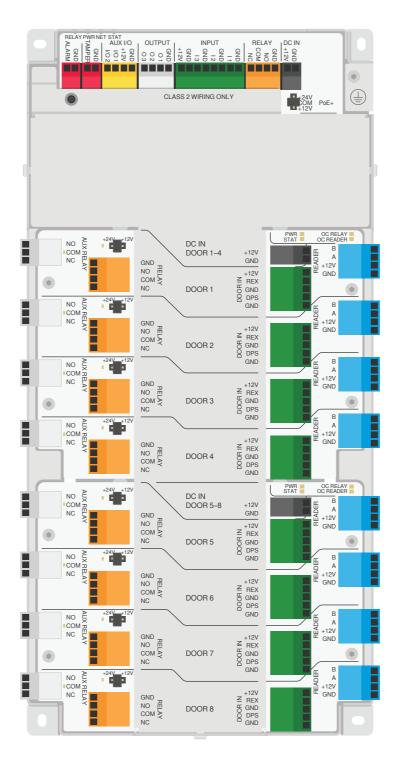
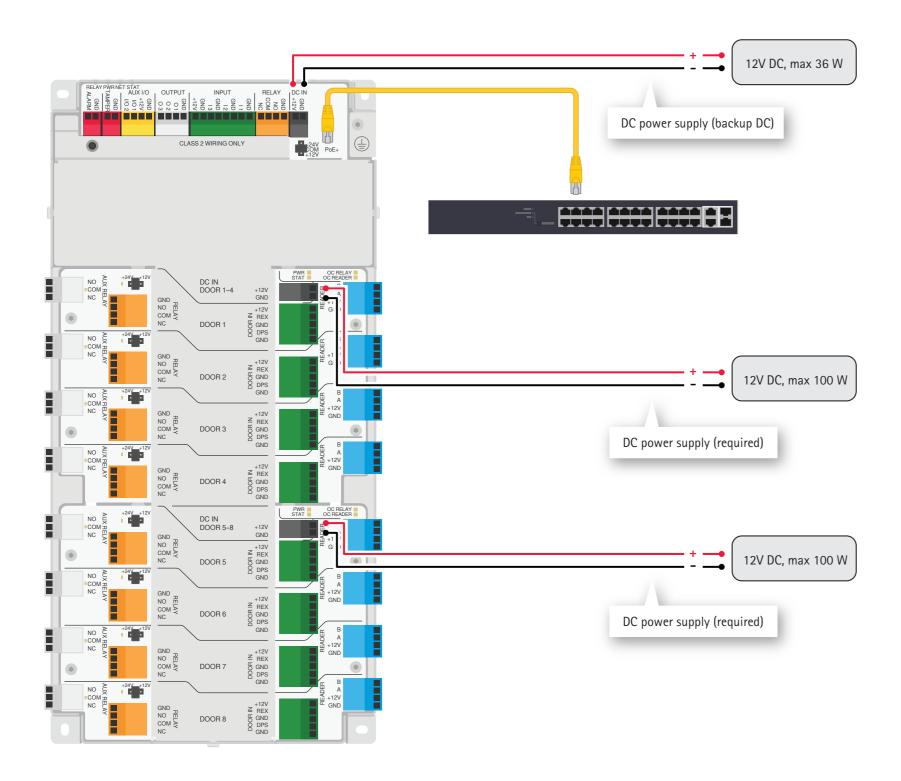


## **AXIS A1810-B Network Door Controller**



## Power supply - Class 2 installation



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.

## Application

Door 1-4 and Door 5-8 require separate power

### Requirements

- > Class 2 power supply: Separate power
  - > Main: max 36 W
  - > Door 1-4: max 100 W\*
  - > Door 5-8: max 100 W\*

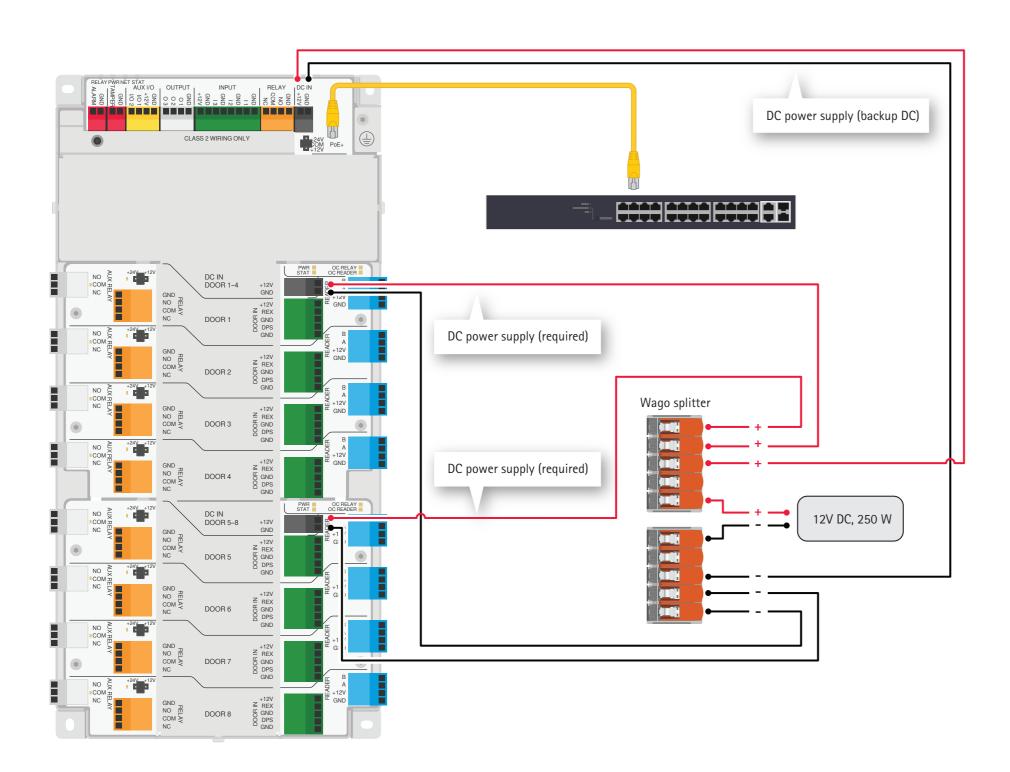
\*to fullfill the power budget for door peripherals

