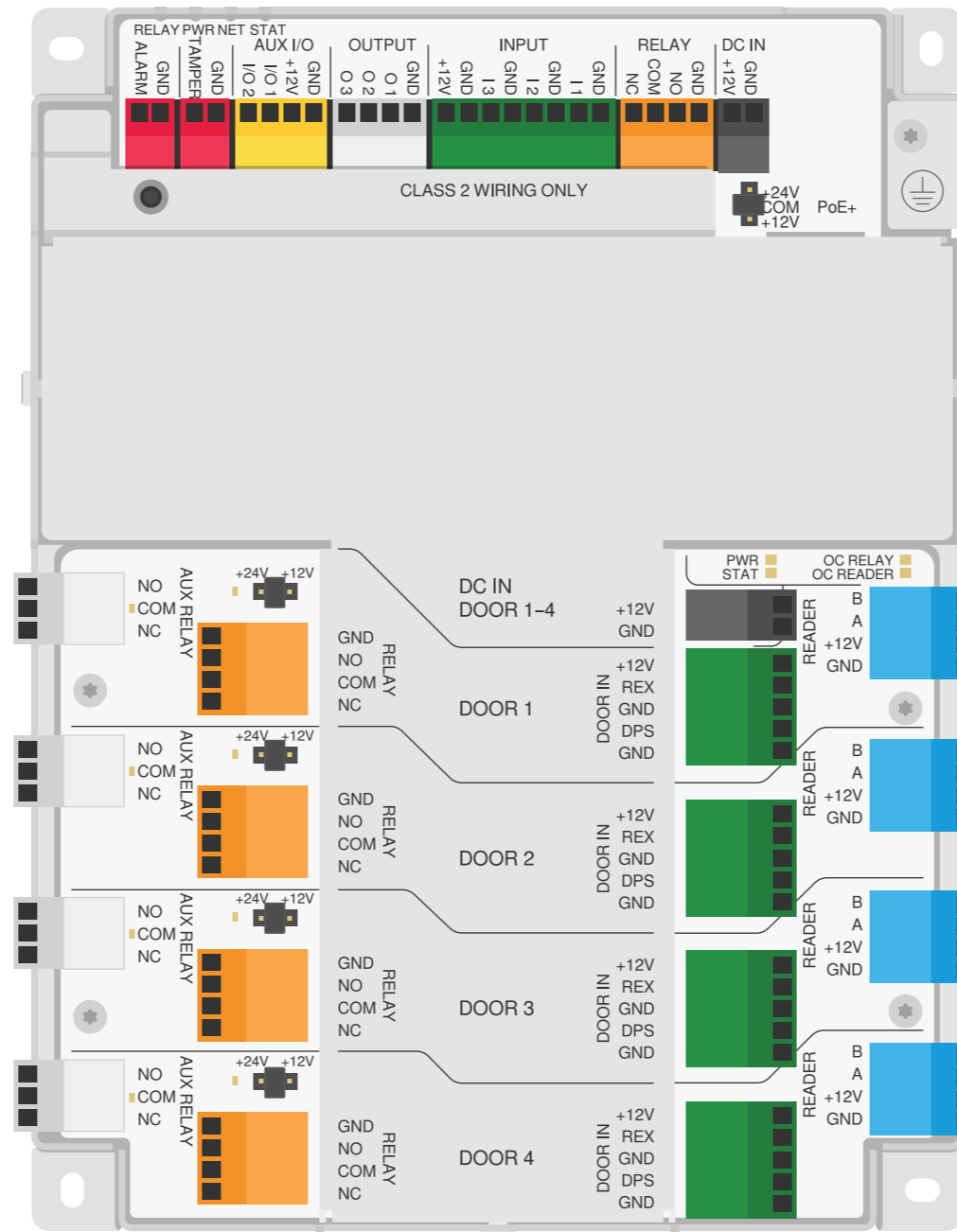
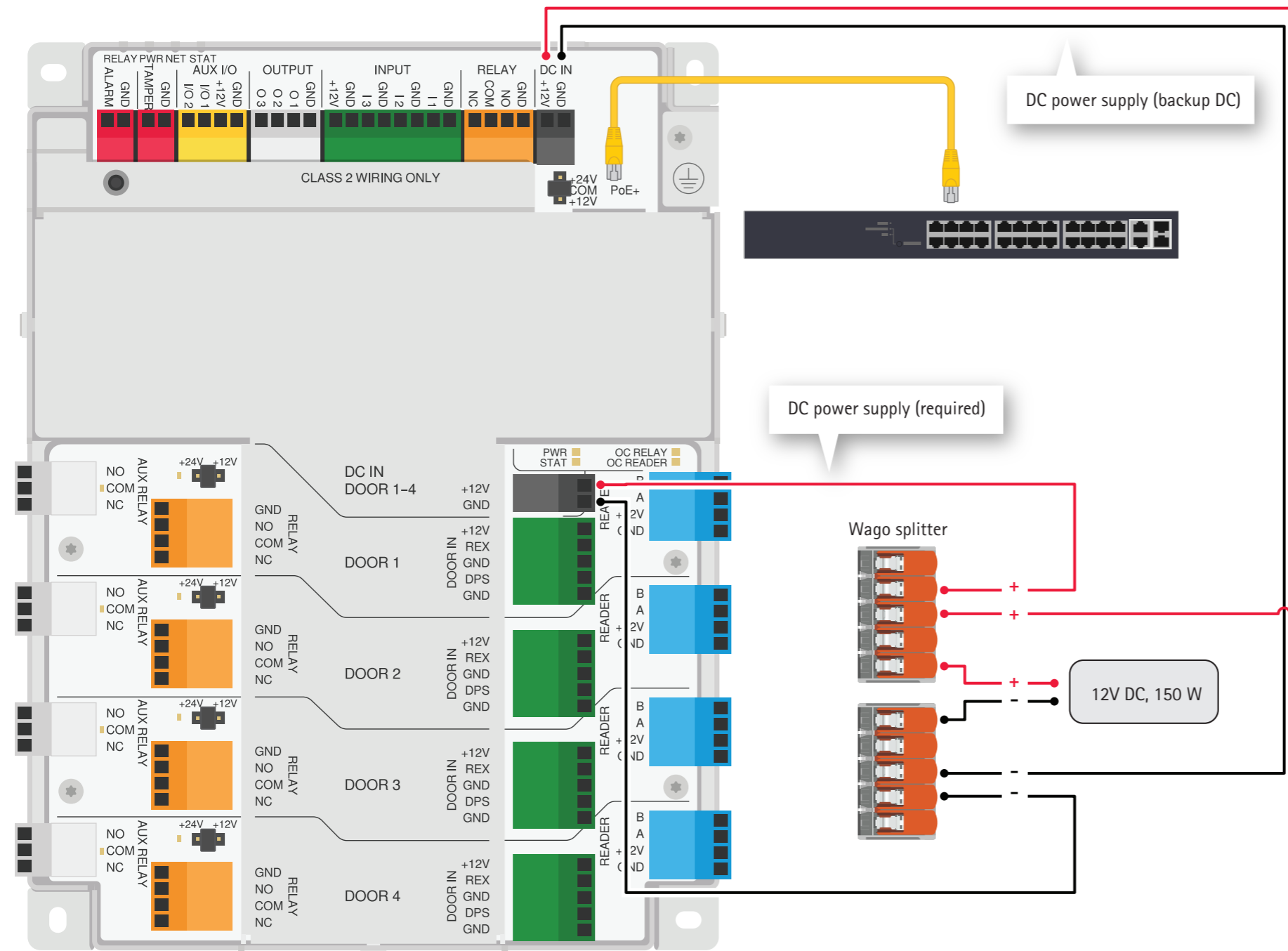


AXIS A1710-B Network Door Controller



Electrical wiring drawings

Power supply – Class 3 installation



Application

Door 1-4 require separate power

Requirements

- > Class 3 power supply: Split the power using Wago splitters*
 - > Main/Door 1-4: 150 W shared**

*included in the product box
 **to fulfill the power budget for door peripherals

- > Wiring:
 - > DC AWG 16-14

Considerations

- > PoE Class 3 or PoE Class 4

Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, 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.

