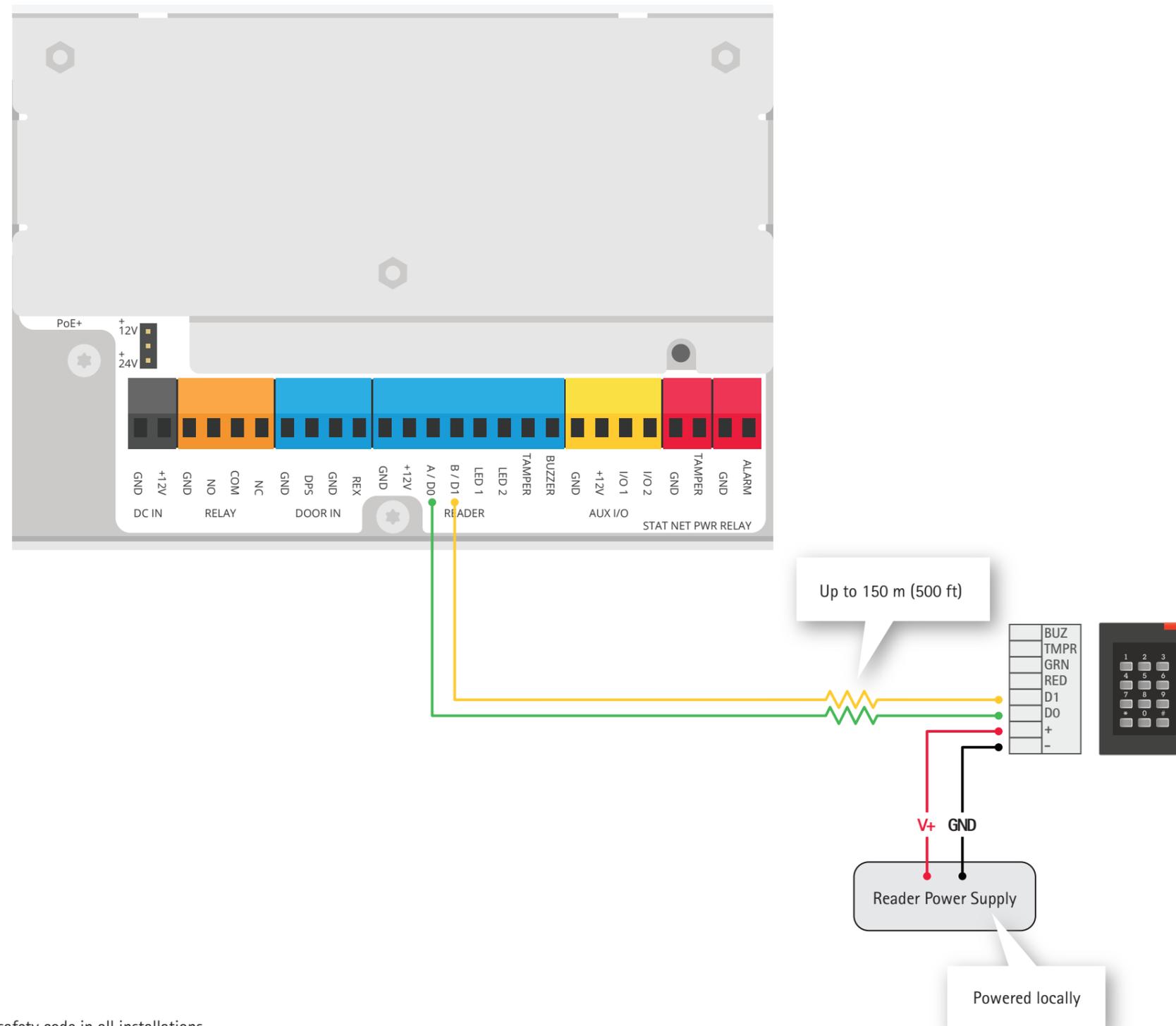Common ground

Up to 1000 m (3281 ft)

– + A B

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

Up to 150 m (500 ft)

BUZ
TMPR
GRN
RED
D1
D0
+
–

V+   GND

Reader Power Supply

Powered locally

PoE+
+12V
+24V

GND +12V | GND NO COM NC | GND DPS GND REX GND +12V A/D0 B/D1 LED 1 LED 2 TAMPER BUZZER | GND +12V I/O 1 I/O 2 | GND TAMPER | GND ALARM