- > Wiring:
  - > DC AWG 16-14

#### Considerations

> PoE Class 3 or PoE Class 4

## Power supply - Class 3 installation



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.

## Application

Door 1-4 and Door 5-8 require separate power

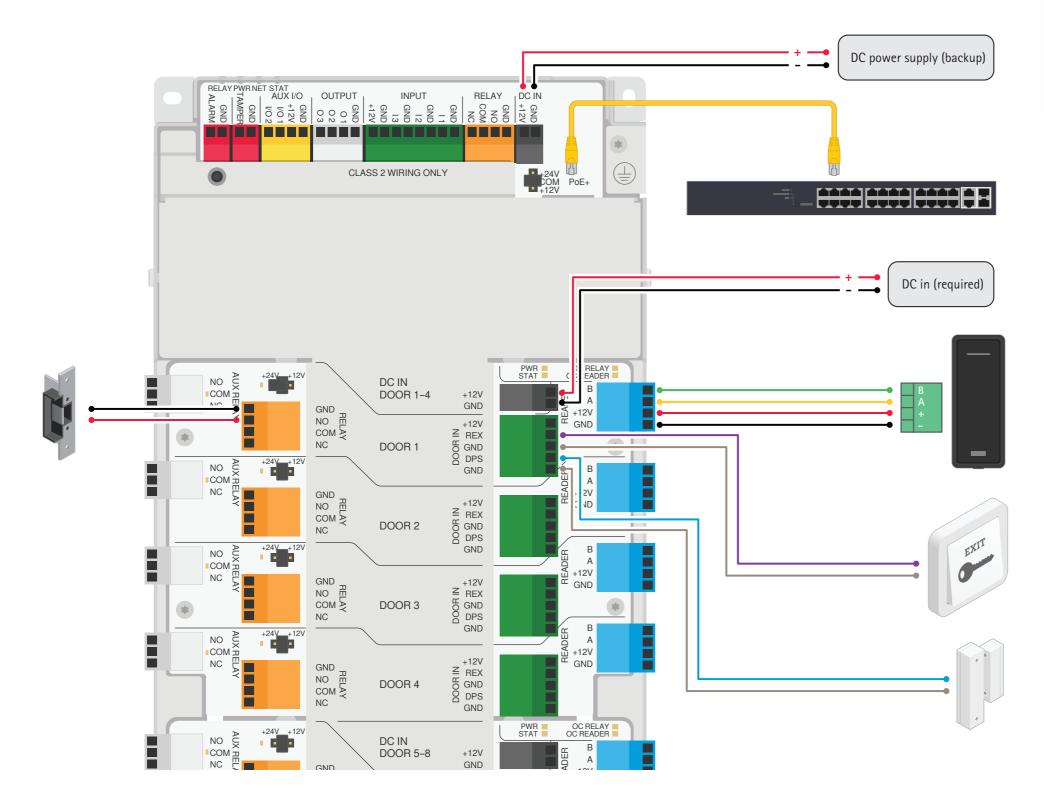
## Requirements

- > Class 3 power supply: Split the power using Wago splitters\*
- > Main/Door 1-4/Door 5-8: 250 W shared\*\*
- \*included in the product box
- \*\*to fullfill the power budget for door peripherals
- > Wiring:
  - > DC AWG 16-14

