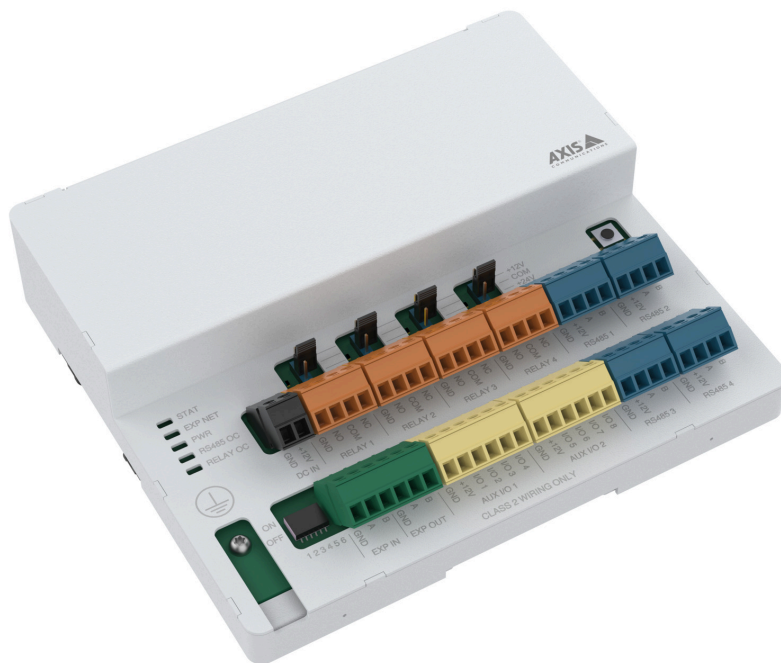


AXIS A9910 I/O Relay Expansion Module

Expand I/Os with increased flexibility

Enjoy even more I/O functionality with AXIS A9910 I/O Relay Expansion Module. Featuring multi-drop technology, it's possible to connect up to 16 of these expansion modules to one AXIS A9210 device. 128 I/Os and 64 relays using just one PoE cable—no need for an extra network cable drop. This ensures a cost-effective installation and saves you time and effort. Plus, Modbus sensor ports let you integrate environmental sensors such as temperature and humidity sensors.

- > 8 I/O ports with supervised inputs
- > 4 form C relay, wet or dry
- > 4 Modbus sensor ports
- > Supports up to 128 I/Os and 64 relays with one IP connection



AXIS A9910 I/O Relay Expansion Module

I/O interface

Configurable I/Os I/O: 8x I/O, configurable inputs or outputs
Digital input: 0 to max 30 V DC, possible to supervise between 0–12 V (4 states)^a
 Programmable end-of-line resistors, 1 K, 2.2 K, 4.7 K and 10 K, 1%, ¼ watt standard
Digital output: Open drain, 0 to max 30 V DC, max 100 mA
Power out I/O: 2x 12 V DC output, combined total max 100 mA

Relays 4x form C relay, NO/NC, max 4 A, 30 V DC
Power out relay: 12/24 V DC, jumper configurable, max 49.6 W
 With DC in: combined total max 4 A at 12 V DC, combined total max 2 A at 24 V DC, max 49.6 W

RS485 4x port, half duplex, Modbus
Power out RS485: 4x 12 V DC output, combined total max 2 A

Expansion interface

Expansion IN and Expansion Out interface, multi-drop, qualified up to 16 expansion modules^b

Power

Power in: 12–24 V DC, max 90 W

Cable requirements

Wire size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14
 DC power: AWG 18–16, qualified for up to 3 m (10 ft)
 Relay: AWG 18–16, qualified for up to 200 m (656 ft)
 I/Os as inputs: AWG 24, qualified for up to 200 m (656 ft)
 RS485 data: 1 twisted pair with shield connected to the protected ground, 120 ohm impedance, qualified for up to 1000 m (3281 ft)
 RS485 powered by device: AWG 20–16, qualified for up to 200 m (656 ft)^c

System integration

Video management systems Compatible with AXIS Camera Station, video management software from Axis' Application Development Partners available at axis.com/vms

Tamper detection Tilting, vibration

Approvals

Product markings CE, RCM, UKCA, UL/cUL, VCCI, WEEE

Supply chain TAA compliant

EMC CISPR 35, CISPR 32 Class A, EN 55032 Class A, EN 55035, EN 50130-4, EN 61000-6-1, EN 61000-6-2
 Australia/New Zealand: RCM AS/NZS CISPR 32 Class A
 Canada: ICES-3(A)/NMB-3(A)
 Japan: VCCI Class A
 Korea: KS C 9835, KS C 9832 Class A
 USA: FCC Part 15 Subpart B Class A

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

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

Cybersecurity

Edge security Software: Signed firmware
 Hardware: Secure element (CC EAL 6+), secure keystore, secure boot