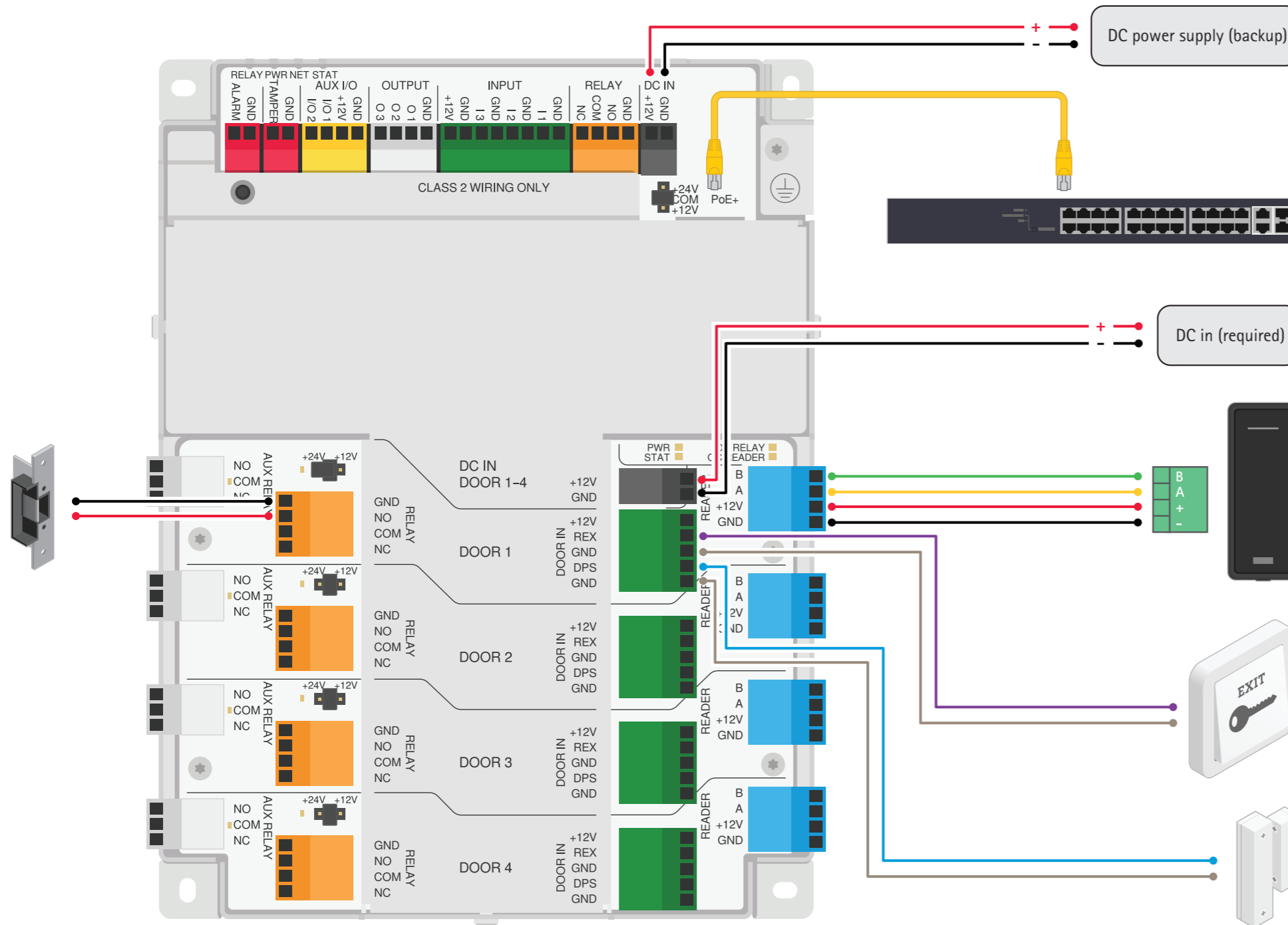
Standard one door installation

Application

Standard one-door installation with configuration in AXIS Camera Station

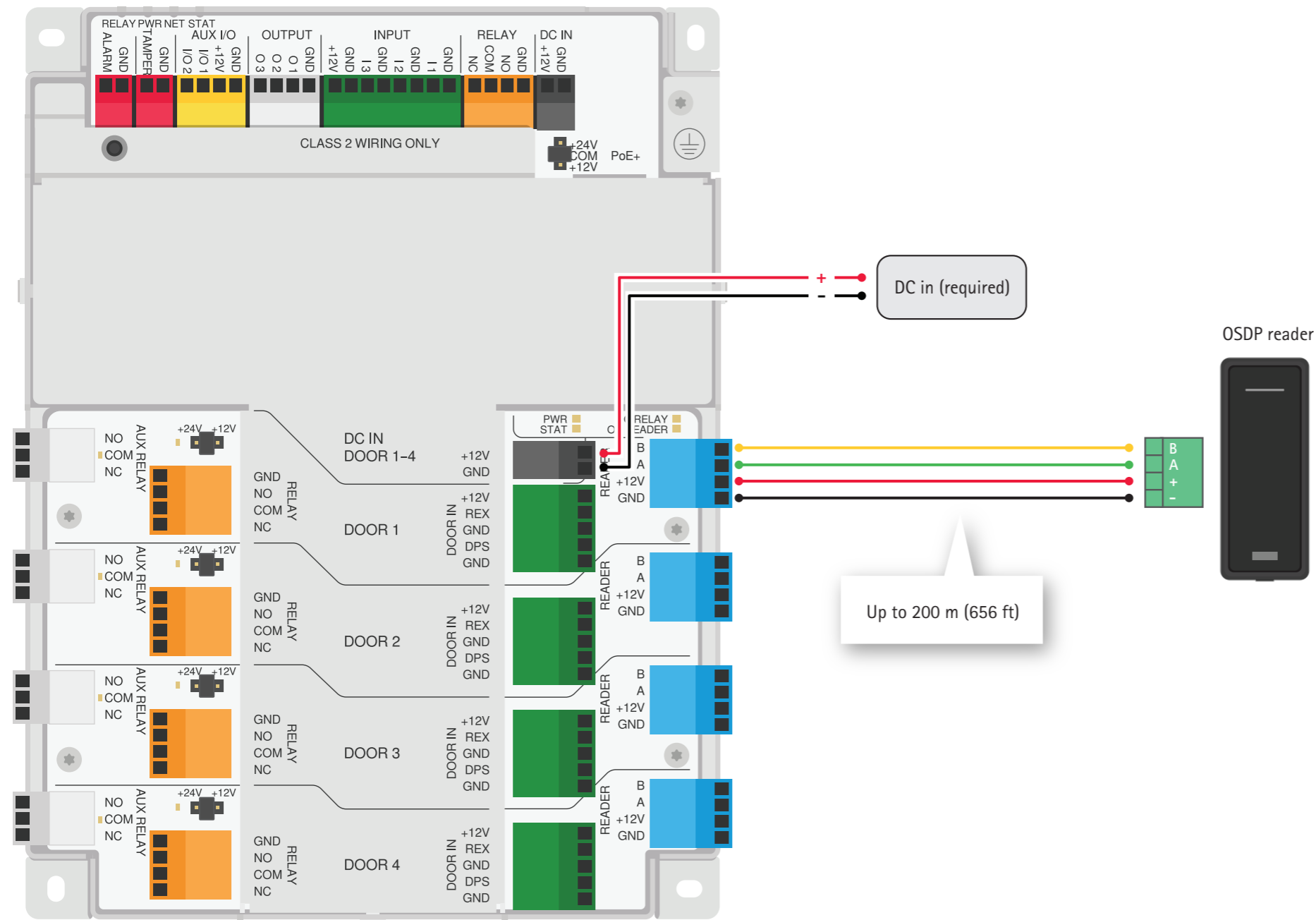
Considerations

- > 12 V or 24 V fail-secure lock
- > PoE Class 3 or PoE Class 4
- > All peripheral consumption within the controller's power budget



Adhere to local life safety code in all installations.
 Illustration does not depict 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.

OSDP reader – powered by the controller



Application

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

Requirements

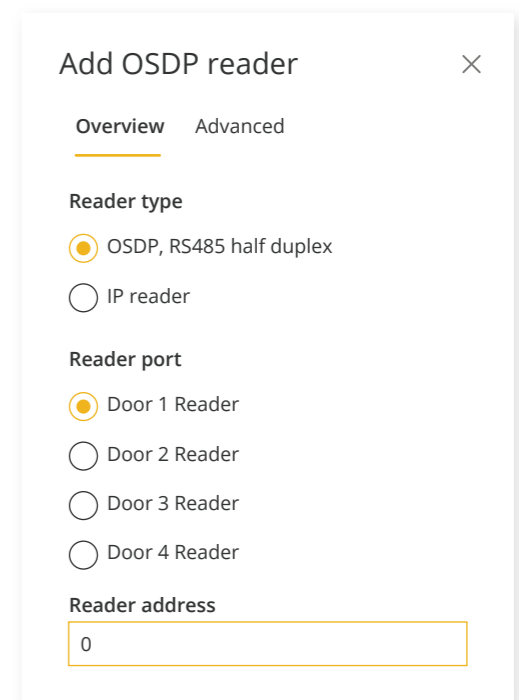
- > Reader wiring:
- > AWG 22-14

Considerations

- > DC power on door section required
- > All peripheral consumption within the controller's power budget