#### Considerations

> PoE Class 3 or PoE Class 4

## Standard one door installation



## Application

Standard one-door installation with configuration in AXIS Camera Station

#### Considerations

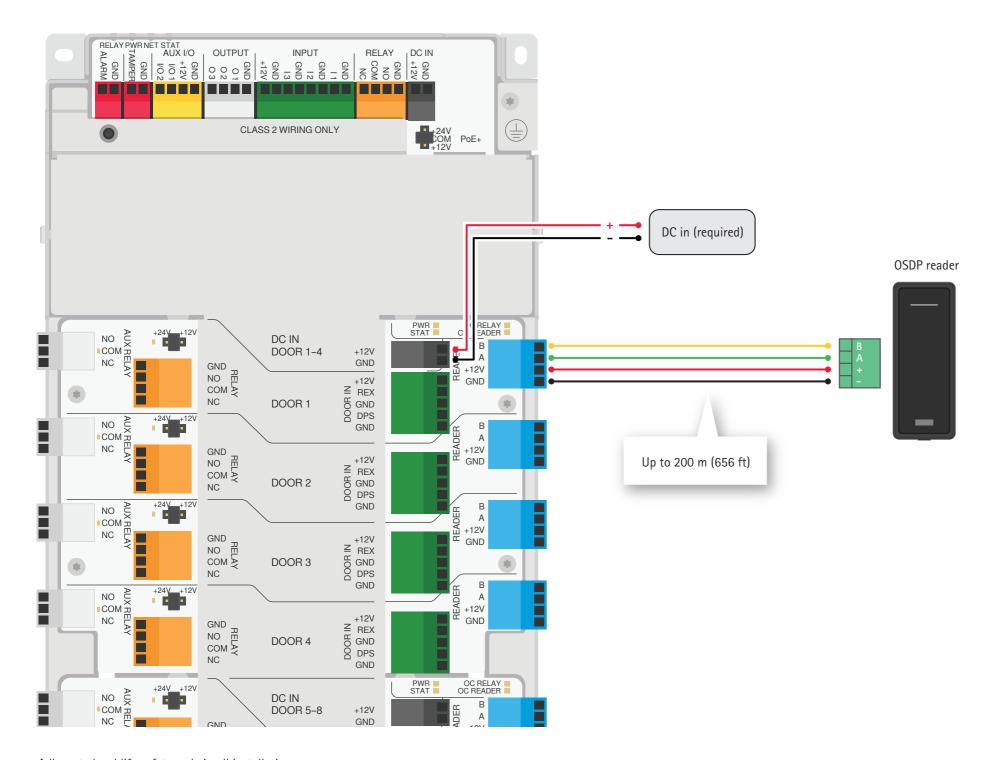
- > 12 V or 24 V fail-secure lock
- > PoE Class 3 or PoE Class 4
- > All peripheral consumption within the controller's power budget

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.

## OSDP reader – powered by the controller



### Application

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

#### Requirements

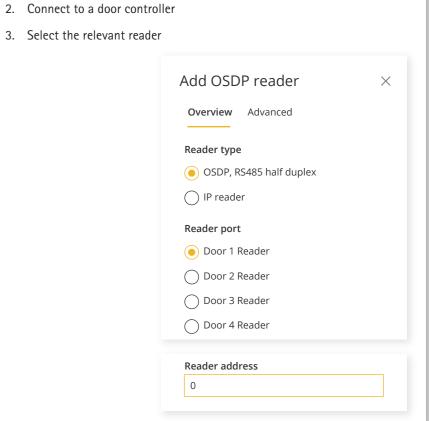
- > Reader wiring:
  - > AWG 22-14

#### Considerations

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

## **AXIS** Camera Station configuration

- Add a door
- 3. Select the relevant reader

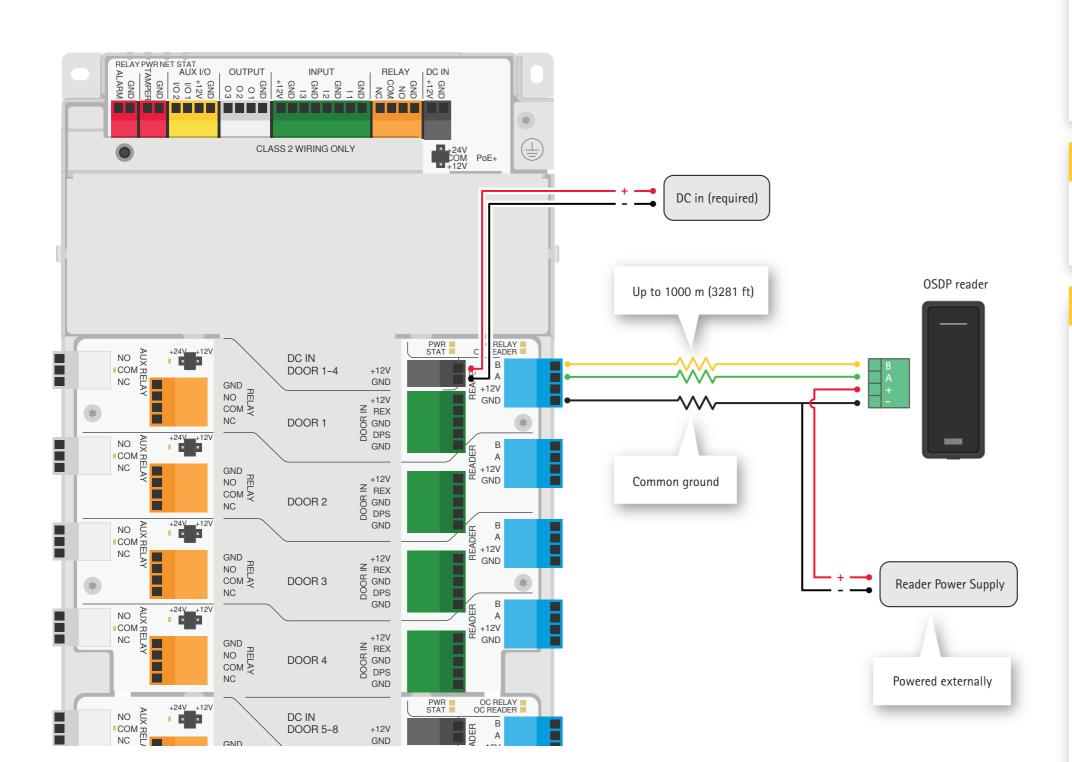


Adhere to local life safety code in all installations.