DC IN | RELAY | DOOR IN | READER | AUX I/O | STAT NET PWR RELAY

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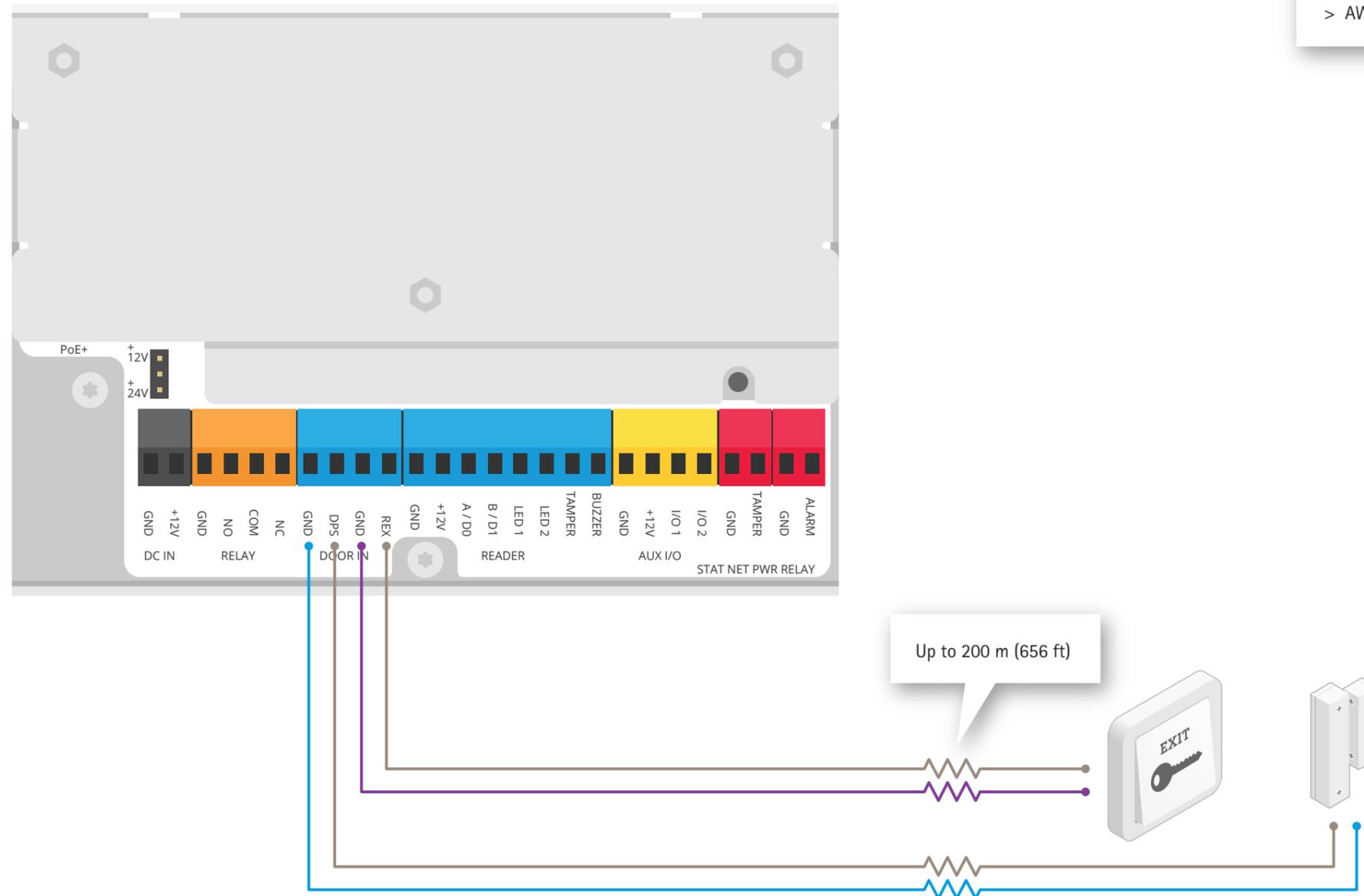This is just an example. Always refer to the pin chart provided from AXIS Camera Station for installation.

