# SIEMENS

# AR6111-MX

Access Control

# Multi-Technology card reader

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

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- **13,56 MHz proximity / vicinity reader technology**
- **Configuration using configuration card**
- **Can be connected to different access control systems**

The AR6111-MX proximity / vicinity reader is part of the access reader range.

The reader is specially designed for access control applications to read the CSN (card serial number) of transponders using the 13,56 MHz technology according to the ISO14443-A, ISO14443-B and ISO15693 standards like Mifare, my-C or my-D cards. The read card number is transmitted via a clock/data interface to the access control system.

The configuration of the readers can be easily done by using a configuration card. This card can be created with the enrolment reader AR6201-MX and the Software tool ASB6102.

The card reader AR6111-MX is designed to be connected to different access control systems.

# Fire Safety & Security Products

**AR6111-MX Card Reader (13,56 MHz)**

- Transmission frequency 13,56 MHz
- The following card technologies are supported:
  **ISO14443-A:**
  - Mifare 1k und 4k (CSN)
  - Mifare Ultra-Light (CSN)
  - Mifare DESfire (CSN)
  - my-D proximity (CSN)
  **ISO14443-A+B:**
  - my-C (CSN)
  **ISO14443-B:**
  - ASK TanGo GTML2 (CSN)
  **ISO15693:**
  - my-D vicinity (CSN)
  - I-Code SLI (CSN)
  - Tag-IT HFI (CSN)
  - LRI512 (CSN)
  Legend:
  CSN: card serial number

- Configuration using configuration card
- 50 cm connecting cable
- Up to 7 cm read range, depending on mounting environment card technology and type
- Flash-Memory for Firmware updates
- Two LED's for status display and buzzer for audible signals
- Reader power from the power supply of the door controller
- "Touch and Go" operation

## Reader interfaces and protocols

The card reader AR6111-MX offers a Clock/Data interface with two emulation modes.

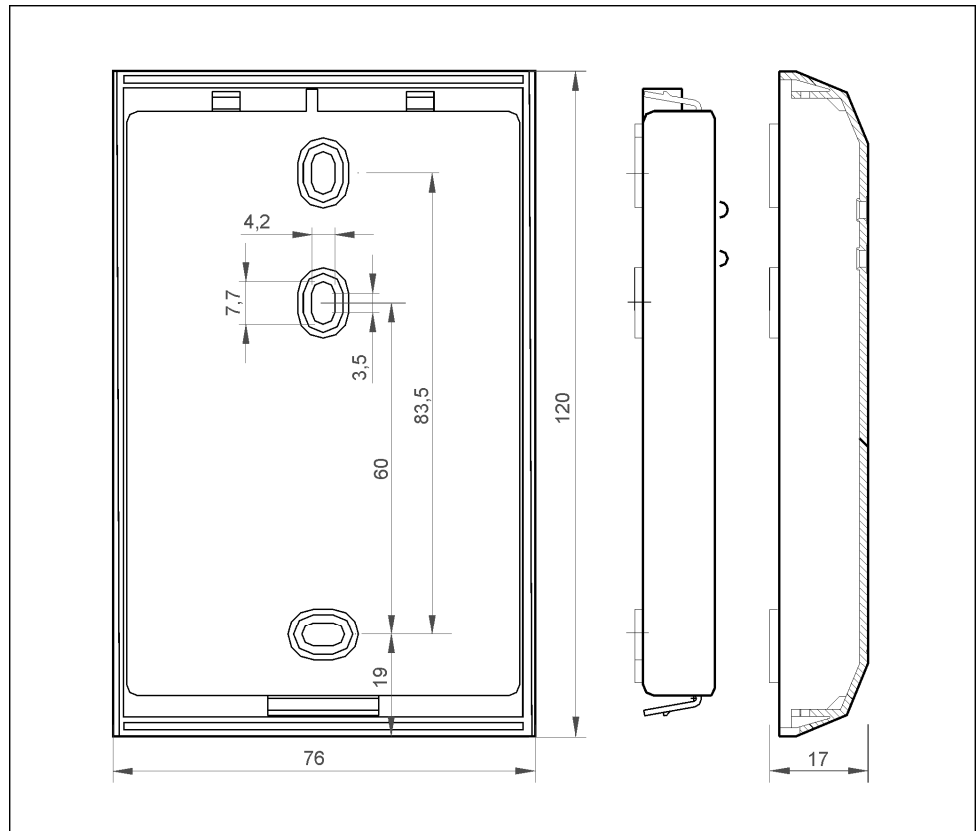| Interface | Protocol |
|-----------|----------|
| Clock/Data | Magstripe Track II |
| | Wiegand emulation |

In addition some digital inputs are available for operation

- LED green
- LED red
- Beeper
- Hold

## Installation

Recommended for wall installation on even surface. Can also be installed in standard recess boxes DIN 49073, or American wall switch boxes. For installation and connection please follow the instructions of the installation manual.

**Dimensions (in mm)**



**Please do not use as drilling template!**

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## Technical data

| | |
|---|---|
| Housing | Synthetic ABS / PBT (electronics cast) |
| Colour:   Casing cover<br>            Casing base | Similar to RAL 9006 (white aluminium)<br>black |
| Dimensions in mm (w x h x d) | 120 x 76 x 17 |
| Weight | Approx. 160 g |
| Protection rating | IP 65 |
| Power supply | 9 V - 15 V DC |
| Power consumption | Max. 2.6 W |
| Temperature range | -25 °C to +60 °C |
| Relative humidity | 95% (no dew formation) |
| Antenna | Integrated |
| Operating frequency | 13.56 MHz |
| Transmitting power | 200 mW $\pm$ 2 dB |
| Transponder | ● **ISO14443A:**<br>Mifare Standard 1k und 4k,<br>Mifare Ultra-Light,<br>Mifare DESfire<br>my-D proximity<br>● **ISO14443B:**<br>My-C (SLE66CL160S)<br>● **ISO15683:**<br>my-D vicinity, I-Code SLI, Tag-IT HFI,<br>STM LRI512 |
| Connecting cable | 50 cm LiYY 12 x 0,2 mm$^2$ / AWG24 |
| Transducer | 1 x LED red, 1 x LED green<br>1 x buzzer |
| Interfaces | Clock / Data emulation from:<br>- Magnetic card (ISO7811-2, 5 bit)<br>- Wiegand<br>RS232-TTL, only service |
| Digital Inputs | 4 inputs |
| Standards | EN 300 330-1 /-2<br>EN 301 489-1 /-3<br>EN 60 950-1<br>EN 50 364<br>FCC 47 CFR Part 15<br>(no. S40AR6111-MX) |

## Details for ordering

| Type | Part no. | Designation | Weight |
|---|---|---|---|
| AR6111-MX | 6FL7170-8DK | AR6111-MX – Multi-Technology card reader | 0,3 kg |

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