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.

## OSDP reader - powered externally



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.

### Application

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

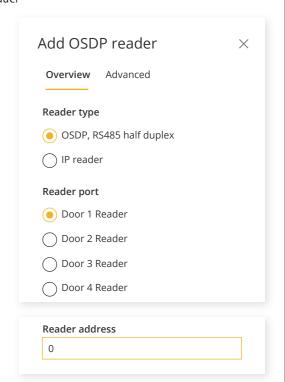
### Requirements

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

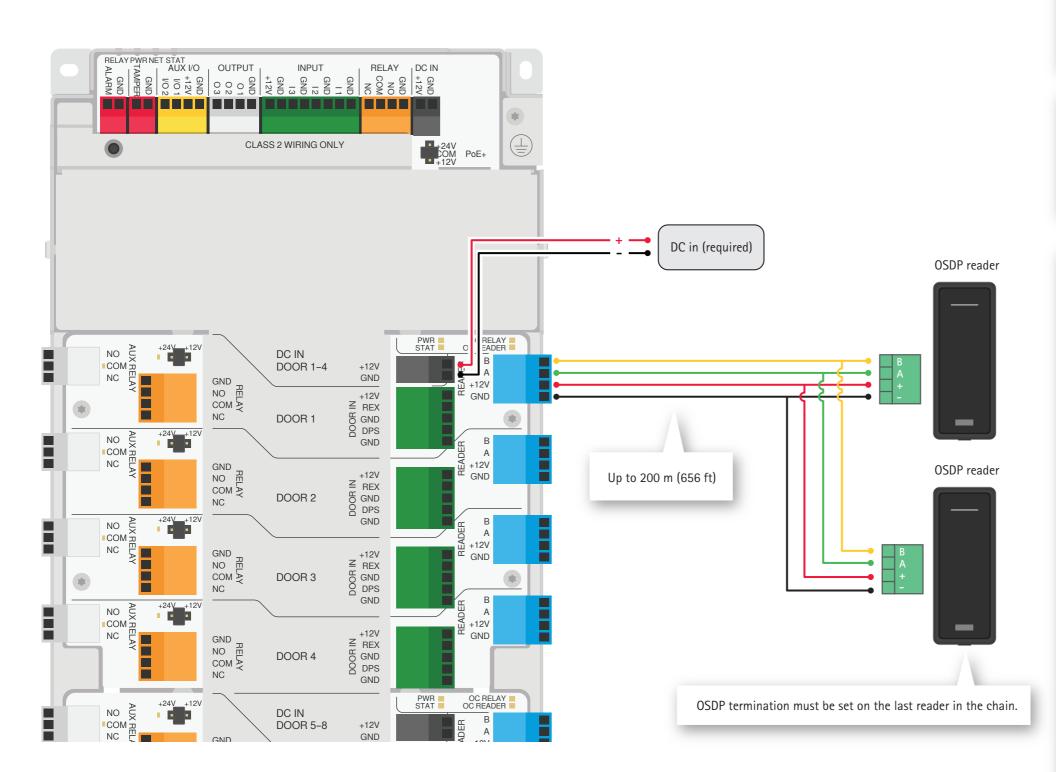
#### Considerations

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

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



## OSDP reader – multi-drop



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.