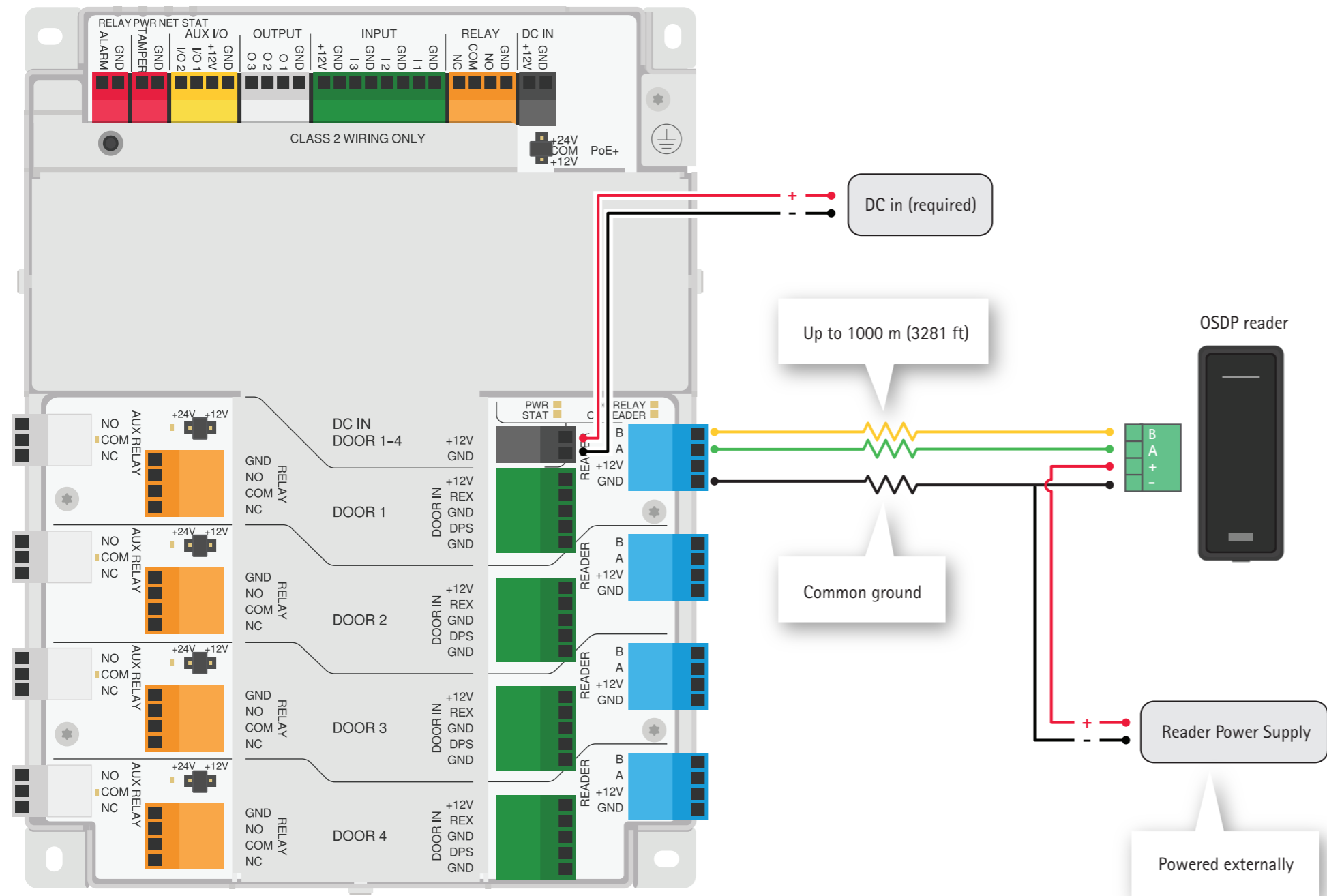
AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Select the relevant reader



Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, 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.

OSDP reader – powered externally



Application

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

Requirements

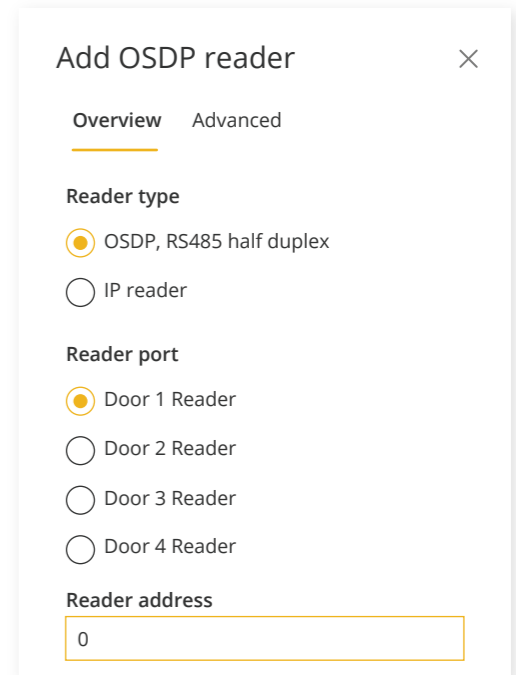
- > Reader powered externally, not by controller
- > Reader wiring: RS485
 - > Twisted pair
 - > AWG 26-14
 - > 120 ohm impedance

Considerations

- > DC power on door section required
- > All peripheral consumption within the controller's power budget

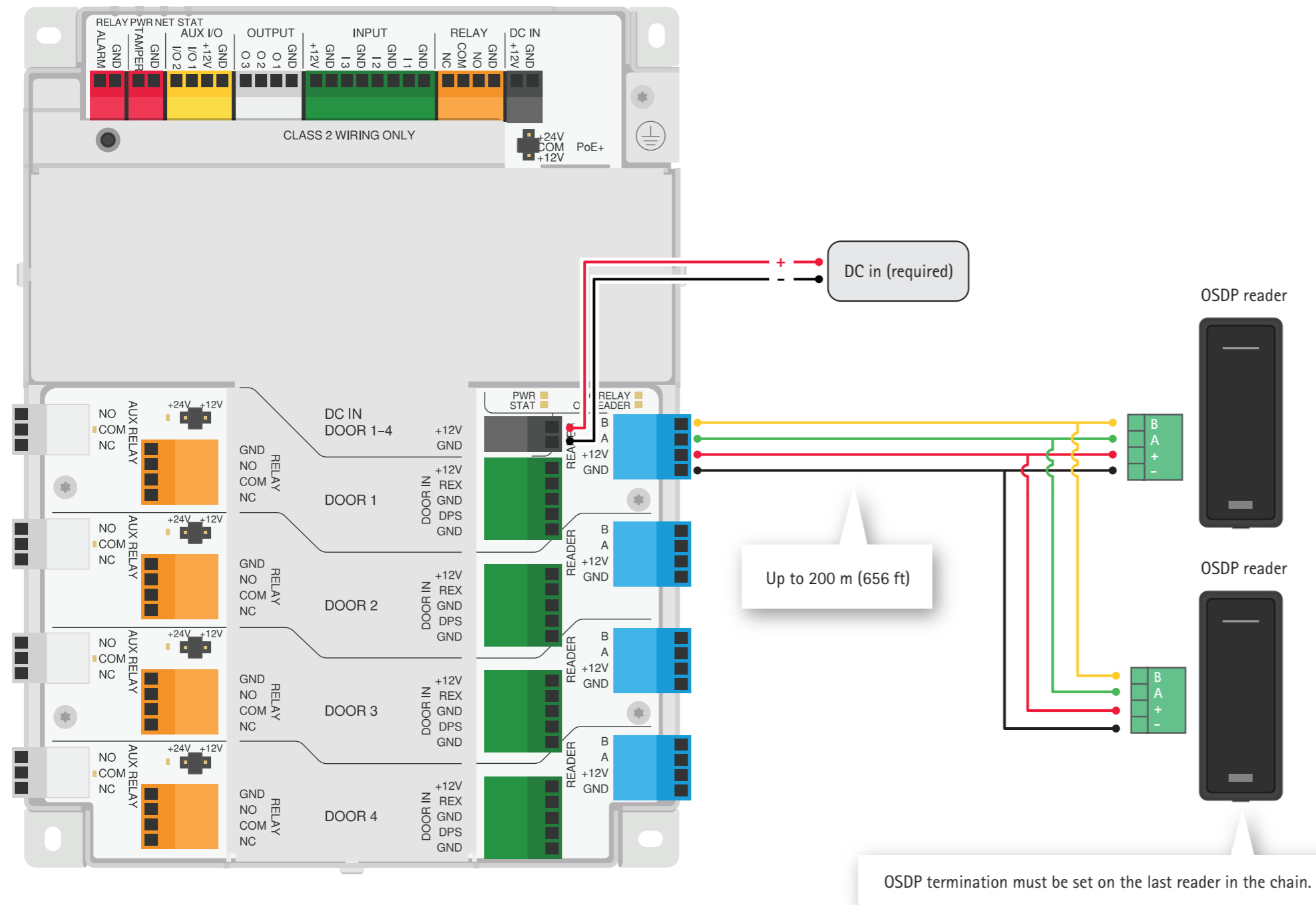
AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Select the relevant reader



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.