Installation with long cable for door inputs

PoE+
+
12V
+
24V

GND
+12V
DC IN

GND
NO
COM
NC
RELAY

GND
DPS
GND
REX
DOOR IN

GND
+12V
A / D0
B / D1
LED 1
LED 2
TAMPER
BUZZER
READER

GND
+12V
I/O 1
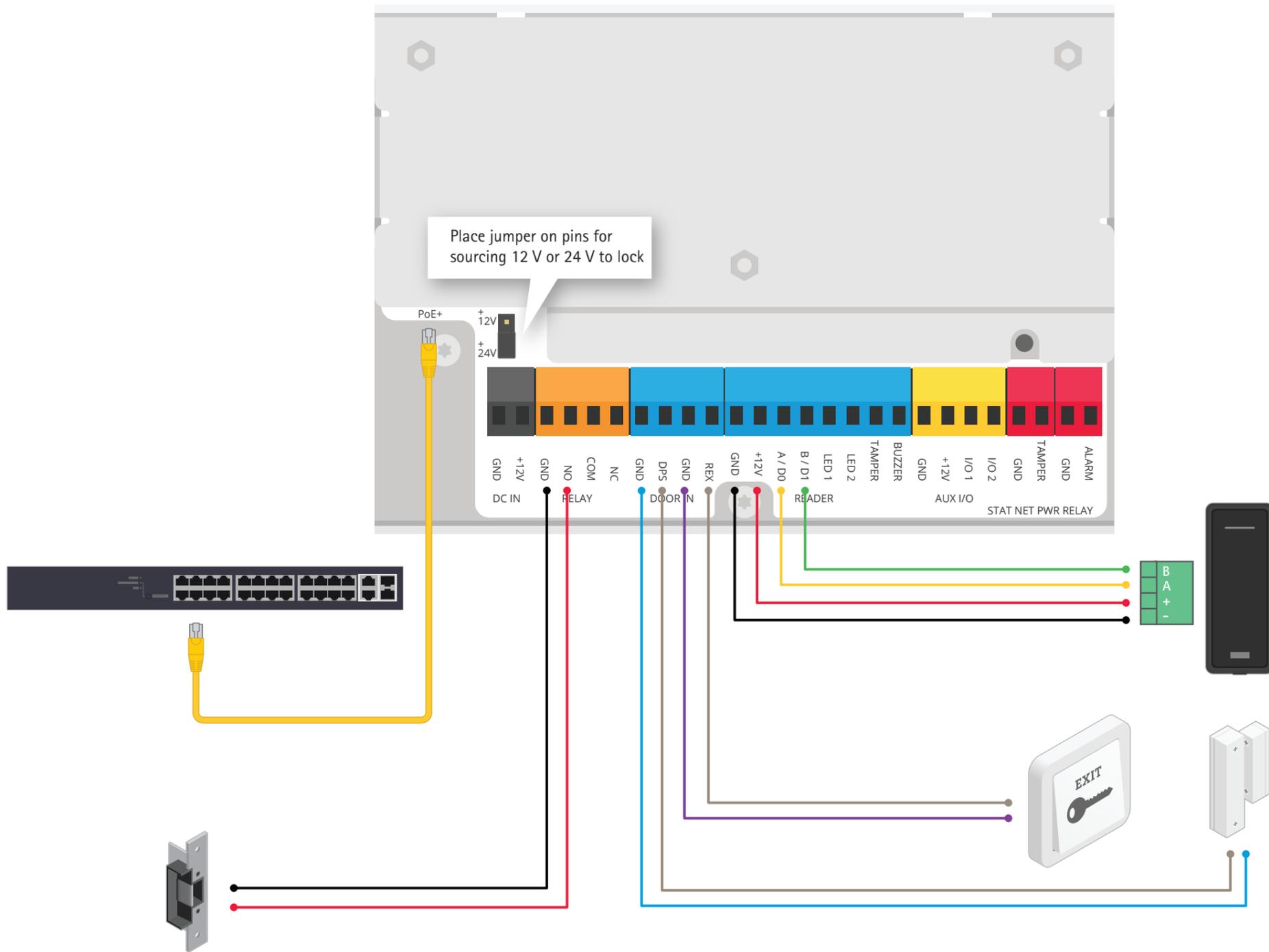I/O 2
AUX I/O

GND
TAMPER
GND
ALARM
STAT NET PWR RELAY

Up to 200 m (656 ft)

EXIT

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Standard installation

Place jumper on pins for sourcing 12 V or 24 V to lock

PoE+

+12V
+24V

GND +12V | GND NO COM NC | GND DPS GND REX GND +12V A/D0 B/D1 LED1 LED2 TAMPER BUZZER | GND +12V I/O1 I/O2 | GND TAMPER GND ALARM
DC IN | RELAY | DOOR IN | READER | AUX I/O | STAT NET PWR RELAY

B A + -

EXIT

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Standard installation powered by DC