### Application

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

#### Requirements

- > Reader wiring:
  - > AWG 22-14

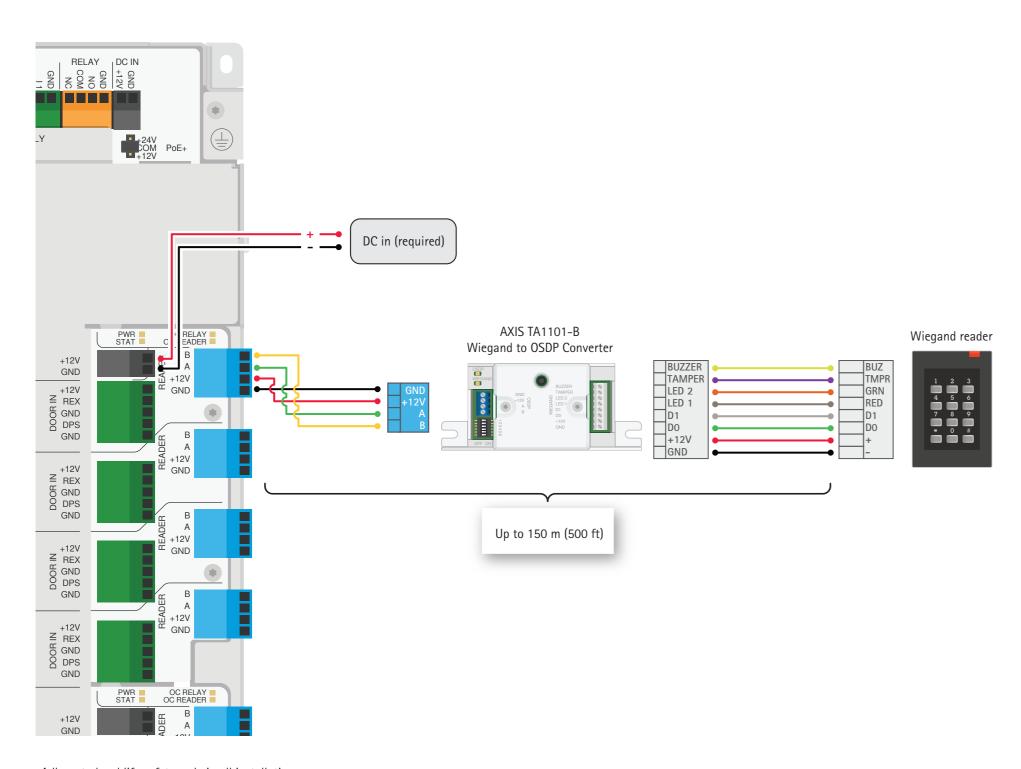
#### Considerations

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

- 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.

Overview Advanced	
Reader type	
OSDP, RS485 half duplex	
○ IP reader	
Reader port	
Open 1 Reader	
Opor 2 Reader	
Opor 3 Reader	
O Door 4 Reader	
Reader address	

## Wiegand reader – powered by the controller



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.

### Application

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

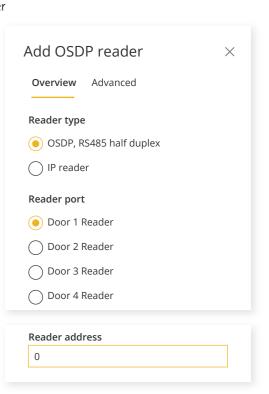
#### Requirements

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

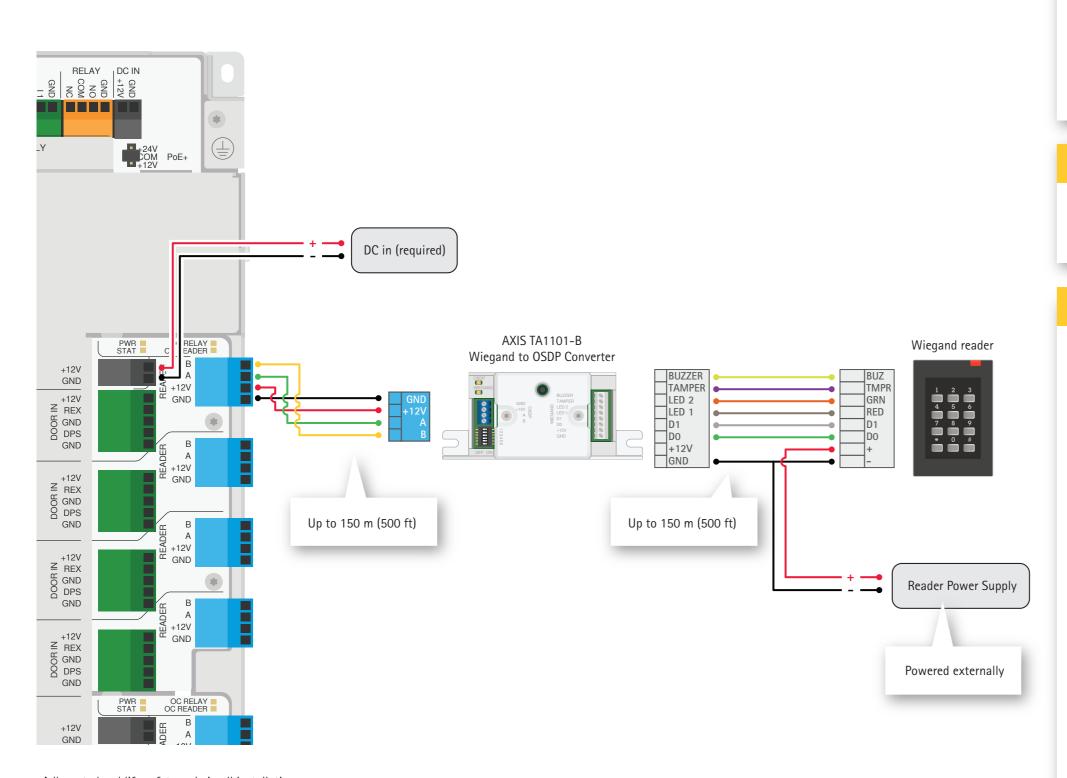
#### Considerations

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

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



## Wiegand reader - powered externally



### Application

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

### Requirements

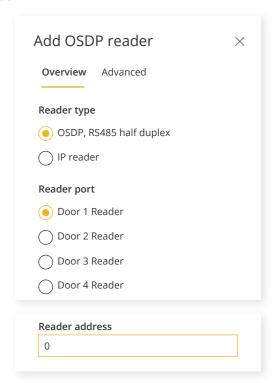
- > Reader powered externally, not by controller
- > AXIS TA1101-B unit required
- > AXIS TA1101-B wiring:
  - > AWG 22-16

