ATS1181

Secure Mifare DesFire EV1/EV2 card reader with PIN, output and RTE input in slim design

Product overview

The ATS MIFARE DESFire EV1/EV2 readers connect directly to the control panel or 4 door controller using the ATS databus. Communication to Axon and Advisor Advanced control panels is AES encrypted, providing data to be securely communicated from the card to the processing unit. The readers are configured through locally through keypad and control panel menu or addressed through the ATS1482 addressing card. Select secure cards from the ATS145x secure card series.
The reader offers a Request To Exit input and one open collector output that can be used to control a door relay or door strike.
The ATS Mifare Desfire EV1 readers are designed to transfer card data is a secure and reliable way in various environments. The card data is by default secured by an Interlogix own security key, but can be changed easily in Axon or Advisor Advanced control panels to any custom required key.
The readers can optionally be set to read MIFARE CSN numbers instead in unsecure mode.

Communication

The reader communicates over the ATS LAN databus to Axon or Advisor control panels and 4 door controllers. When connected to an Axon or Advisor Advanced control panels, the data between reader and control panel is AES encrypted, securing the data from the card or the PIN code until being processed.

Design

The unique design of the housing guarantees that the reader can be used in the most demanding surroundings having IP67 and IK-09 ratings. Readers can be installed directly on to a metal surface without any insulation.



Details

- Secure ATS Mifare DESFire EV1/EV2 reader with PIN keypad
- Supports Secure Mifare (secure mode) or Mifare 4 or 7 byte CSN/UID (Unsecure mode)
- Use secure ATS145x series cards or customer cards
- Secure communication using AES-128 bit encryption between reader and Axon / Advisor Advanced / CDC4 control panel
- Robust molded plastic housing in slim design
- Indoor or outdoor mounting
- ATS bus interface
- Request To Exit input
- Open Collector Output (door open)
- Supported as of Advisor Advanced MR4.2 and Axon MR1.0

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Technical specifications

System

Reading distance	Secure: max 2 cm Unsecure: max 5 cm
Max. reader distance to panel	1500 m
CSN (Card Serial Number)	Yes
Custom data model	Yes
Supported card types	Mifare Classic 7 Byte UID, MIFARE® Classic UID, MIFARE® DESFire UID, MIFARE® DESFire® EV1, MIFARE® DESFire® EV2, MIFARE® DESFire® EV3
Addressing type	Card Addressing
No. of LEDs	3

Technology

Reader type	Smart Card
Reader operating-transmitting frequency	13.56 MHz
Supported technology 13.56 MHz	MIFARE Classic (CSN), MIFARE DESFire (CSN), MIFARE DESFire EV1 (Aritech), MIFARE DESFire EV1 (CSN), MIFARE DESFire EV1 (custom data), MIFARE DESFire EV2 (Aritech), Mifare DESFire EV2 (CSN), Mifare DESFire EV2 (custom data), MIFARE DESFire EV3 (CSN), MIFARE DESFire EV3 (custom data)
Mifare type	ISO14443A
No. of Mifare bytes CSN	4 Bytes (non-unique), 4 Bytes (S50), 7 Bytes (S50), 7 Bytes (S70)

Interface & connections

Interface	ATS RS-485
Connector type	Pigtail
Pigtail length	2 m

Inputs / outputs

Inputs	Request to exit
Outputs	1 Open Collector (10 mA)

Tamper type

Pry-off tamper	Yes

Operation

PIN keypad	Yes
PIN length	Defined by control panel

Electrical

Operating voltage	10.8 to 30 VDC
Current consumption	50 mA @ 13.8 VDC normal 80 mA @ 13.8 VDC max.

Physical

Physical dimensions	140 x 44 x 20 mm
Net weight	240 g
Shipping weight	275 g
Colour	Black
Material	Plastic
Form factor	Slimline
Mounting type	Surface mount

Environmental

Operating temperature	-40 to +55°C
Storage temperature	-40 to +55°C
Environment	Indoor, Outdoor
IP rating	IP67 IK-09

Regulatory

Compliancy	CE
Certification	VdS

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