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
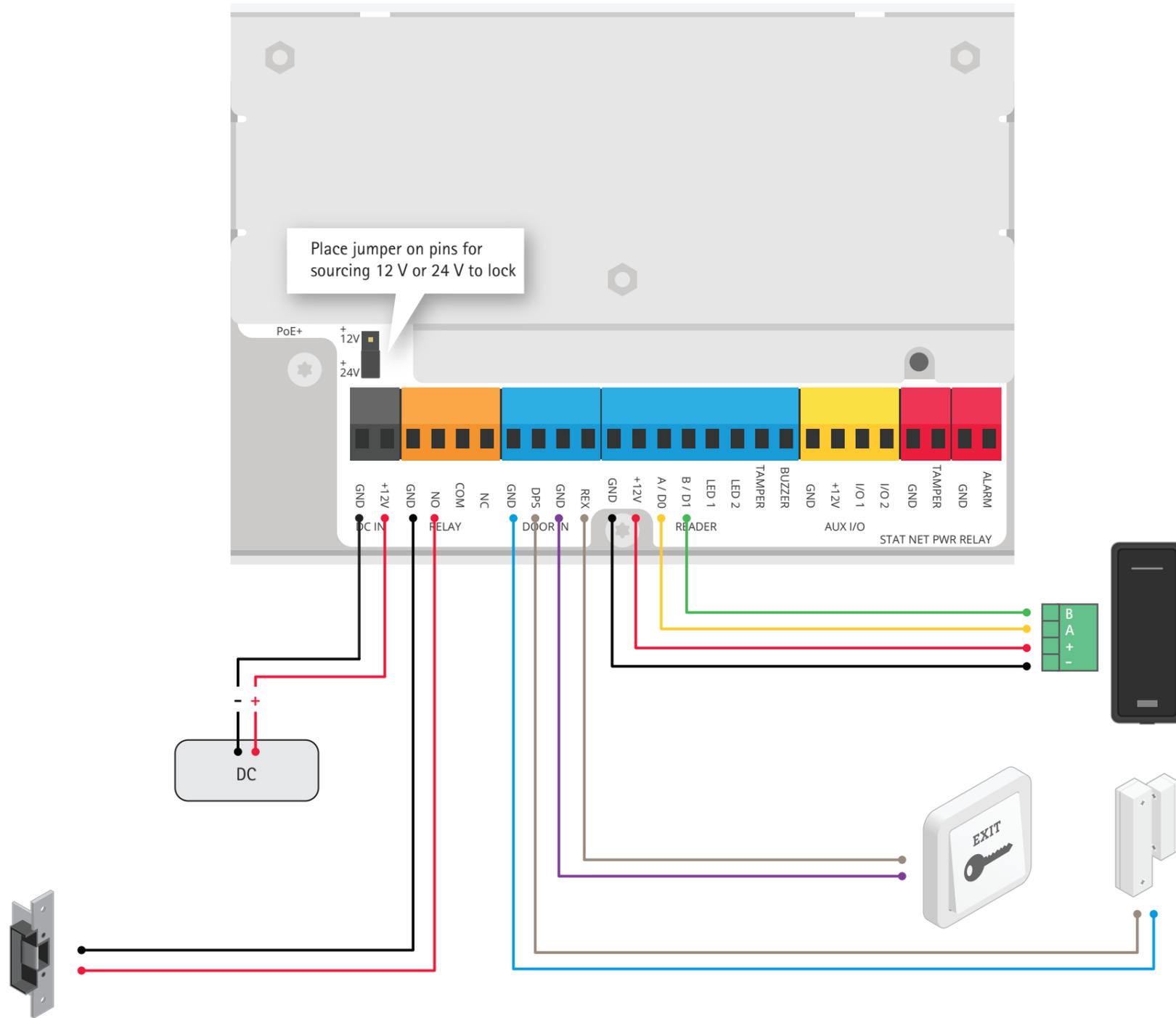
   Reader ∧

   General | Advanced

   ● Reader port 1 on device card
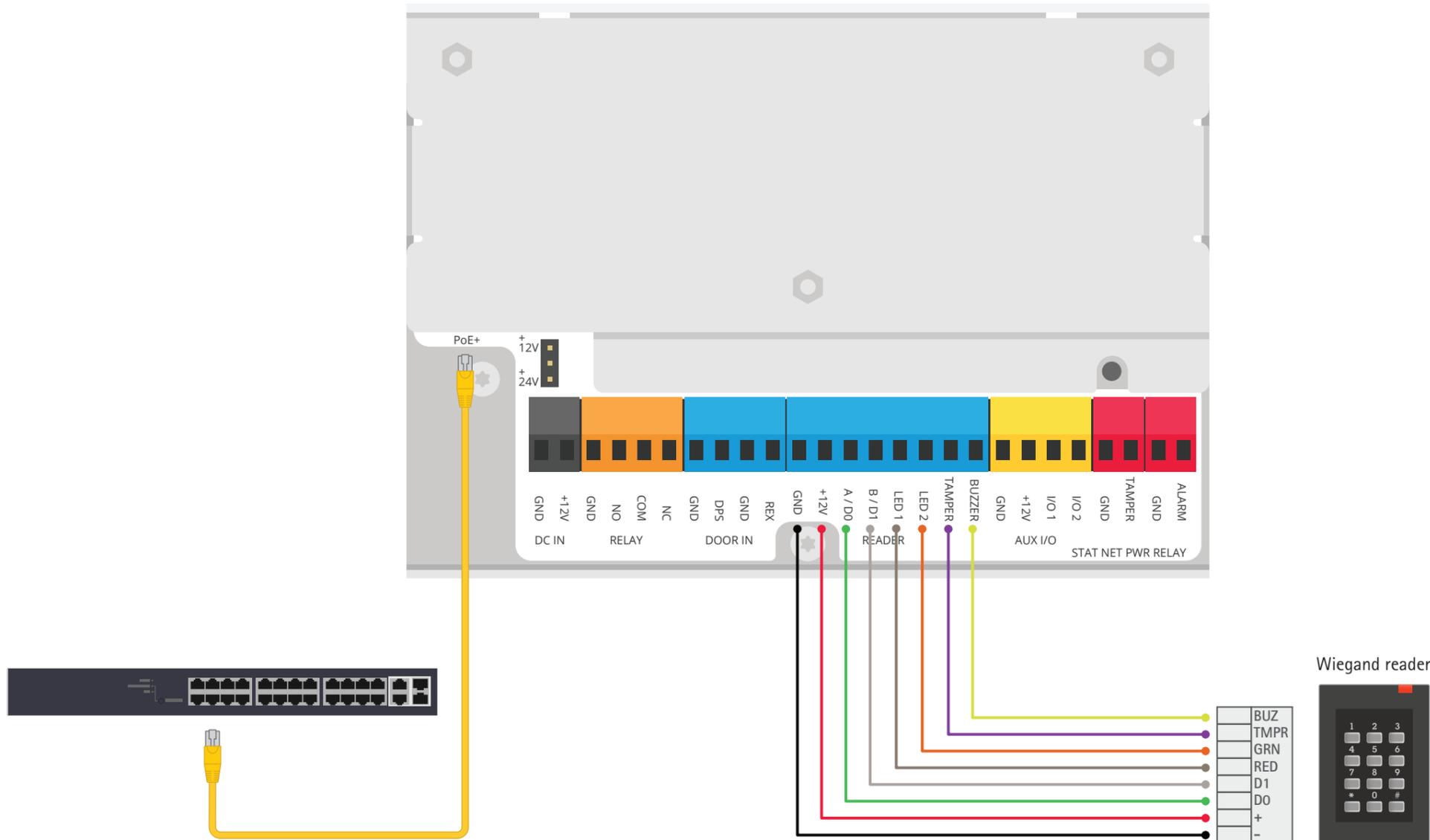   ○ Reader port 2 on device card

