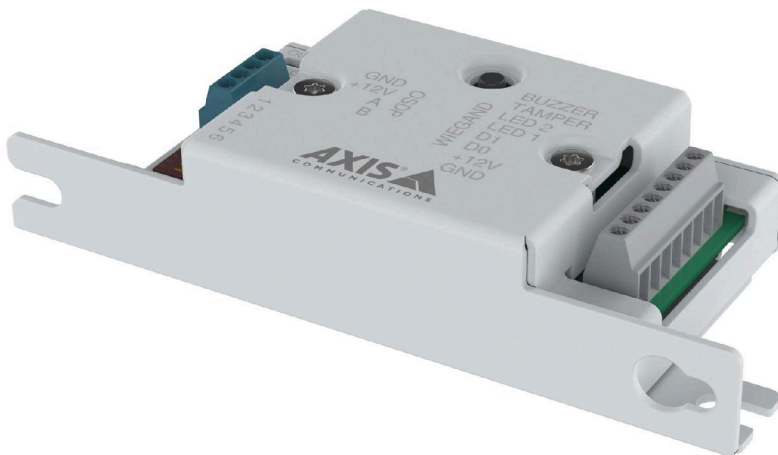# AXIS TA1101-B Wiegand to OSDP Converter

Secure and efficient communication

AXIS TA1101-B Wiegand to OSDP Converter is a versatile accessory designed to bridge the gap between Wiegand readers and Axis door controllers, specifically the AXIS A1710-B and A1810-B Network Door Controllers which have only OSDP reader port on board. This compact device ensures seamless integration by converting Wiegand signals to OSDP, allowing modern, secure, and efficient communication between the reader and the door controller.

> **Enabling connection of Wiegand reader to controller via OSDP**
> **OSDP verified ensure interoperability**
> **Compact design fit in a single gang box**
> **Enclosure as an optional accessory for wall mount**

AXIS TA1101-B Wiegand to OSDP Converter

Power

Input
12 V DC, typical 3 W, max 6.2 W

Output
Power out reader: 12 V DC, 440 mA

I/O interface

Digital I/O
2x digital input for Wiegand D0, D1, 0–30 V DC
3x digital output for Wiegand LED1, LED2 and buzzer, open drain, 0–30 V DC, max 100 mA
1x input for Wiegand tamper, 0–30 V DC, possible to supervise (4 states)
Supervised inputs: End of line resistor, serial connection 1 K

RS485
1x port, half duplex, OSDP

Cable requirements

Wire size for connectors: AWG 26–16
Reader data (RS485): 1 twisted pair with shield, 120 ohm impedance, AWG 24–16, qualified for up to 1000 m (3281 ft)
Reader data (Wiegand): AWG 22–16, qualified for up to 150 m (500 ft)
Reader powered by AXIS TA1101–B (Wiegand): AWG 22–16, qualified for up to 150 m (500 ft)[1]
I/Os as inputs: AWG 24–16, qualified for up to 200 m (656 ft)
External DC power: AWG 22–16, qualified for up to 3 m (10 ft)
DC power from controller to AXIS TA1101–B: 1 twisted pair with shield, AWG 22-16 , qualified for up to 150 m (500 ft)
When powered by controller: AWG 22–16, max 150 m (500 ft) between controller and Wiegand reader

System integration

Tamper detection
Case open detection when used with AXIS TA1201

Approvals

Product markings
CE, FCC, ICES, KC, RCM, UL/cUL, VCCI, WEEE

Supply chain
TAA compliant

EMC
CISPR 32 Class B, EN 55035, EN 55032 Class B, EN 50130-4, EN 61000-6-1, EN 61000-6-2
Japan: VCCI Class B
Korea: KS C 9835, KS C 9832 Class B
USA: FCC Part 15 Subpart B Class B

Environment
IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78

Safety
CAN/CSA C22.2 No. 62368-1 ed. 3, IEC/EN/UL 62368-1 ed. 3, RCM AS/NZS 62368.1:2022, IEC/EN 62471 risk group exempt, UL 2043, UL 294

Cybersecurity

Edge security
Software: Signed device software
Secure keystore: secure element (CC EAL 6+, FIPS 140-3 Level 3),
Secure boot

Documentation
AXIS OS Software Bill of Material (SBOM)
To download documents, go to *axis.com/support/ cybersecurity/resources*
To read more about Axis cybersecurity support, go to *axis.com/cybersecurity*

General

Casing
Steel
Color: white NCS S 1002-B

Mounting
Wall mount, cabinet mount[2], single gang box mount, enclosure mount

1. *Depending on the reader's voltage and current input range.*
2. *Shall be mounted in UL listed UL 294 enclosure with tamper switch.*

Connectors

I/O: 1x 4-pin terminal block for OSDP connection
I/O: 1x 8-pin terminal block for Wiegand connection

Operating conditions

-40 °C to 70 °C (-40 °F to 158 °F)
UL 294: 0 °C to 70 °C (32 °F to 158 °F)
Humidity 10–85% RH (non-condensing)

Storage conditions

-40 °C to 70 °C (-40 °F to 158 °F)
Humidity 5–95% RH (non-condensing)

Dimensions

For the overall product dimensions, see the dimension
drawing in this datasheet.

