

## **AXIS A4020-E Reader**

**User manual**

# AXIS A4020-E Reader

## Installation

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### Installation



To watch this video, go to the web version of this document.

*[help.axis.com/?&pid=70685&section=install](http://help.axis.com/?&pid=70685&section=install)*

*Installation video for the device*

### Wiring

Connect the wires from the reader to the door controller according to the table.

| AXIS A4020-E<br>AXIS A4120-E | AXIS A1001 | Other Axis door controllers |
|------------------------------|------------|-----------------------------|
| B                            | A          | B                           |
| A                            | B          | A                           |
| +                            | 12 V       | 12 V                        |
| -                            | -          | -                           |

# AXIS A4020-E Reader

## Configure your device

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### Configure your device


The device works as a standard OSDP reader out-of-the-box. You can access specific features and change settings in AXIS Camera Station Secure Entry. Below is an example of how to configure the device through AXIS Camera Station Secure Entry.

### Encrypted communication

#### OSDP Secure Channel

AXIS Camera Station Secure Entry supports OSDP (Open Supervised Device Protocol) Secure Channel to active line encryption between controller and Axis readers.

To turn on OSDP Secure Channel for an entire system:

1. Go to **Configuration > Access control > Encrypted communication**.
2. Enter your main encryption key and click **OK**.
3. Turn on **OSDP Secure Channel**. This option is only available after you enter the main encryption key.
4. By default, the main encryption key generates a OSDP Secure Channel key. To manually set the OSDP Secure Channel key:
  - 4.1 Under **OSDP Secure Channel**, click  .
  - 4.2 Clear **Use main encryption key to generate OSDP Secure Channel key**.
  - 4.3 Enter the OSDP Secure Channel key and click **OK**.

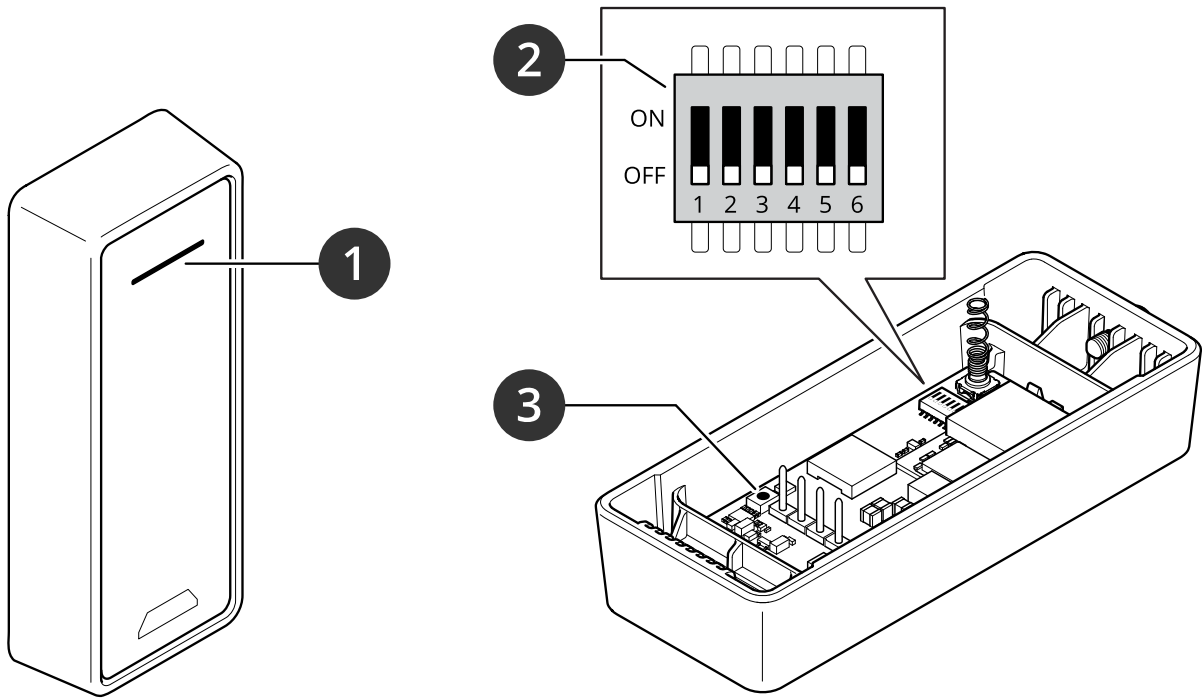
To turn on or turn off OSDP Secure Channel for a specific reader, see *Doors and zones*.

# AXIS A4020-E Reader

## Specifications

### Specifications

#### Product overview



- 1 Reader indicator stripe
- 2 DIP switches
- 3 Control button

#### Reader indicator stripe

| Behavior     | State                             |
|--------------|-----------------------------------|
| Flashing red | Waiting for controller connection |

#### DIP switches

| DIP switch | Default setting | Function   |
|------------|-----------------|--|
| 1          | Off             | OSDP address:<br>Off + Off = 0*<br>Off + On = 1<br>On + Off = 2<br>On + On = 3 |
| 2          | Off             |  |
| 3          | Off             | RS485 termination, Off = active  |
| 4          | Off             | -  |
| 5          | Off             | -  |

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|  |     |             |
|--|-----|-------------|
| 6  | Off | Secure mode |
| * When switch 1 and 2 are both set to Off, you can use the command <code>osdp_COMSET</code> to change the address. |     |             |

### Buttons

#### Control button

The control button is used for:

- Resetting the product to factory default settings. See .

#### Baud rate

The default baud rate is 9600. To change it, use the command `osdp_COMSET`.

# AXIS A4020-E Reader

## Troubleshooting

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### Troubleshooting

#### Reset to factory default settings

A reset to factory default resets all settings to the factory default values.



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1. Remove the device from the backplate. This disconnects power from the device.
2. Remove the connector from the backplate.
3. Use a blunt instrument to press and hold the control button while you reconnect power by connecting the terminal block to the pins in the device. See . You will hear a short beep when you reconnect power. It indicates that the control button is pressed.
4. Keep the control button pressed for a few seconds.
5. Release the control button. You will hear a beep that indicates that the device has been reset to the factory default settings.
6. Put the terminal block in its place in the backplate.
7. Hook the device onto the backplate and close the unit slowly.