   ● OSDP RS485

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

   REX device ∧

   ○ DPS
   ● REX

Place jumper on pins for sourcing 12 V or 24 V to lock

PoE+
+12V
+24V

GND +12V | GND NO COM NC | GND DPS GND REX GND +12V A/D0 B/D1 LED 1 LED 2 TAMPER BUZZER | GND +12V I/O 1 I/O 2 | GND TAMPER GND ALARM

DC IN | RELAY | DOOR IN | READER | AUX I/O | STAT NET PWR RELAY

DC

B
A
+
−

EXIT

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Possible reader options

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 ▾

○ OSDP RS485

◉ Wiegand

○ IP reader ⓘ

◉ Reader port 1

LED control

Single wire ▾
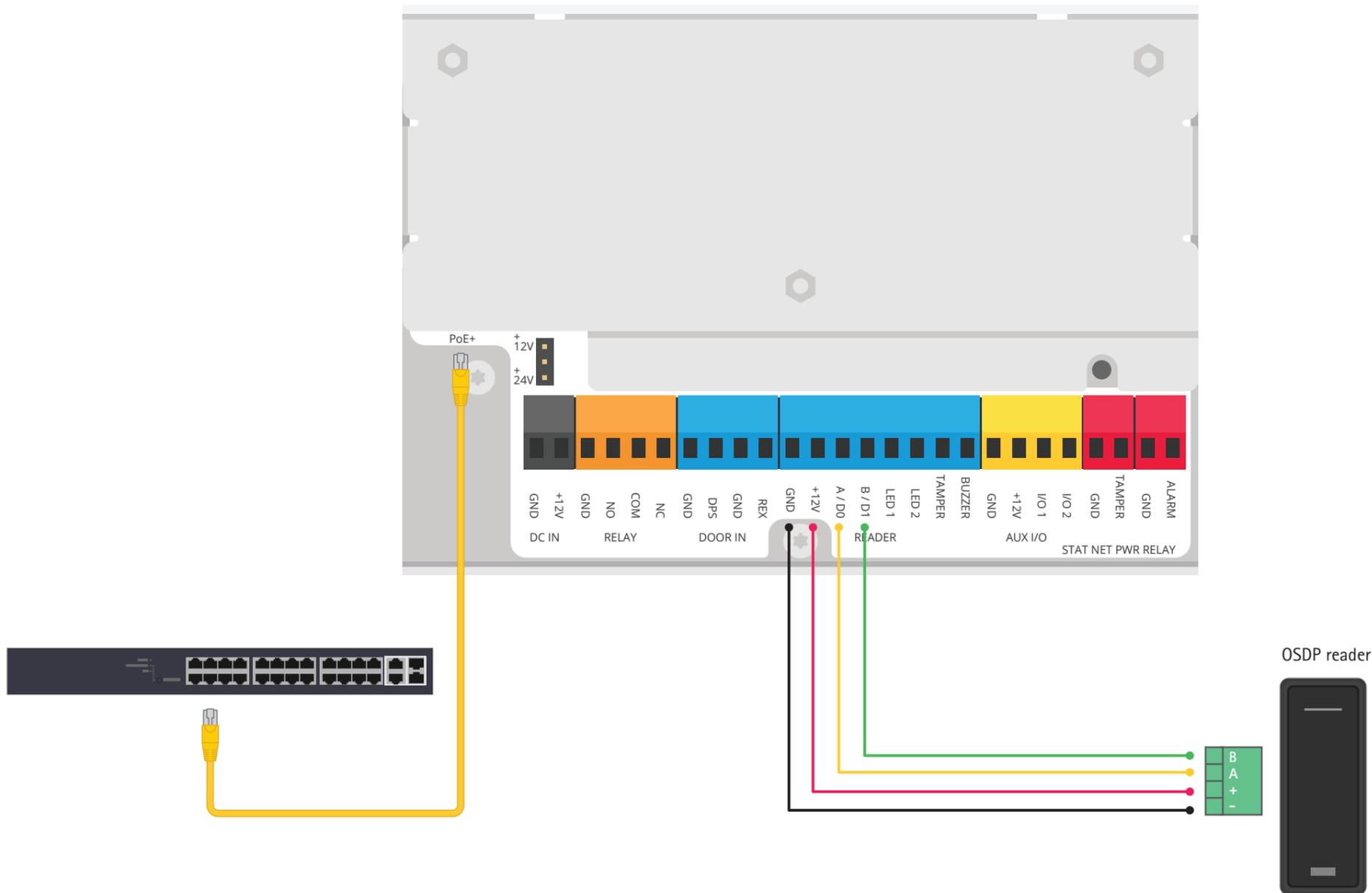
○ Tamper = Open circuit

◉ Tamper = Closed circuit

Tamper debounce time (ms) ⓘ

0

Supervised input ⬜

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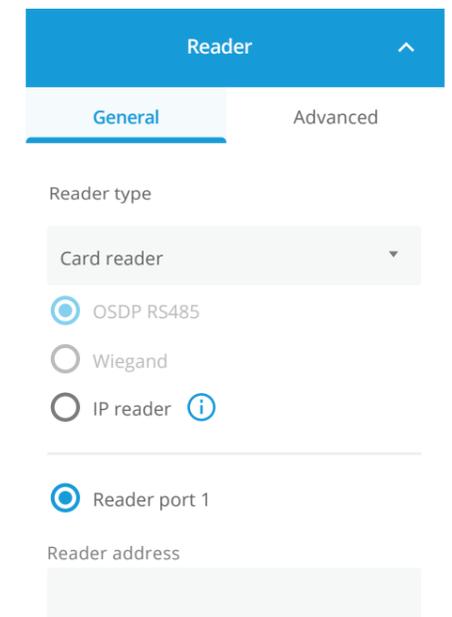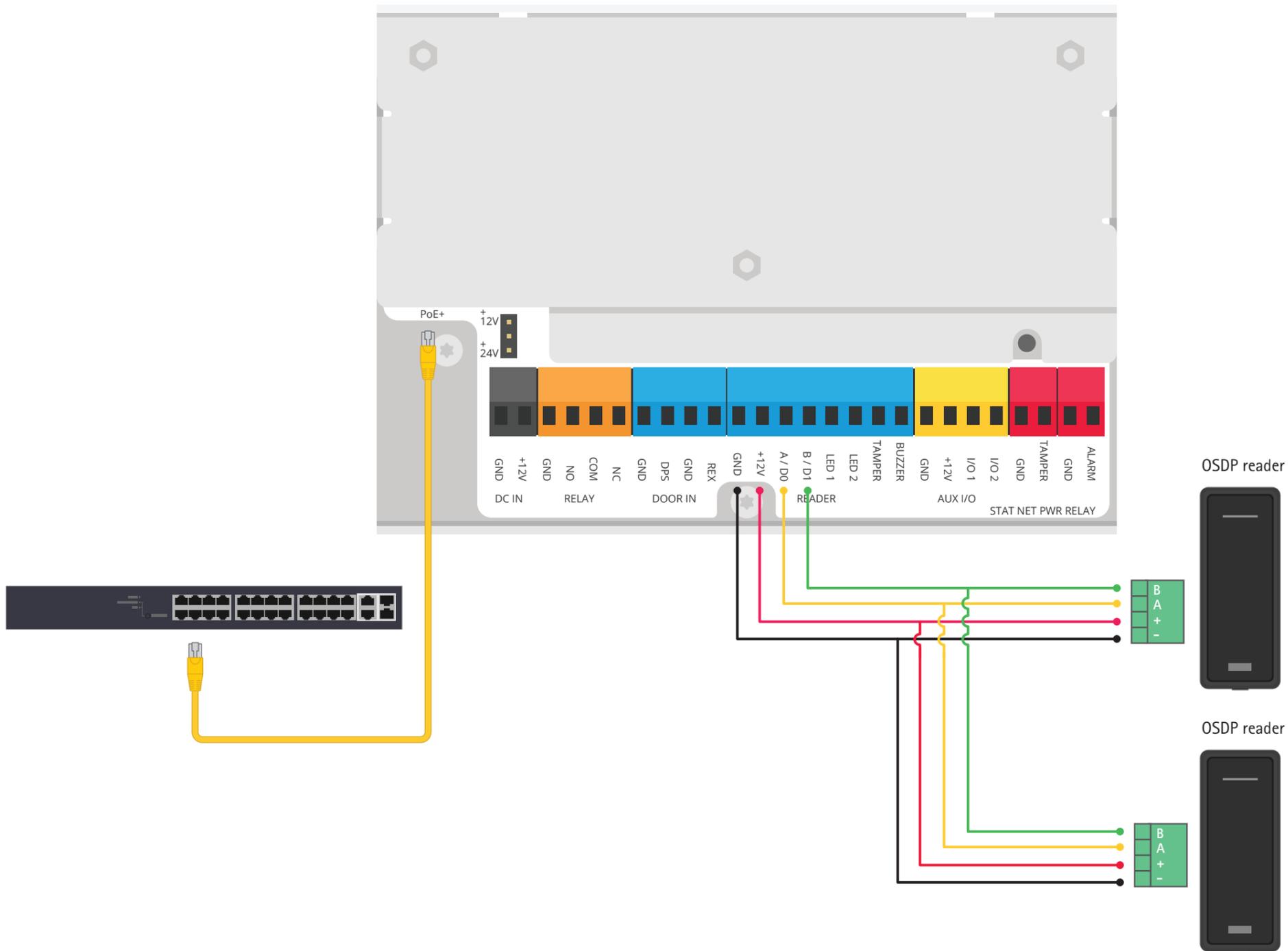
Possible reader options

