AXIS A4030-E Reader

User manual

Installation

Installation video for the device

Wiring

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

AXIS A4030-E	Axis door controller or other OSDP capable control panel
B	B
A	A
+	12 V
-	-

Configure your device

The device works as a standard OSDP reader out-of-the-box. To configure features and settings, use access management software such as 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*.

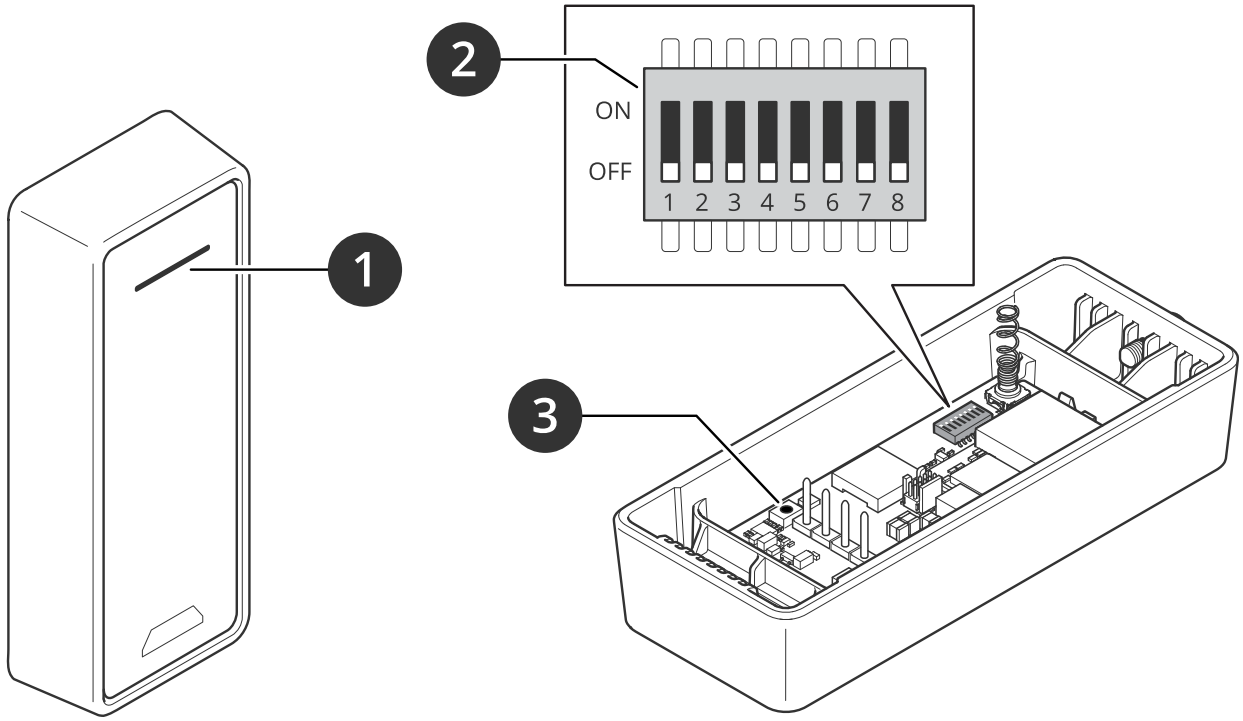
Note

If the access control unit, host, or panel supports OSDP secure channel, we recommend that you enforce it on the reader device to increase communication security. To enforce secure channel, activate DIP #6 on the reader device.

The encryption key is transmitted in plain text during initial setup, so all RS485 wiring and devices should be under supervision during this process.

Specifications

Product overview

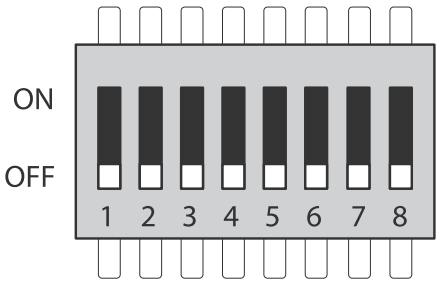


1 *Reader indicator stripe*
2 *DIP switches*
3 *Control button*

Reader indicator stripe

State	Behavior
Offline (waiting for controller connection)	Flashing red and yellow every three seconds
Online	Responds to OSDP LED commands according to *OSDP specification version 2.2.2*.

DIP switches



<table>
<tr><th>DIP switch</th><th>Default setting</th><th>Function</th></tr>
<tr><td>1</td><td>Off</td><td rowspan="2"><table>
<tr><td>Switch 1</td><td>Switch 2</td><td>Address</td></tr>
<tr><td>Off</td><td>Off</td><td>0</td></tr>
<tr><td>Off</td><td>On</td><td>2</td></tr>
<tr><td>On</td><td>Off</td><td>1</td></tr>
<tr><td>On</td><td>On</td><td>3</td></tr>
</table></td></tr>
<tr><td>2</td><td>Off</td></tr>
<tr><td>3</td><td>Off</td><td>RS485 120 Ohm termination. Off = inactive. Turn on for last reader on the OSDP line.</td></tr>
<tr><td>4</td><td>Off</td><td>Buzzer control. Off = buzzer sounds. On = buzzer silent.</td></tr>
<tr><td>5</td><td>Off</td><td>-</td></tr>
<tr><td>6</td><td>Off</td><td>Encrypted communication (secure channel). Off = inactive. On = active.
The secure channel feature can be activated on hardware or in AXIS Camera Station Pro. When activated on hardware using DIP switch 6, encrypted communication is enforced.</td></tr>
<tr><td>7</td><td>-</td><td>-</td></tr>
<tr><td>8</td><td>-</td><td>-</td></tr>
</table>

Buttons

Control button

The control button is used for:

- Resetting the product to factory default settings. See *Reset to factory default settings, on page 6*.

Baud rate

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

Troubleshooting

Reset to factory default settings

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 4*. 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.

Important

If you hold the control button pressed for around 60 seconds, you'll erase the firmware. To reinstall new firmware, you'll need an AXIS Access Controller. See more information in *Upgrade readers*.

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