OSDP reader – multi-drop



Application

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

Requirements

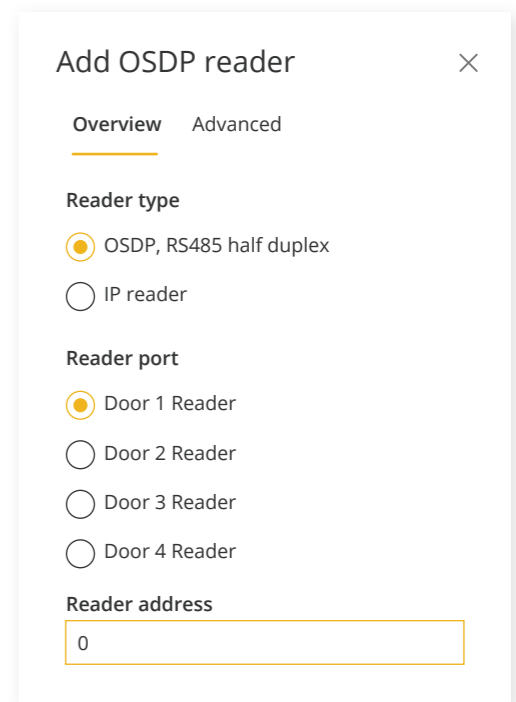
- > Reader wiring:
 - > AWG 22-14

Considerations

- > DC power on door section required
- > All peripheral consumption within the controller's power budget

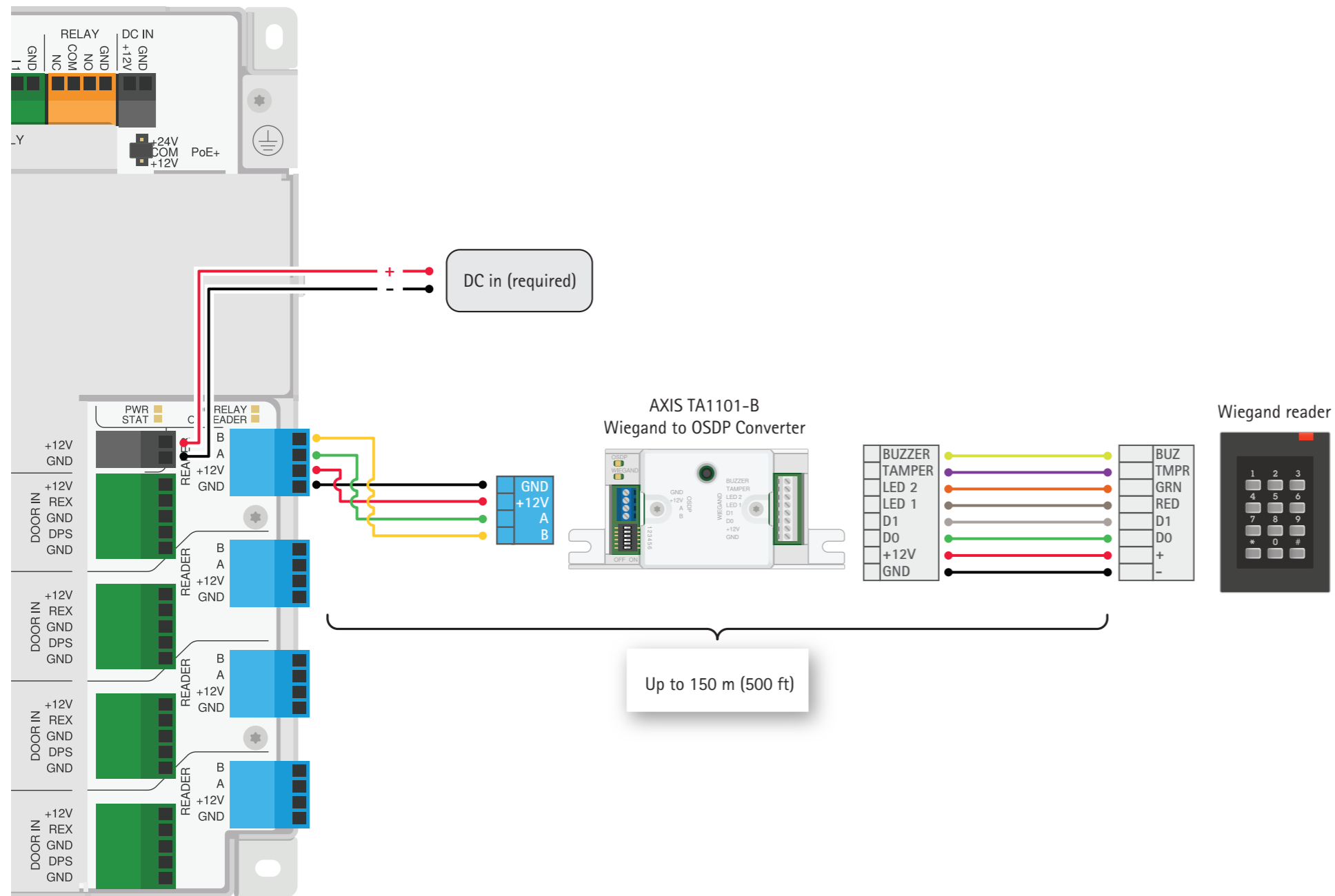
AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Select the relevant reader
4. Set the address on the DIP switch and add address in the Reader address field.



Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, 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.

Wiegand reader – powered by the controller



Application

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

Requirements

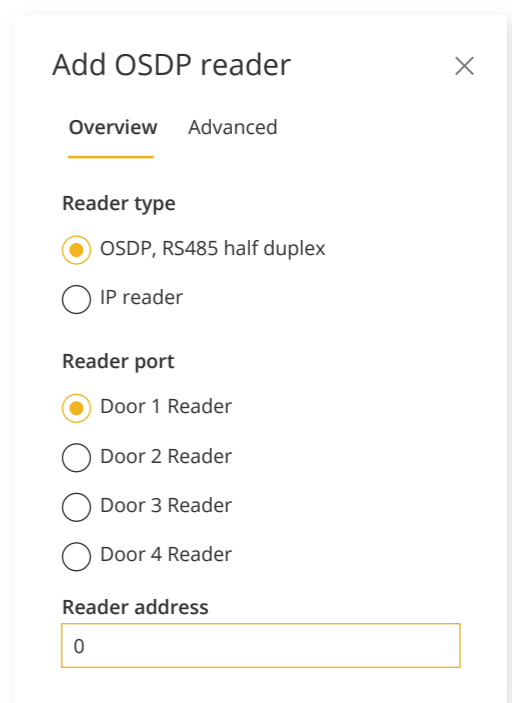
- > AXIS TA1101-B unit required
- > AXIS TA1101-B wiring:
 - > AWG 22-16

Considerations

- > DC power on door section required
- > All peripheral consumption within the controller's power budget

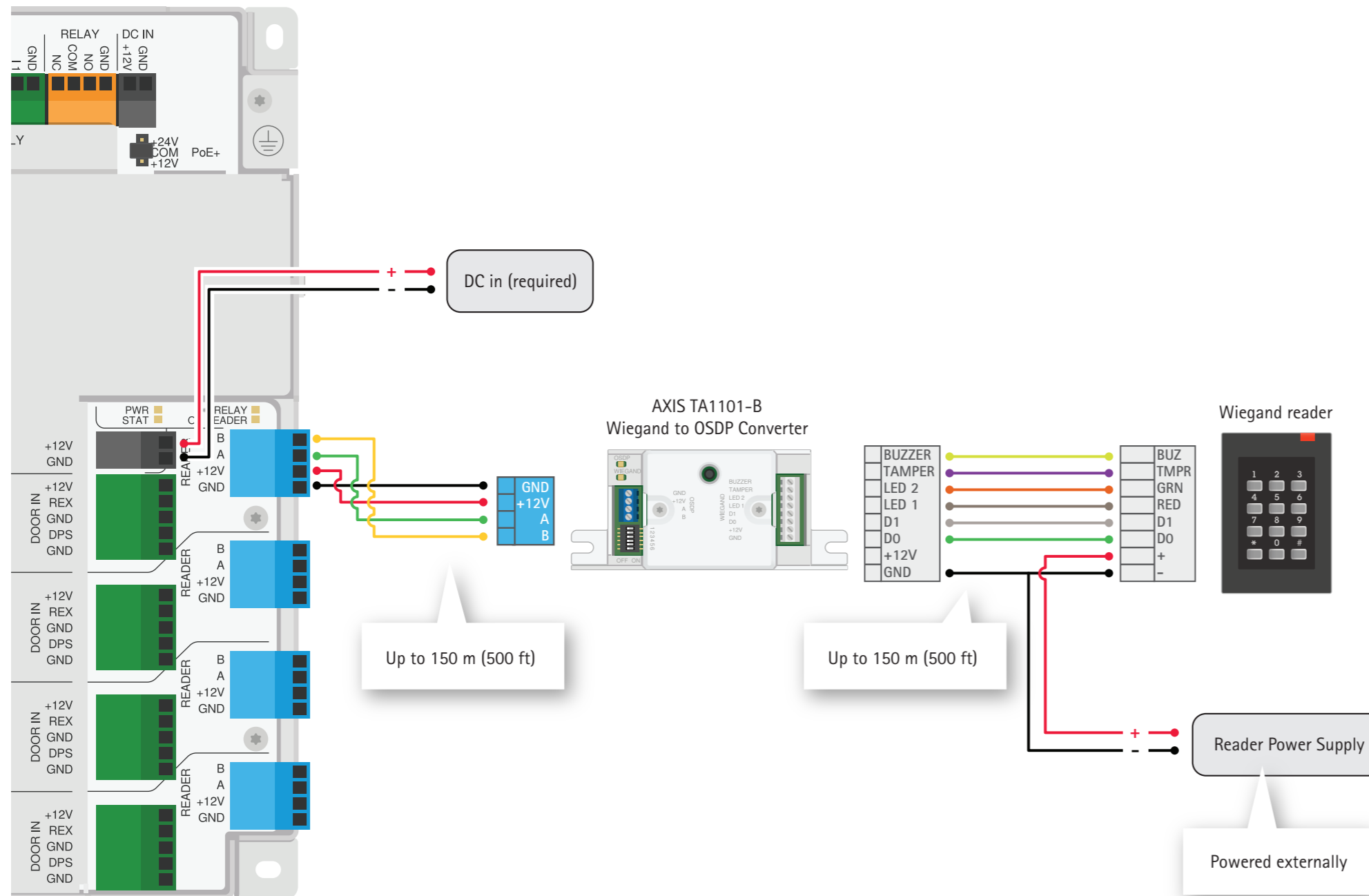
AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Select the relevant reader



Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, 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.