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 ⓘ

◉ Reader port 1

Reader address

DC IN: GND +12V
RELAY: GND NO COM NC
DOOR IN: GND DPS GND REX
READER: GND +12V A / D0 B / D1 LED 1 LED 2 TAMPER BUZZER
AUX I/O: GND +12V I/O 1 I/O 2
STAT NET PWR RELAY: GND TAMPER GND ALARM

PoE+
+12V
+24V

OSDP reader

B A + −

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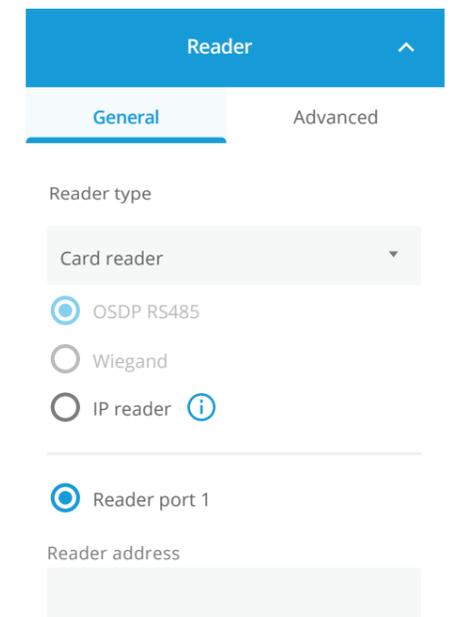
Possible reader options

Considerations

> PoE Class 4 switch

> All peripheral consumption within the controller's power budget

AXIS Camera Station configuration
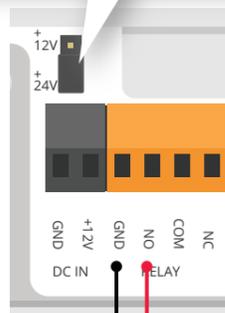
1. Add a door

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 ⓘ

- Reader port 1

Reader address

PoE+

+12V
+24V

GND +12V | GND NO COM NC | GND DPS GND REX | GND +12V A / D0 B / D1 LED 1 LED 2 TAMPER BUZZER | GND +12V I/O 1 I/O 2 | GND TAMPER | GND ALARM

DC IN | RELAY | DOOR IN | READER | AUX I/O | STAT NET PWR RELAY

OSDP reader

B A + −

OSDP reader

B A + −

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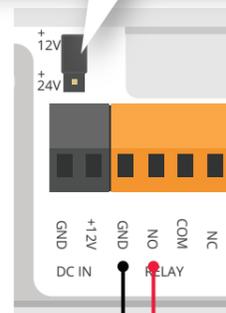
Possible relay options for A-line products

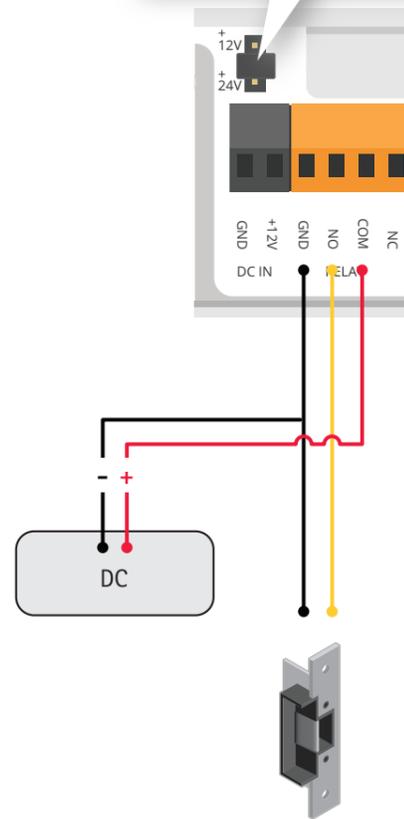Place jumper on pins for sourcing 24 V to lock