Weight

74 g (0.16 lb)

Box content

Wiegand to OSDP converter, installation guide, owner
authentication key

Optional accessories

AXIS TA1201 Wall Mount Enclosure[3]
For more accessories, go to *axis.com/products/axis-
ta1101-b-wiegand-to-osdp-converter#accessories*

System tools

AXIS Site Designer, product selector, accessory selector
Available at *axis.com*

Warranty

5-year warranty, see *axis.com/warranty*

Part numbers

Available at *axis.com/products/axis-ta1101-b-
wiegand-to-osdp-converter#part-numbers*

Sustainability

Substance control

PVC free, BFR/CFR free in accordance with JEDEC/ECA
Standard JS709
RoHS in accordance with EU RoHS Directive 2011/65/
EU and 2015/863, and standard EN IEC 63000:2018
REACH in accordance with (EC) No 1907/2006. For SCIP
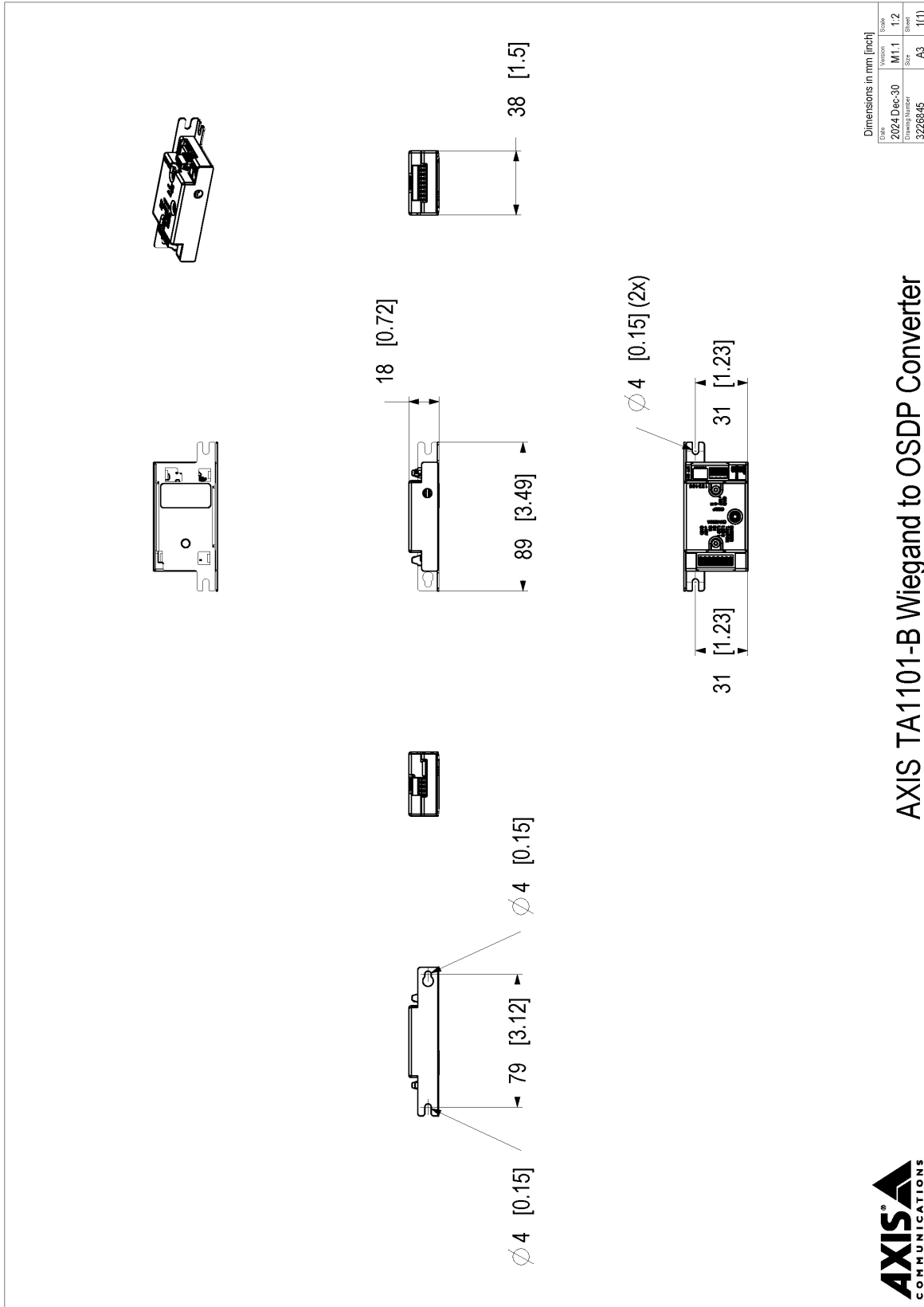UUID, see *echa.europa.eu*

Materials

Screened for conflict minerals in accordance with OECD
guidelines
To read more about sustainability at Axis, go to *axis.
com/about-axis/sustainability*

Environmental responsibility

axis.com/environmental-responsibility
Axis Communications is a signatory of the UN Global
Compact, read more at *unglobalcompact.org*

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3. *Not intended for UL 294*

Dimension drawing

AXIS TA1101-B Wiegand to OSDP Converter

Dimensions in mm [inch]

Date	Version	Scale
2024 Dec-30	M1.1	1:2
Drawing Number	Size	Sheet
3226845	A3	1(1)

38 [1.5]

18 [0.72]

89 [3.49]

Ø 4 [0.15] (2x)

31 [1.23]

31 [1.23]

79 [3.12]

Ø 4 [0.15]

Ø 4 [0.15]