Wiegand reader – powered externally



Application

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

Requirements

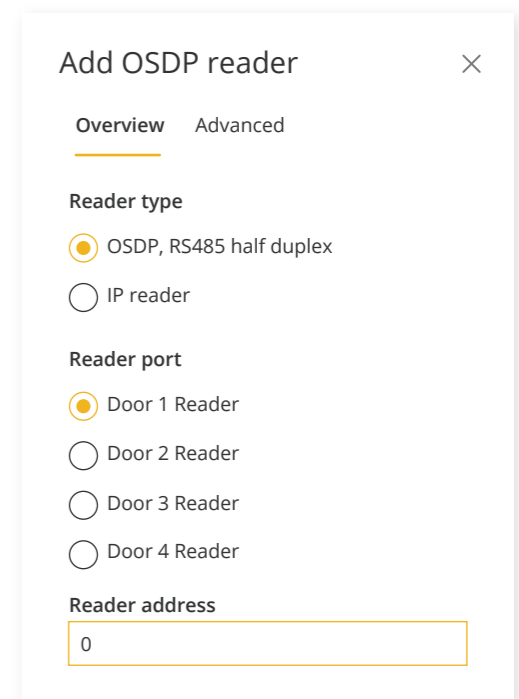
- > Reader powered externally, not by controller
- > AXIS TA1101-B unit required
- > AXIS TA1101-B wiring:
 - > AWG 22-16

Considerations

- > DC power on door section required
- > All peripheral consumption within the controller's power budget

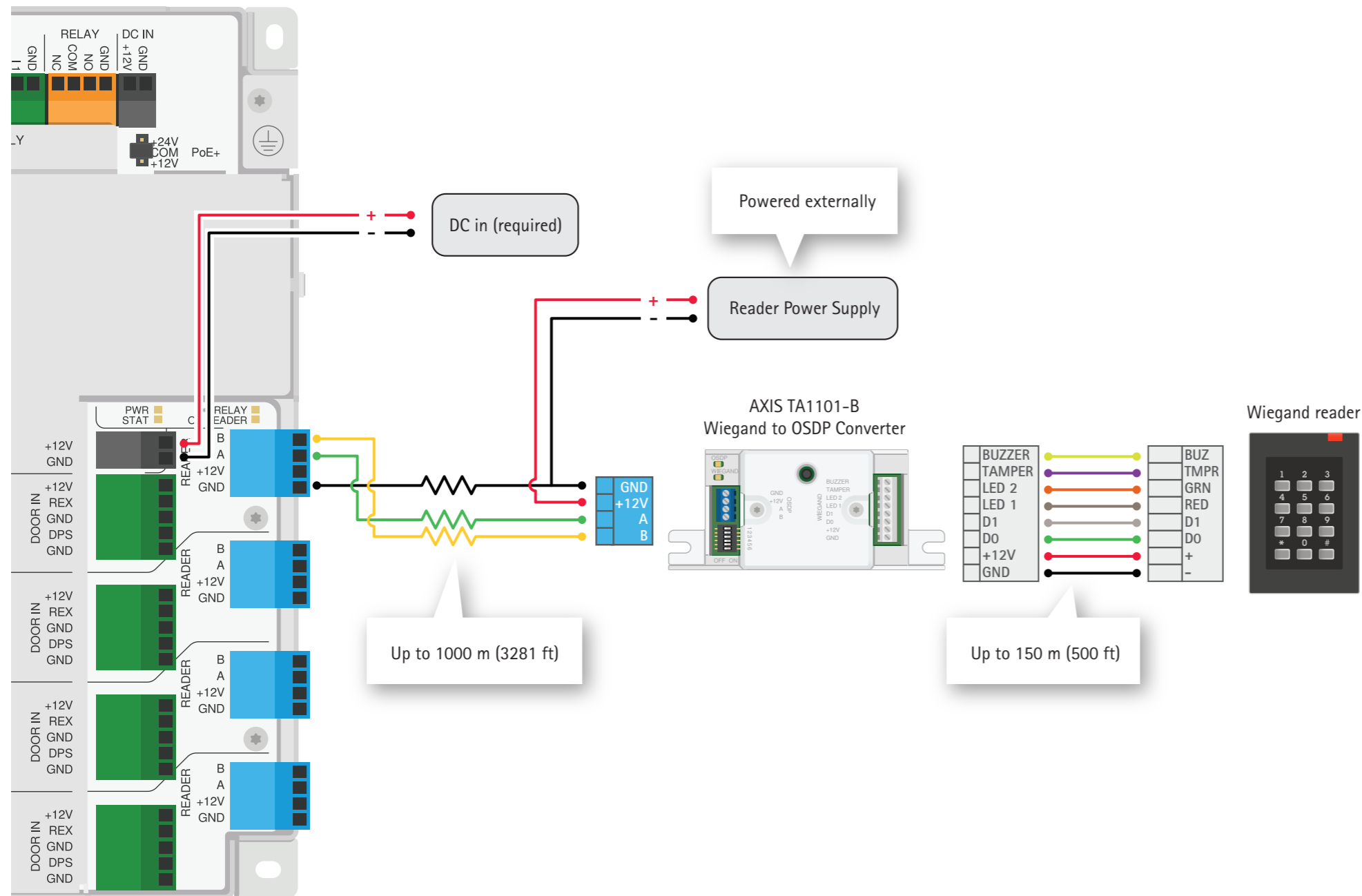
AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Select the relevant reader



Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, 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.

Wiegand reader – powered externally, long cable



Application

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

Requirements

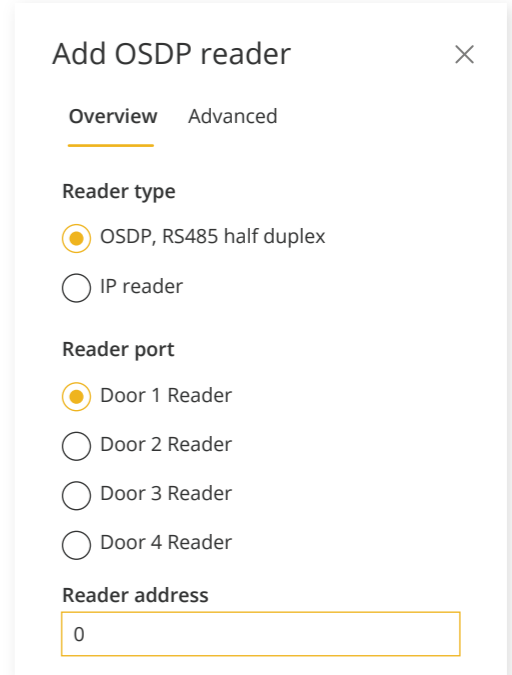
- > Reader powered externally, not by controller
- > AXIS TA1101-B unit required
- > AXIS TA1101-B wiring:
 - > AWG 22-16

Considerations

- > DC power on door section required
- > All peripheral consumption within the controller's power budget
- > We recommend connecting AXIS TA1101-B closer to the controller or closer to the reader