#### Considerations

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

## AXIS Camera Station configuration

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

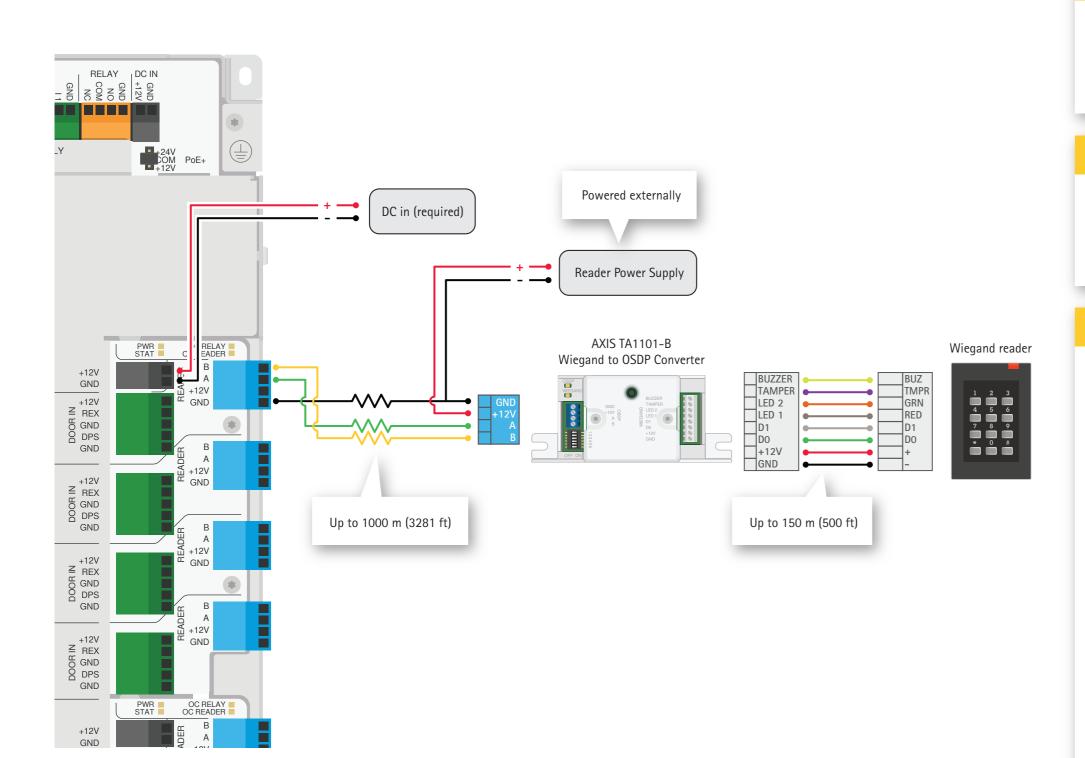


Adhere to local life safety code in all installations.

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.

## Wiegand reader - powered externally, long cable



Application

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

#### Requirements

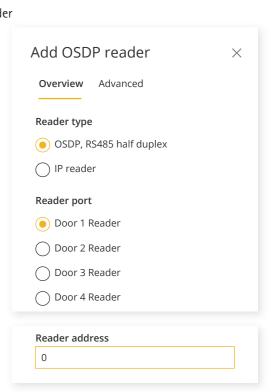
- > Reader powered externally, not by controller
- > AXIS TA1101-B unit required
- > AXIS TA1101-B wiring:
  - > AWG 22-16

### 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

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

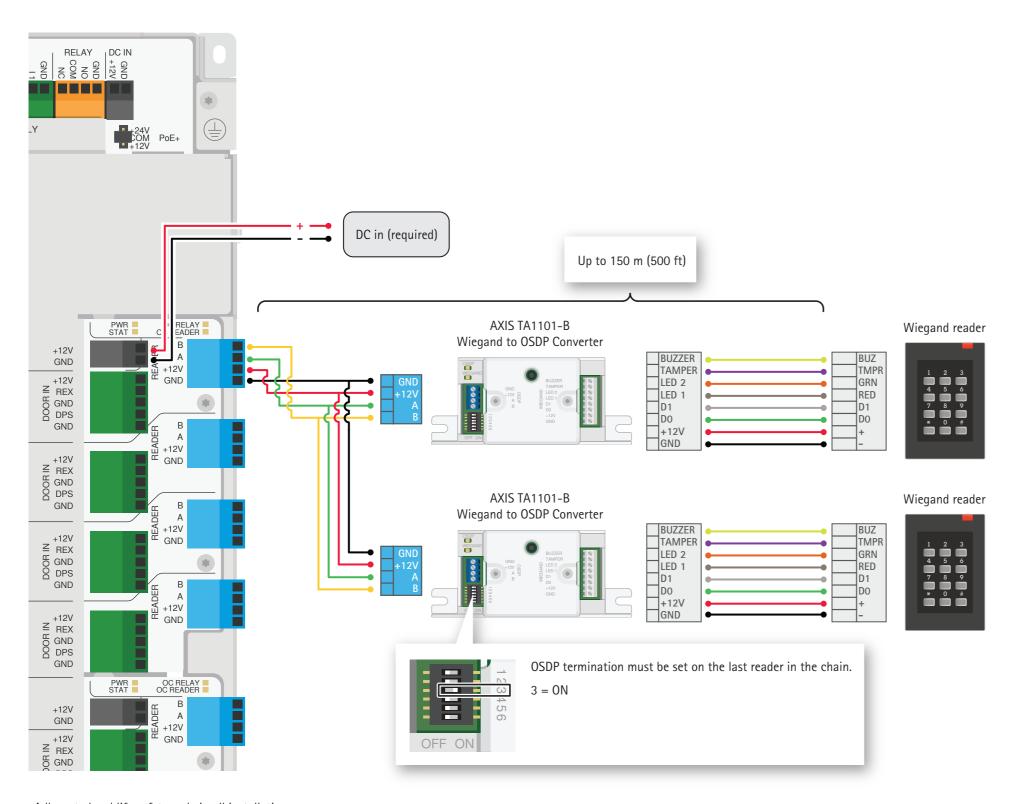


Adhere to local life safety code in all installations.

