

**AXIS A4x20 Readers**

**AXIS A4020-E Reader**

**AXIS A4120-VE Reader with Keypad**

# AXIS A4x20 Readers

## Installation

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### Installation



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

[www.axis.com/products/online-manual/70685#t10171383](http://www.axis.com/products/online-manual/70685#t10171383)

*Installation video for the device*

### Wiring

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

AXIS A4020-E	AXIS A1001	Other Axis door controllers
B	A	B
A	B	A
+	12 V	12 V
-	-	-

# AXIS A4x20 Readers

## 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

AXIS Camera Station Secure Entry supports OSDP (Open Supervised Device Protocol) Secure Channel to enable line encryption between controller and AXIS A4020-E Reader.

To turn on OSDP Secure Channel for entire system:

1. Go to **Configuration > Access control > Encrypted communication**.
2. Specify your main encryption key and click **OK**. To change the main encryption key, click .
3. Turn on **OSDP Secure Channel**. This option is only available after you have set the main encryption key.
4. By default, the OSDP Secure Channel key is generated by the main encryption 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 Type the OSDP Secure Channel key and click **OK**.

To turn on or turn off OSDP Secure Channel for a specific reader, see .

# AXIS A4x20 Readers

## 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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[www.axis.com/products/online-manual/70685#t10171385](http://www.axis.com/products/online-manual/70685#t10171385)

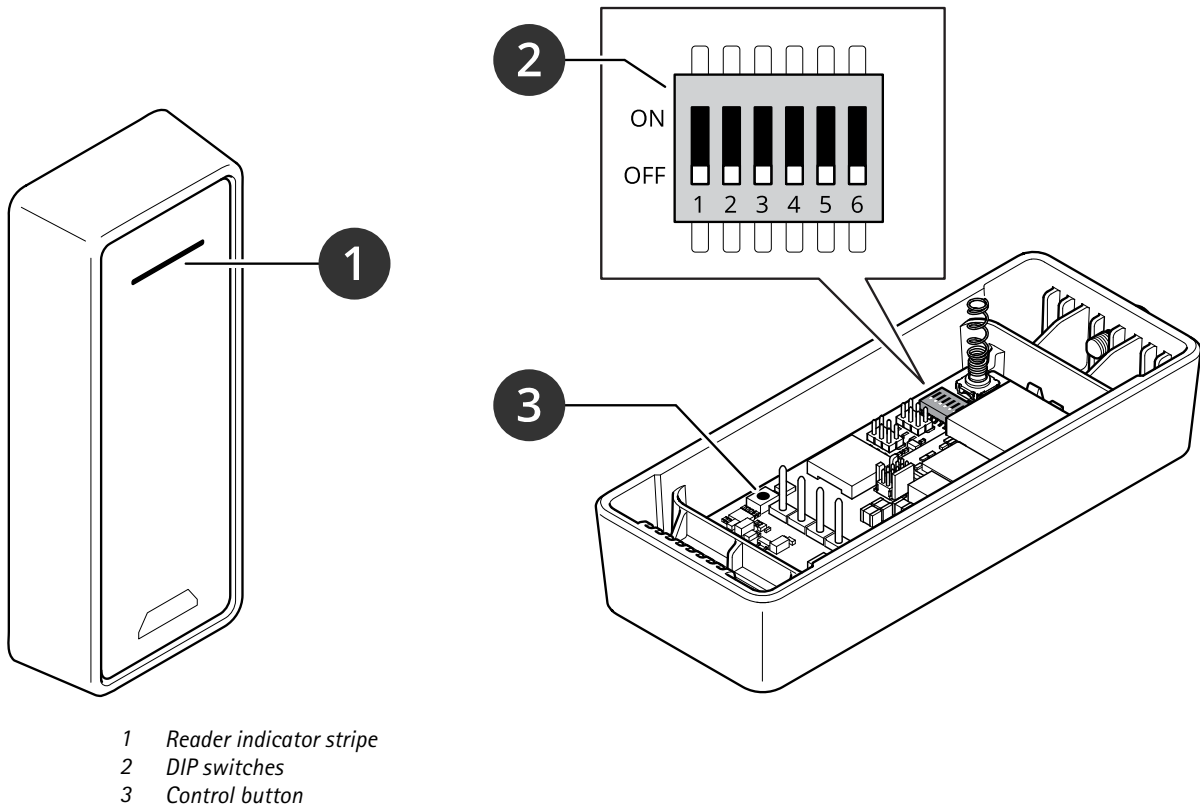
1. Remove the device from the backplate. This disconnects power from the device.
2. Remove the connector from the backplate.
3. Use a blunt instrument to press and hold the control button while you reconnect power by connecting the terminal block to the pins in the device. See *Product overview on page 5*. 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.

# AXIS A4x20 Readers

## Specifications

### Specifications

#### Product overview



#### Reader indicator stripe

Behavior	State
Flashing red	Waiting for controller connection

#### DIP switches

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

# AXIS A4x20 Readers

## Specifications

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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 *Reset to factory default settings on page 4*.

#### Baud rate

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