Place jumper on pins for sourcing 12 V to lock

Place jumper on COM pin for dry contact

+ 12V
+ 24V

GND +12V GND NO COM NC
DC IN RELAY

+ 12V
+ 24V

GND +12V GND NO COM NC
DC IN RELAY

+ 12V
+ 24V

GND +12V GND NO COM NC
DC IN RELAY

– +
DC

24V Fail-secure lock

12V Fail-secure lock

Externally powered
Fail-safe lock

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External tamper and emergency input connections
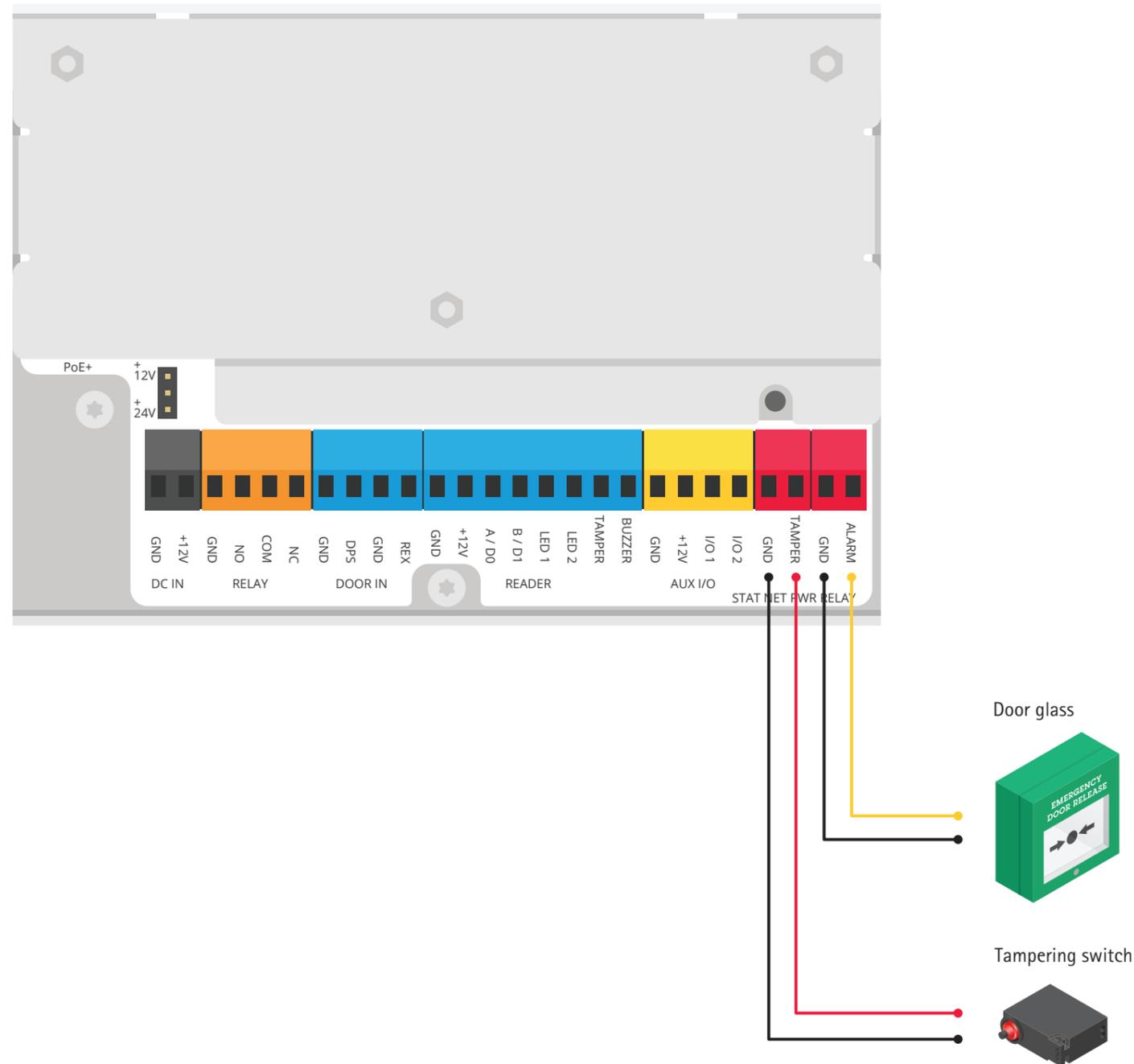
AXIS Camera Station configuration

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) ⓘ

0

● Emergency action = Unlock door

○ Emergency action = Lock door

Door glass

EMERGENCY DOOR RELEASE

Tampering switch

PoE+

+12V
+24V

GND +12V | GND NO COM NC | GND DPS GND REX GND | +12V A/D0 B/D1 LED 1 LED 2 TAMPER BUZZER | GND +12V I/O1 I/O 2 | GND TAMPER | GND ALARM

DC IN | RELAY | DOOR IN | READER | AUX I/O | STAT NET PWR RELAY

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