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.

## Wiegand reader – multi-drop



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.

## 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

- 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.

Overview Advanced	
Reader type	
OSDP, RS485 half duplex	
○ IP reader	
Reader port	
Open 1 Reader	
Opor 2 Reader	
Ooor 3 Reader	
Door 4 Reader	
Reader address	
0	

# Wiegand and OSDP reader - multi-drop

## Application

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

#### Requirements

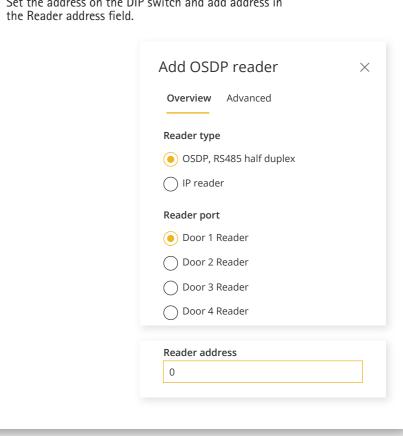
- > AXIS TA1101-B unit required
- > AXIS TA1101-B wiring:
  - > AWG 22-16
- > OSDP reader wiring:
  - > AWG 22-14

#### Considerations

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

## **AXIS** Camera Station configuration

- 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



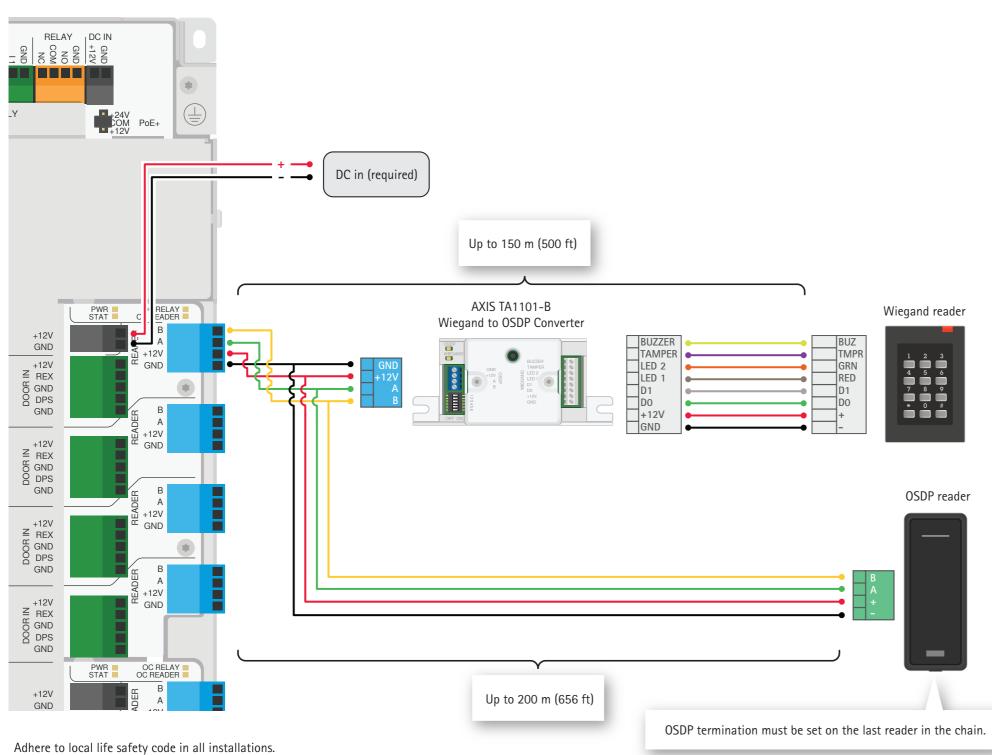
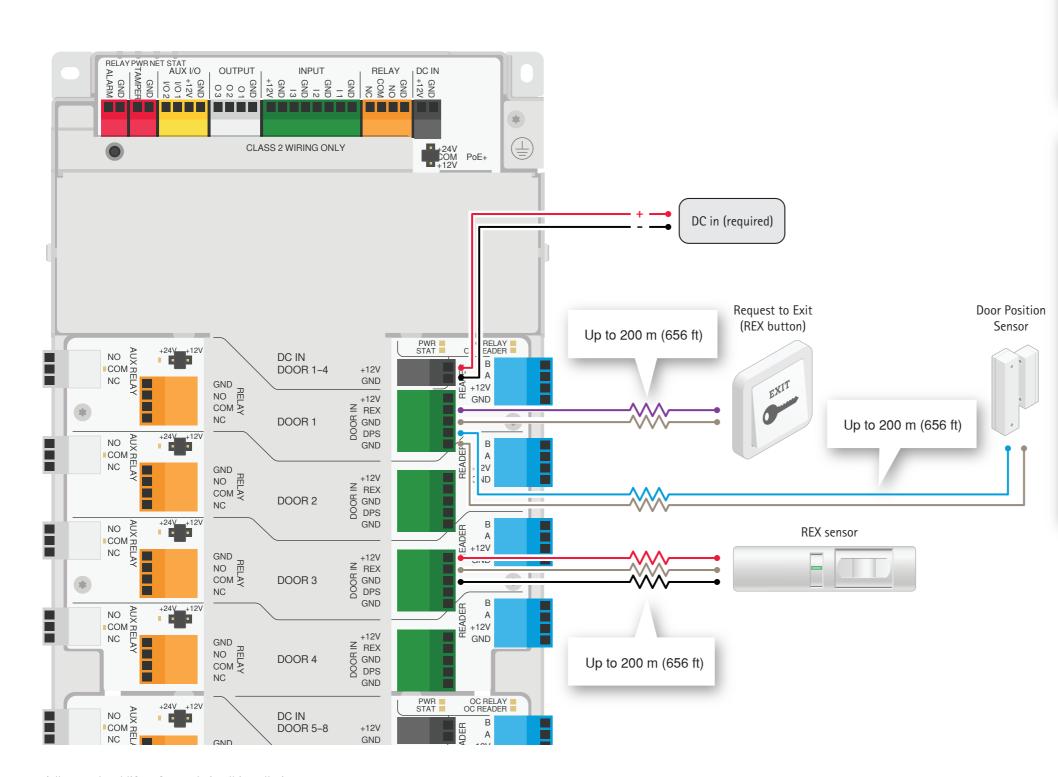


