



AR6181-MX, AR6182-MX

Access Control

Multi-technology card reader

to read ISO14443-A, ISO14443-B and ISO15693 cards

- 13.56 MHz Smart Card reading technology
- Multi protocol
- Configuration using configuration card or software tool
- Can be connected to different access control systems

The **AR6181-MX** and **AR6182-MX** can read a variety of different smart card variants (see details below). The smart two-part construction of these readers makes them very easy to mount. They are supplied with surface mounting frames.

These readers are designed for access control applications using ISO14443-A, ISO14443-B and ISO15693 standard. They read either the unique serial number or, for example, the personalised ID number of Mifare, my-C or my-D cards. Configuring is supported by a ConfigCard or a software tool. These readers can be connected to the dual reader interface or eight-reader interface of SiPass integrated.



AR6181-MX card reader (13.56 MHz)

- Transmission frequency 13.56 MHz
- The following card technologies are supported:

ISO14443-A:

- Mifare 1k and 4k (UID, S/B, MAD)
- Mifare UltraLight (UID, B)
- Mifare DesFire (UID)
- Mifare Desfire EV1 (UID, File)
- my-D proximity (UID, B)

ISO14443-A+B:

- my-C (UID)

ISO15693:

- my-D vicinity (UID)
- I-Code SLI (UID)
- Tag-IT HFI (UID)
- LRI512 (UID)

Legend:

UID: Unique serial number

S/B: Data from Sector/Block

B: Data from Block

MAD: Mifare Application Directory

File: Data in the file system of DESFire transponder

- Configuration using configuration card or software tool
- Up to 7 cm read range, depending on mounting environment, card technology and card type
- DIP switch for functionality selection
- Flash memory for firmware updates
- Three-colour LED for status display and buzzer for audible signals
- Reader power from the power supply of the door controller
- "Touch and Go" operation

AR6182-MX card reader with keypad (13.56 MHz)

as per card reader AR6181-MX

- Keypad with 12 keys: (10 keys 0 – 9, C and E key) for PIN code entry



Reader interfaces and protocols

These card readers AR6181-MX and AR6182-MX offer two different interfaces with various protocols.

Overview:

Interface	Protocol
RS485	CerPass reader protocol*
	UCI protocol
Clock&Data	OMRON emulation
	Wiegand emulation

Note:

Only the RS485 interface supports bus supervision between the card reader and the access control system. Therefore, if using Clock&Data interface, a line interruption between the card reader and the access control system will not be monitored. In addition a forced removal of the card reader will not be noticed by the system.

* Only RS485 CerPass reader protocol in combination with SiPass integrated MP2.2 or higher is UL listed.

Installation

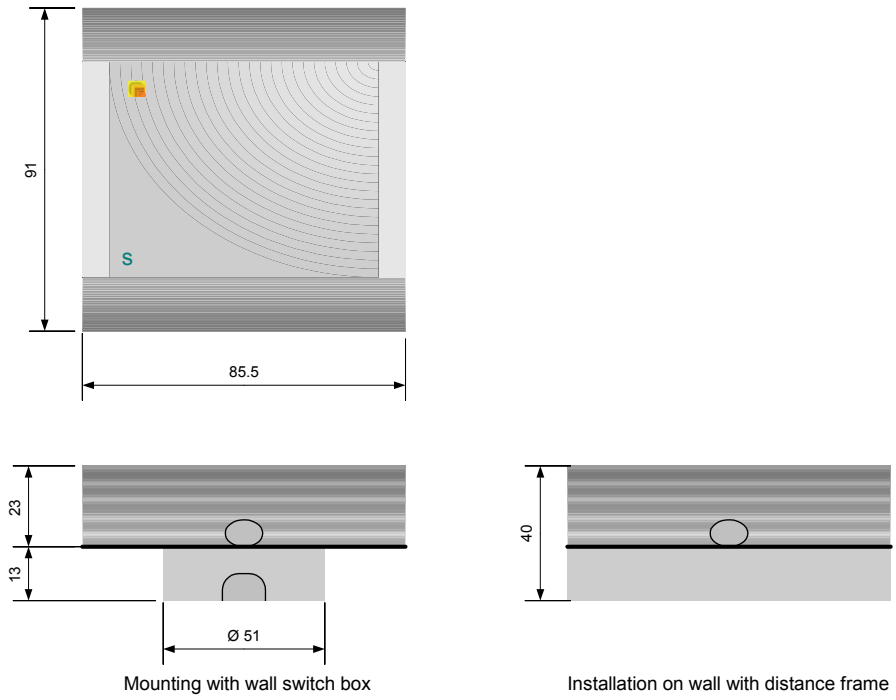
Recommended for wall installation with or without distance frame on an even surface. Can also be installed in standard recess boxes DIN 49073. For installation and connection please follow the instructions in the operating manual.

Note:

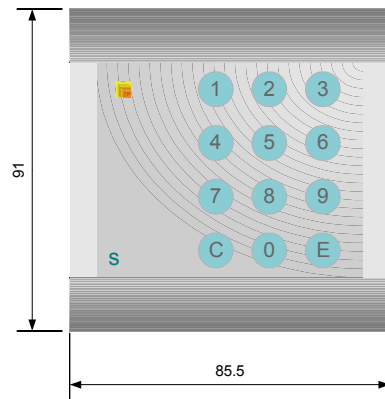
For UL installations the maximum cable length for the RS485 lines is limited to 1100m/3600ft (260 Ohm). The maximum cable length for the power lines is 76m/250ft (1.5 Ohm) in 12VDC installations and 1100m/3600ft (38 OHM) for 24VDC installations.

Dimensions (in mm)

AR6181-MX



AR6182-MX



Technical data

	AR6181-MX / AR6182-MX
System compatibility	SiPass integrated, SIPORT
Interface to controller	RS485 monitored CerPass/UCI protocol. Clock&Data or Wiegand
Operating voltage	12 to 24 VDC ±15 %
Current consumption	165 mA @ 12 VDC 80 mA @ 24 VDC
Tamper switch	No
Card technology	Mifare Classic 1k & 4k (CSN, S/B, MAD); DESfire (CSN); Mifare Desfire EV1 (UID, File), Mifare UltraLight & my-D prox (CSN, B); STM LRI512, my-C, my-D vic, I-Code SLI, Tag-IT HFI (CSN)
Card compatibility	ABP5100-PR ABP5100-BL
Card read distance	Up to 7 cm
Indicators	1 x LED (red/yellow/green) 1 x Buzzer
Keypad	AR6181-MX: No AR6182-MX: Membrane keypad Keys 0-9,C,E > 1,000,000 operations
Operating temperature	-20 to +60 °C
Environment	Indoor or outdoor use
IP rating	IP65
Housing	PC/ABS plastic
Colour	Silver (RAL9006)
Dimensions (W x H x D)	With surface mounting frame: 85.5 x 91 x 40 mm W/o surface mounting frame: 85.5 x 91 x 23 mm
Approval	CE, FCC, UL
Accessories	SH1 universal rain cover

Details for ordering

Type	Part no	Designation	Weight
AR6181-MX	6FL7170-8BK	Multi-technology card reader	0.25 kg
AR6182-MX	6FL7170-8BL	Multi-technology card and PIN reader	0.22 kg
ABP5100-PR	6FL7820-8KB10	Pre-printed Mifare card with access con- trol logo (10 pieces)	0.05kg
ABP5100-BL	6FL7820-8KB20	Blank, printable Mifare cards (10 pieces)	0.05 kg

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