AXIS A4020-E Reader

Contactless, secure RFID reader

Designed to perfectly match Axis network door controllers and Axis credentials, AXIS A4020-E Reader offers secure and seamless touch-free entry. Ideal for use in harsh environments both indoors and outdoors, it features a mullion-mount design to fit perfectly in narrow spaces and door frame installations. It supports most types of smart RFID card standards with 13.56MHz credential technologies and includes out-of-the-box support for Open Supervised Device Protocol (OSDP) for secure bidirectional communication. Packed with built-in cybersecurity features, it helps prevent unauthorized access and safeguards your system. Furthermore, this smart reader supports Secure Channel Protocol (SCP) enabling secure communications and connections.

> **Designed to perfectly match Axis door controllers and credentials**
> **Support for most RFID cards with 13.56MHz**
> **IP65, IK07 ratings for use in harsh environments**
> **EAL6+ Certified Secure Element for added protection**
> **Mullion-mount design for easy installation**

AXIS A4020-E Reader

RFID reader

Reader technology
13.56 MHz ISO14443A and ISO14443B (MIFARE Classic®, MIFARE Plus® (Level 1), MIFARE DESFire® EV1, EV2, and EV3).

Network protocols
Open supervised device protocol (OSDP)

Alarm status indication
RGB LED for user feedback, buzzer

Tampering

Detection type
Built-in tamper switch for detecting both open casing and removal from wall

Cybersecurity

Edge security
Hardware: Axis Edge Vault cybersecurity platform Secure element (CC EAL 6+), secure keystore, secure boot

Documentation
AXIS OS Hardening Guide
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
IP65 and NEMA 4X-rated, IK07 plastic casing, hard-coated scratch- and impact-resistant front
Color: black NCS S 9000-N

Mounting
Suitable for mullion-mount door installations or any flat surface mounting

Security
EAL 6+ Certified Secure Element Hardware

Power
Input: 12 V DC
Current consumption: Typical 60 mA@12 V, peak 100 mA@12 V
H-field strength = 15.63 dBµA/m @3m

Connectors
4-pin 26–18 AWG terminal block for RS485 (A/B) and power (+/-)

Cable requirements
Power: 26–18 AWG (0.13–0.82 mm²)
Reader data: 1 twisted pair with shield, 26–18 AWG (0.13–0.82 mm²), 120 ohm impedance, for A and B. Qualified for up to 1000 m (3281 ft) – 24 AWG.

Operating conditions
-40 °C to 65 °C (-40 °F to 149 °F)
Humidity 10–100% RH (condensing)

Storage conditions
-40 °C to 65 °C (-40 °F to 149 °F)
Humidity 5–95% RH (non-condensing)

Approvals
EMC
EN 61000-6-1, EN 61000-6-3,
FCC Part 15 Subpart B Class B
Wireless
EN 300330, EN 301489-1, EN 301489-3, EN 62311, FCC Part 15 Subpart C
Safety
CAN/CSA-C22.2 No. 60950-22,
CAN/CSA C22.2 No. 62368-1, IEC/EN/UL 60950-22, IEC/EN/UL 62368-1, 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, IEC/EN 60529 IP66, IEC/EN 62262 IK07, NEMA 250 Type 4X
Cybersecurity
EN 18031-1

Dimensions
121 x 48 x 27 mm (4.76 x 1.89 x 1.06 in)

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Weight
118 g (4.16 oz)

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