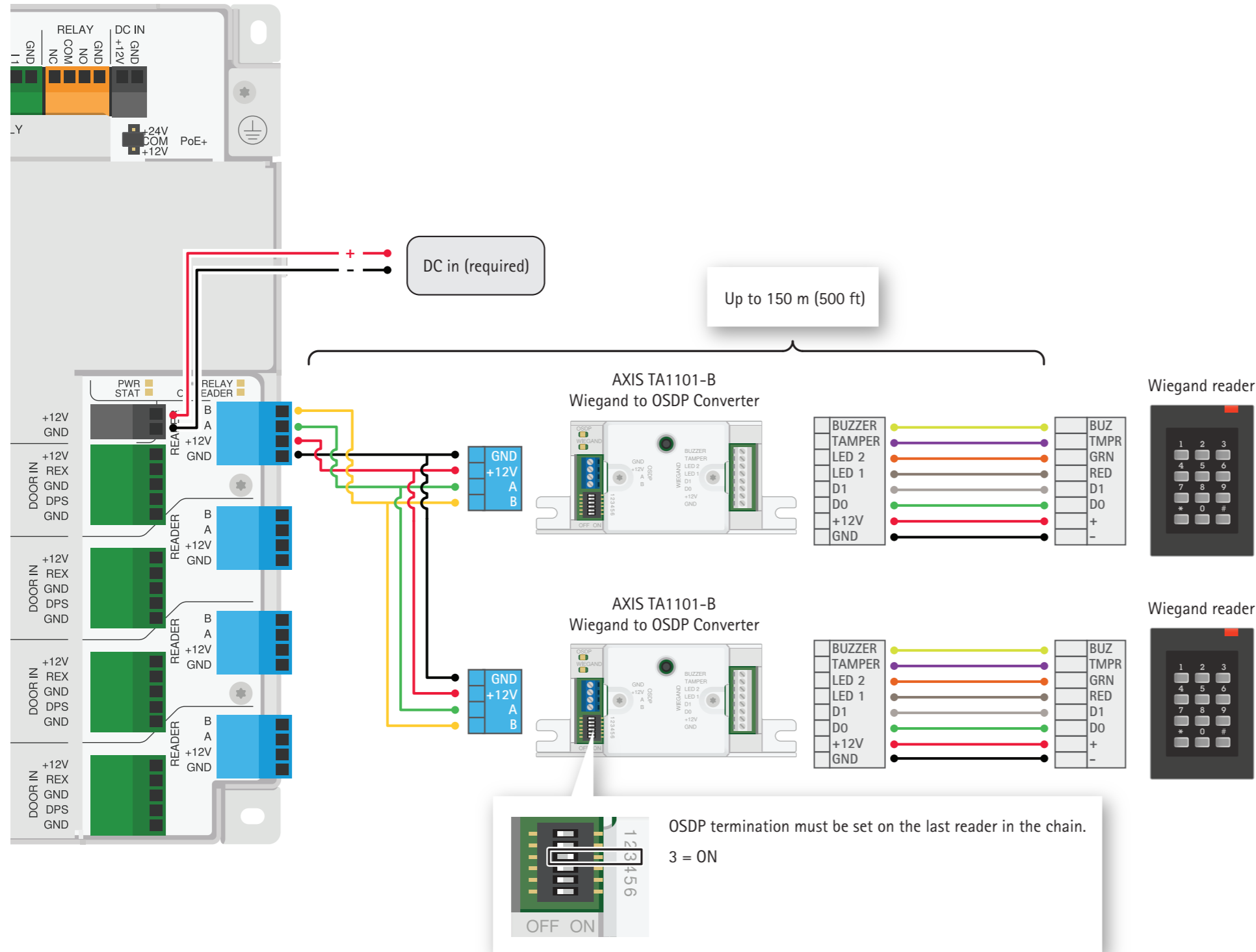
AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Select the relevant reader



Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, 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.

Wiegand reader – multi-drop



Application

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

Requirements

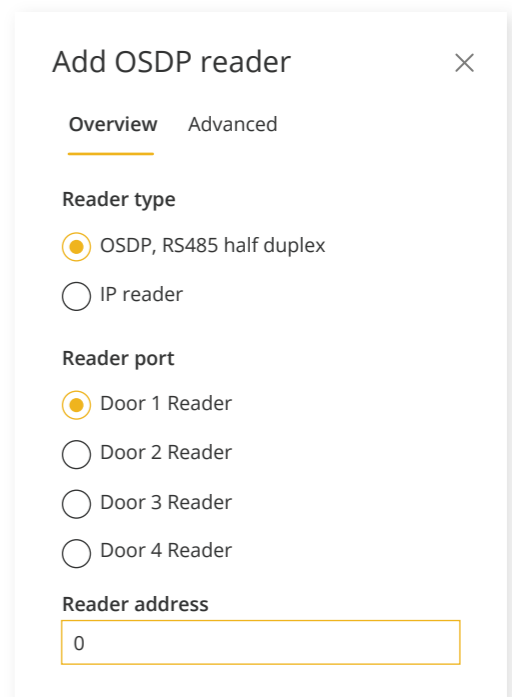
- > AXIS TA1101-B unit required
- > AXIS TA1101-B wiring:
 - > AWG 22-16

Considerations

- > DC power on door section required
- > 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 the relevant reader
4. Set the address on the DIP switch and add address in the Reader address field.



Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, 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.

Wiegand and OSDP reader – multi-drop

Application

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

Requirements

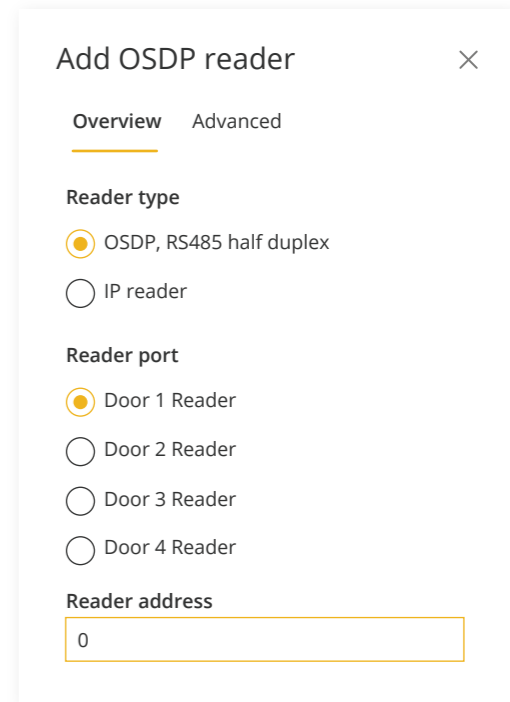
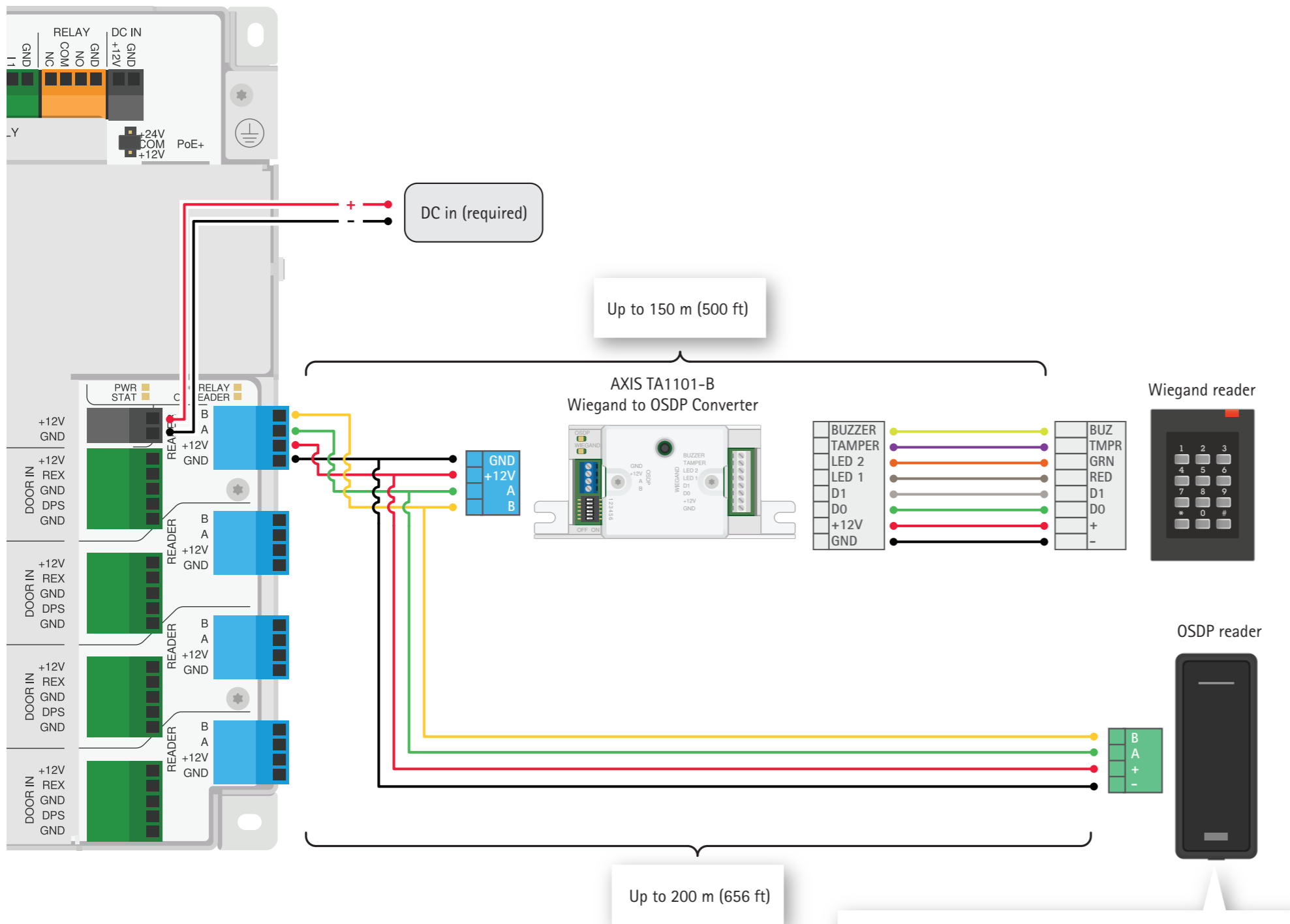
- > AXIS TA1101-B unit required
- > AXIS TA1101-B wiring:
 - > AWG 22-16
- > OSDP reader wiring:
 - > AWG 22-14

Considerations

- > DC power on door section required
- > All peripheral consumption within the controller's power budget