Communication AES-128

Documentation Axis Vulnerability Management Policy
 Axis Security Development Model
 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 DIN rail mount
Connectors	I/O: Terminal blocks for DC power, inputs/outputs, relay. Detachable and color coded connectors for ease of installation. Wire size for connectors: CSA: AWG 28–16, CUL/UL: AWG 30–14
Operating conditions	Temperature: –40 °C to 55 °C (–40 °F to 131 °F) Conditional maximum temperature ^d : 70 °C (158 °F) Humidity: 10–85% RH (non-condensing)
Storage conditions	Temperature: –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	585 g (1.3 lb)
Box content	Expansion module, installation guide, connector kit (mounted), grounding kit
Optional accessories	AXIS TA1901 DIN Rail Clip AXIS TA1902 Access Control Connector Kit ^e AXIS T98A15-VE Surveillance Cabinet AXIS TQ1808-VE Surveillance Cabinet AXIS TA9001 Wall Mount Bracket AXIS TA9901 Cable Strain Relief AXIS T8008 PS12 AXIS T8008 PS24 For more accessories, go to axis.com/products/axis-a9910
System tools	AXIS Site Designer, AXIS Device Manager, product selector, accessory selector Available at axis.com
Languages	English, German, French, Spanish, Italian, Russian, Simplified Chinese, Japanese, Korean, Portuguese, Polish, Traditional Chinese, Dutch, Czech, Swedish, Finnish, Turkish, Thai, Vietnamese
Warranty	5-year warranty, see axis.com/warranty
Part numbers	Available at axis.com/products/axis-a9910#part-numbers
Sustainability	
Substance control	PVC free RoHS in accordance with EU RoHS Directive 2011/65/EU and EN 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

a. For more information, go to help.axis.com/axis-a9910

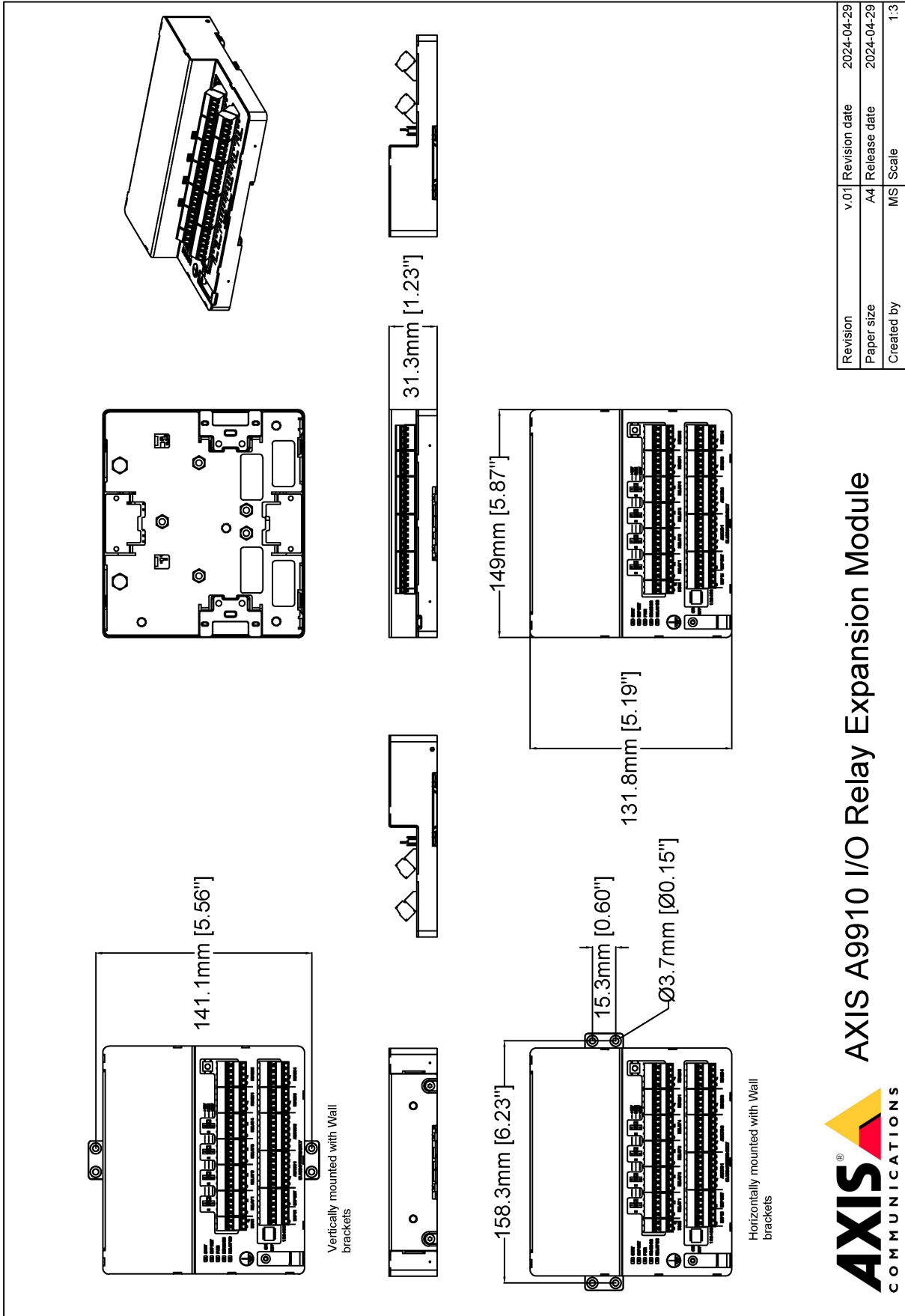
b. For more information, see the installation guide.

c. Depending on the peripheral device's voltage and current input range.

d. The lock(s) should be externally powered. Onboard RS485 power with max 2 A at 12 V DC.

e. Not intended for UL 294

Dimension drawing



AXIS A9910 I/O Relay Expansion Module



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