Illustration does not depict door monitors, REX devices, locks, battery backup and UPS.

Ensure that your power supplies and relays are rated for the intended purposes.

## Installation for door inputs



### Requirements

- > Wiring:
  - > AWG 24-14

#### Considerations

- > REX sensor:
  - > Door 1-4 combined 400 mA at 12V DC
  - > Door 5-8 combined 400 mA at 12V DC

## **AXIS** Camera Station configuration

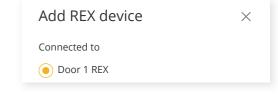
- 1. Add a door
- 2. Connect to a door controller
- 3. Add a door position sensor and assign it to DPS 1



O Door 1 DPS

X

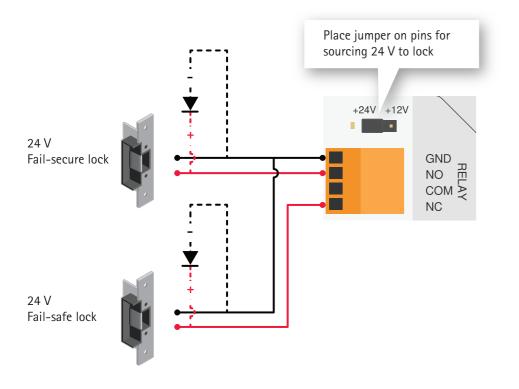
5. Add a REX device on door side B and assign it to REX 1

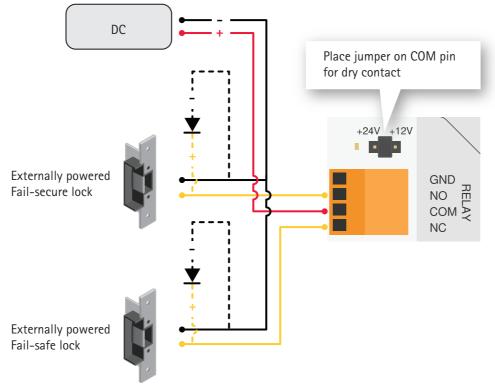


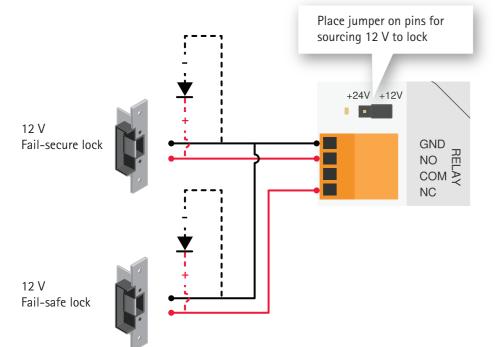
Adhere to local life safety code in all installations.

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.

## 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
- > Door relay 5-8:
  - > 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

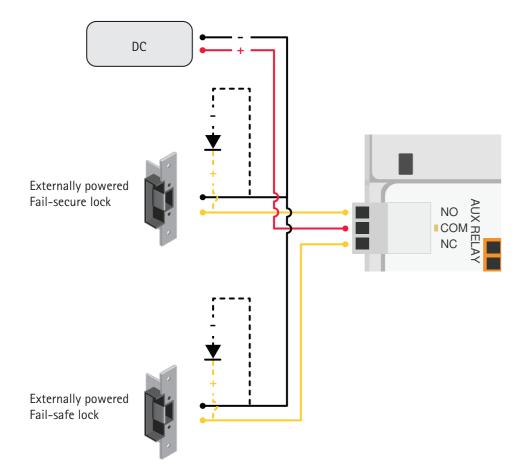
Primary lock

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.

## **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.

## Application

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

## Requirements

- > AUX relay: > 2A at 30V 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

# External tamper and emergency input connections