AXIS Camera Station configuration

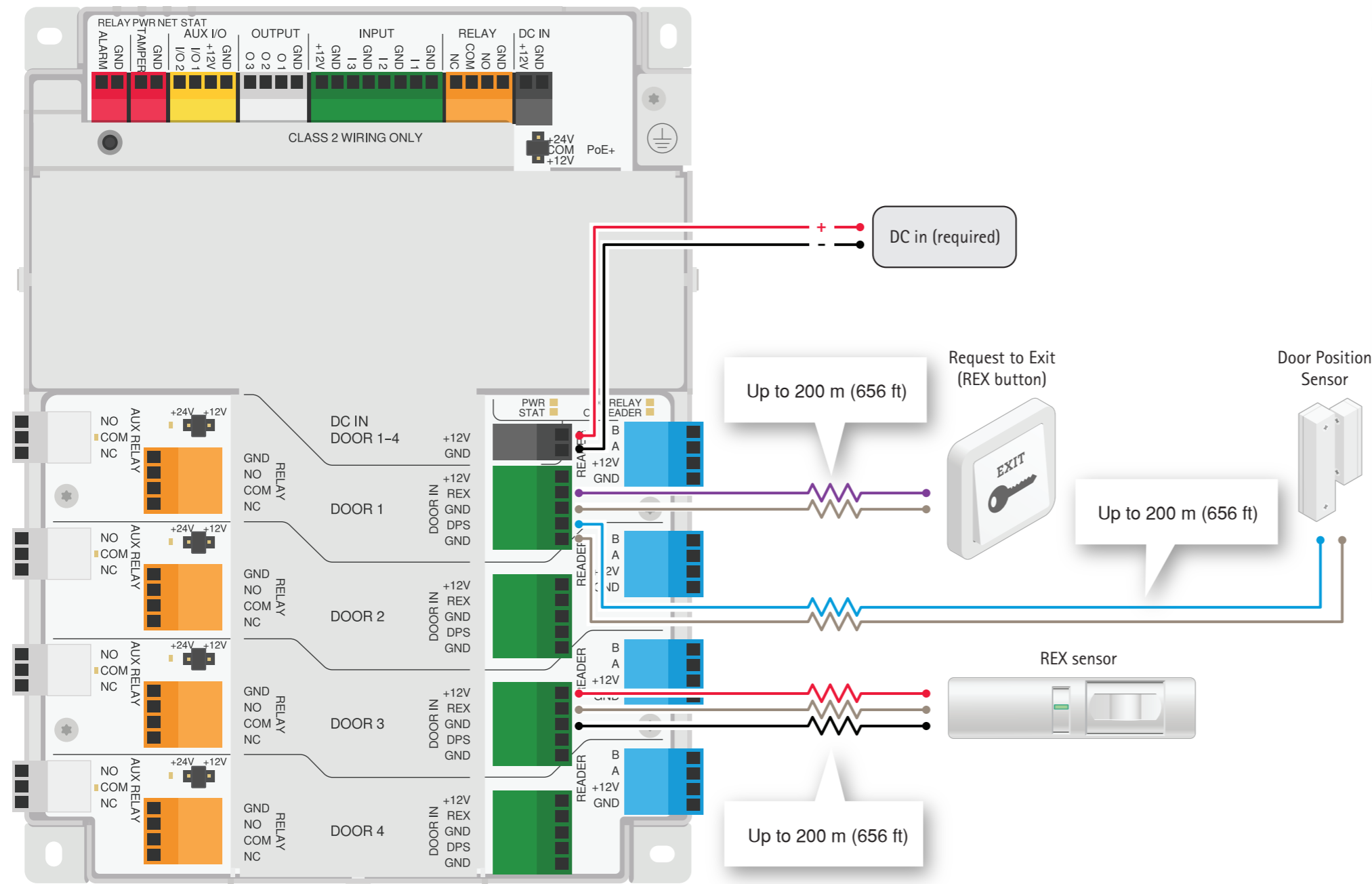
1. Add a door
2. Connect to a door controller
3. Select the relevant reader
4. Set the address on the DIP switch and add address in the Reader address field.



OSDP termination must be set on the last reader in the chain.

Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, 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 for door inputs



Requirements

- > Wiring:
 - > AWG 24-14

Considerations

- > REX sensor: Door 1-4 combined 400 mA at 12V DC

AXIS Camera Station configuration

1. Add a door
2. Connect to a door controller
3. Add a door position sensor and assign it to DPS 1

Add door position sensor ✕

Connected to

Door 1 DPS

5. Add a REX device on door side B and assign it to REX 1

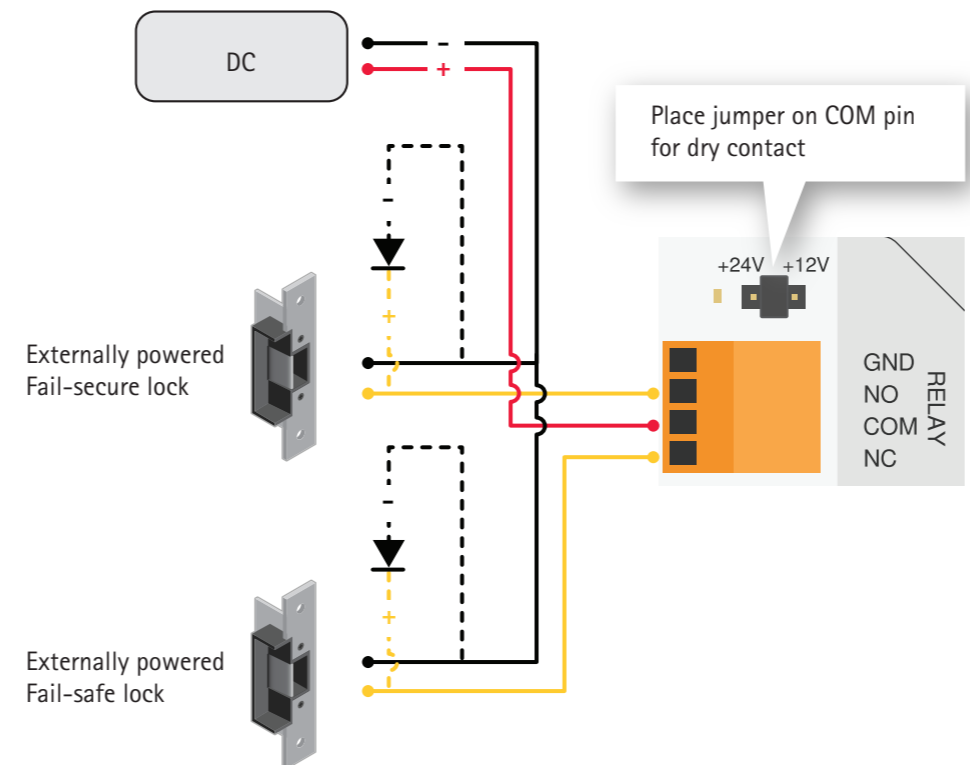
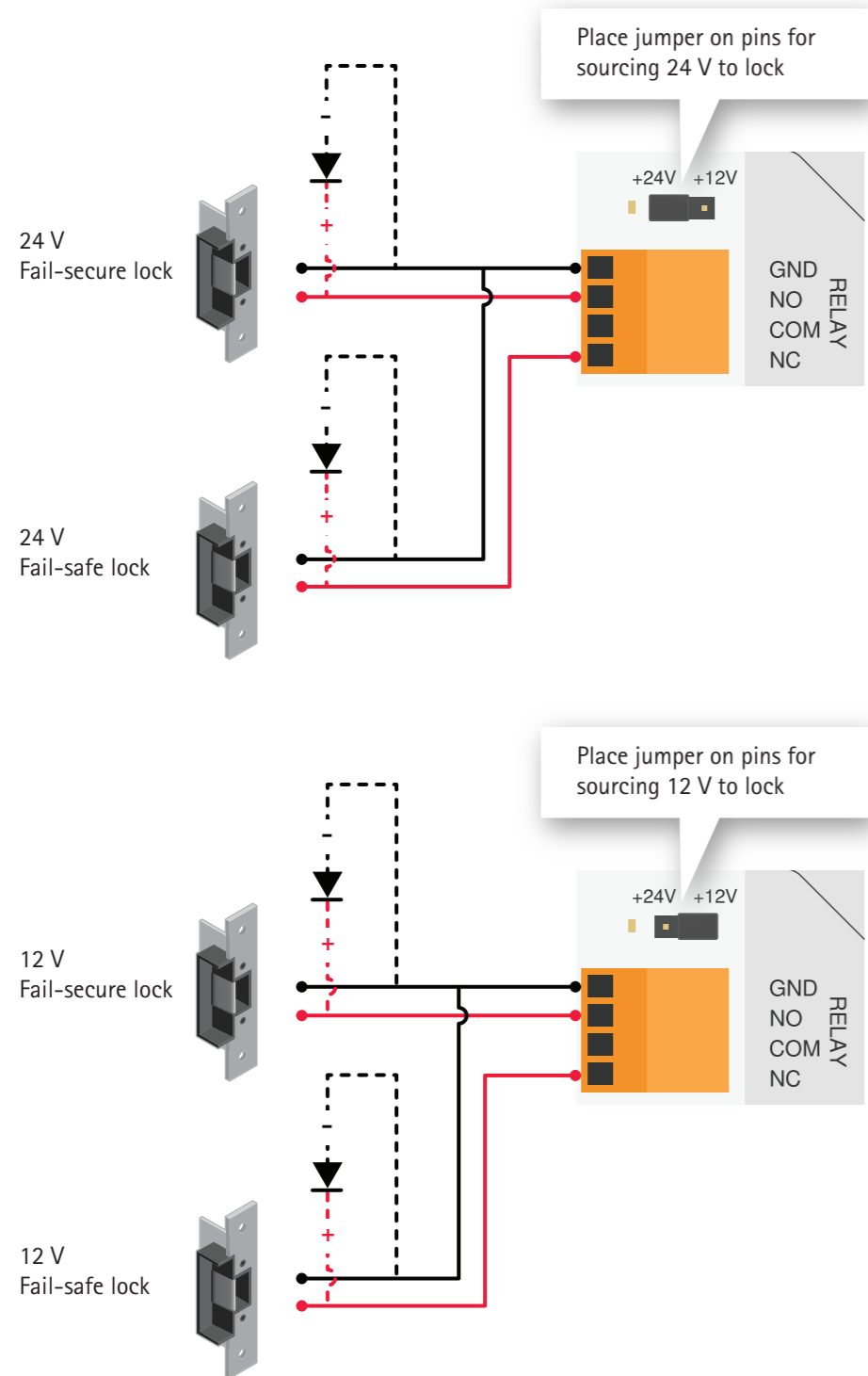
Add REX device ✕

Connected to

Door 1 REX

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.

Door relay



Application

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

Requirements

- > Door relay 1-4:
 - > 3.8 A combined at 12 V DC
 - > 1.5 A combined at 24 V DC
- > Dry:
 - > 4 A at 30 V DC
- > Wiring:
 - > AWG 16-14

Considerations

- > 12 V or 24 V fail-secure or fail-safe lock
- > If the lock is non-polarized, we recommend you to add an external flyback diode.

AXIS Camera Station configuration

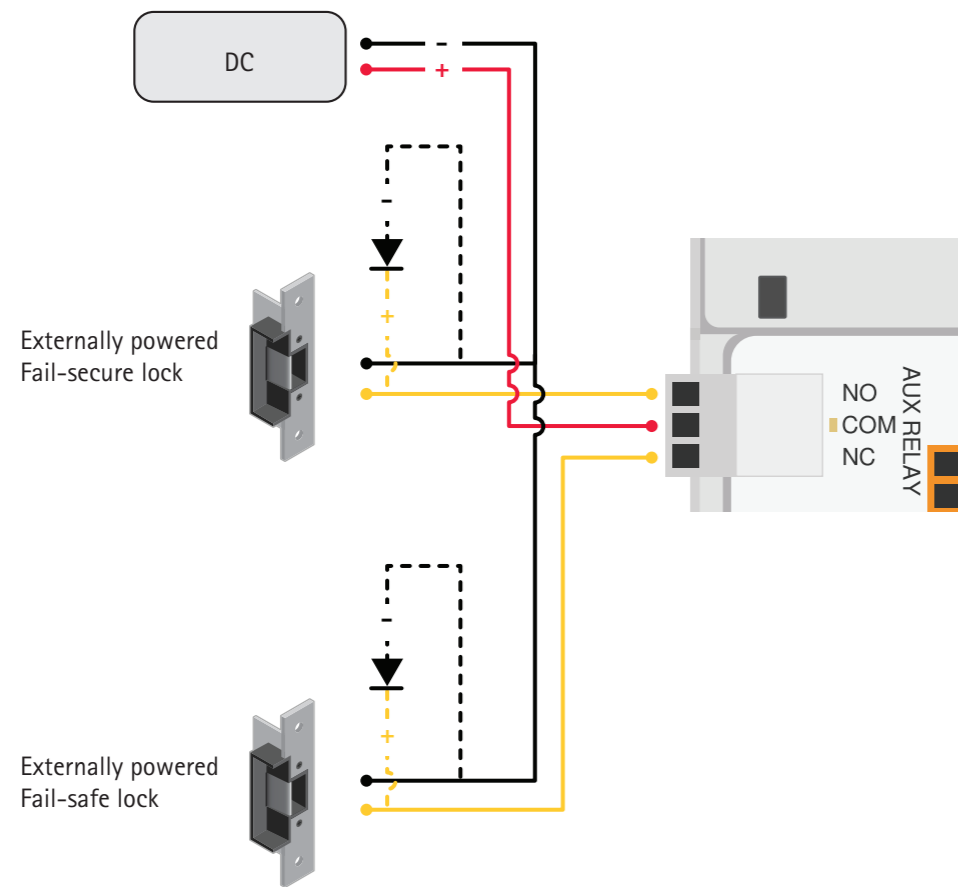
1. Add a door
2. Connect to a door controller
3. Select Relay 1 for the first lock

Primary lock

Door 1 Relay

Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, 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.

AUX relay



Application

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

Requirements

- > AUX relay:
 - > 2 A at 30 V DC
- > Wiring:
 - > AWG 16-14

Considerations

- > Externally powered fail-secure or fail-safe lock
- > If the lock is non-polarized, we recommend you to add an external flyback diode.

AXIS Camera Station configuration

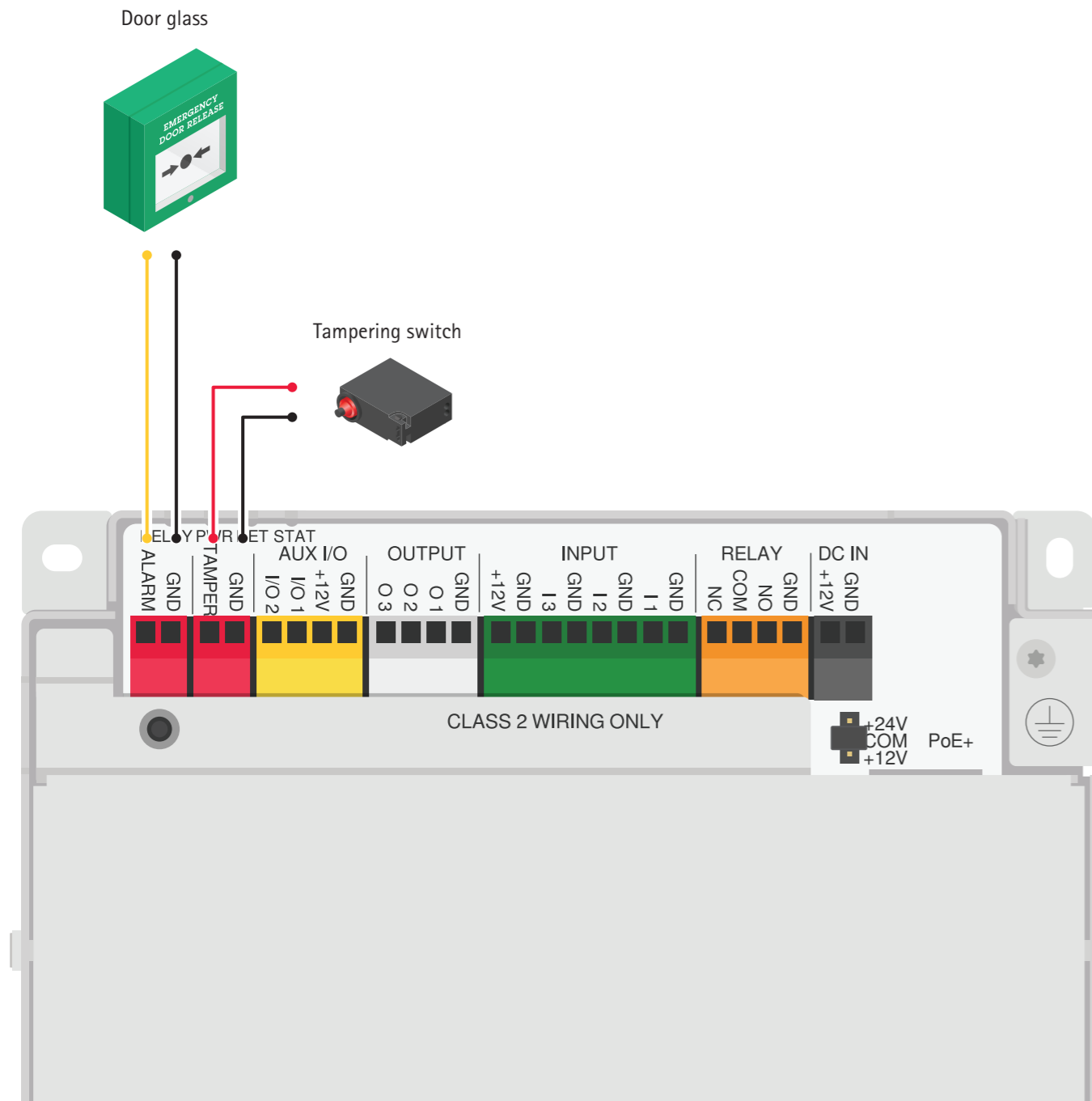
1. Add a door
2. Connect to a door controller
3. Select AUX Relay 1 for the primary or secondary lock

Secondary lock

Door 1 AUX Relay

Adhere to local life safety code in all installations.
Illustration does not depict door monitors, REX devices, locks, 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.

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

Add Emergency input ✕

Emergency state

Circuit is open

Circuit is closed

Debounce time (ms)

Emergency action

Unlock door

Lock door

Adhere to local life safety code in all installations.
 Illustration does not depict door monitors, REX devices, locks, 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.