SIEMENS

AR6181-RX, AR6182-RX

Access Control

Multi-technology card reader

- ● **125 kHz proximity reader technology**
- ● **RS-485 interface with CerPass/ UCI reader protocol**
- ● **Clock/Data interface with Omron / Wiegand reader protocol**
- ● **Connection to SiPass integrated or SIPORT**

The AR6181-RX and AR6182-RX can read the unique card number of EM4102 (also known as Miro or UNIQUE 125 kHz), Siemens Prox, Hitag 1 and Hitag 2 proximity cards. It can also read the personalised ID number of Hitag 1 and Hitag 2 cards. The smart two-part construction of this reader makes it very easy to mount. It is supplied with a surface mounting frame.

AR6181-RX Card Reader (125 kHz)

- Transmission frequency 125 kHz
- Reads the unique serial number of standard EM4102 (also known as Miro or UNIQUE 125 kHz), Hitag1 and Hitag2 and Siemens Prox coded proximity ID-cards
- Reads the personalised ID-number of Hitag1 and Hitag2 ID-cards (Hitag2 operates always in password mode)
- Up to 7 cm read range, depending on mounting environment[1]
- DIP-switch for functionality selection
- Flash-Memory for Firmware updates
- Single multicolor LED for status display and buzzer for audible signals
- ID-card reader can be connected to the Access Control System **SiPass** and **SIPORT**
- Data transmission using 2-wire RS-485 partyline
- CerPass reader protocol (Reader address 1 to 8)
- UCI reader protocol (Reader address 1 to 4)
- Reader power from the power supply of the door controller
- "Touch and Go" operation

AR6182-RX Card Reader with keypad (125 kHz)

- See card reader AR6181-RX
- With additional keypad for PIN-code entry
- Keypad, 12 keys: 10 keys 0 – 9, C- and E-key
- CC30xx / DRI:

  Keypad operation before card (card follows PIN)
  or
  keypad operation after card (PIN follows card)
- DC2000 / AC4000:

  Keypad operation before card (card follows PIN)

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[1] Depending of the used Transponders (Size, Assembly) a decrease of the reader's range is possible.

2

Compatibility

By use of the reader interface RS-485 with CerPass reader protocol.

	SiPass integrated DRI	**SIPORT**		
		DC2000	AC4000	K42
AR6181-RX **AR6182-RX**	✓ [2]	✓ [3]	✓	-

By use of the reader interface RS-485 with UCI reader protocol.

	SiPass integrated DRI	**SIPORT**		
		DC2000	AC400	K42
AR6181-RX **AR6182-RX**	-	✓ [3]	✓	✓

By use of the reader interface Clock/Data with Omron reader protocol.
Important: By using the Clock/Data reader interface the keypad is not supported.

	SiPass integrated DRI	**SIPORT**		
		DC2000	AC400	K42
AR6181-RX **AR6182-RX**	✓ [2]	✓ [4]	✓ [4]	✓ [4]

Installation

Recommended for wall installation with or without distance frame on even surface. Can also be installed in standard recess boxes DIN 49073. For installation and connection please follow the instructions of the operating manual.
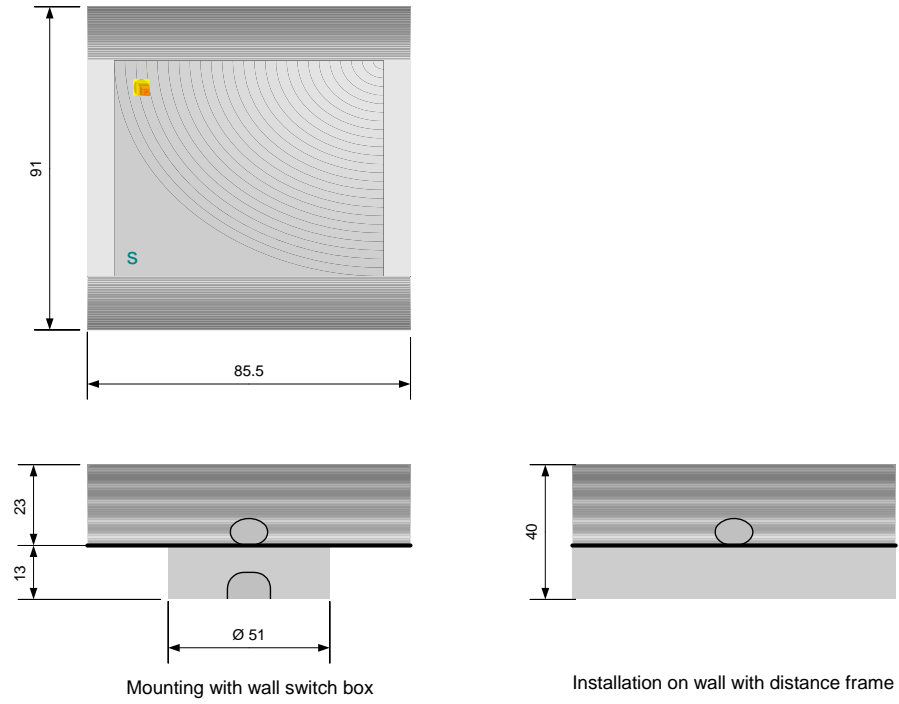
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[2] Only in connection with Siemens Prox, Hitag1 or Hitag2 cards
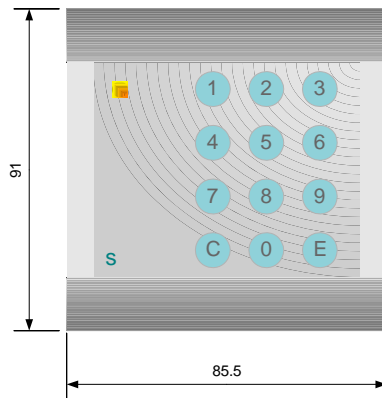[3] Keypad operates only with DC2000 Firmware-version above 2.0 !
[4] Connection only via UCI-Box (6FL7100-8HL) possible

Building Technologies
Fire Safety & Security Products

Dimensions (in mm)

AR6181-RX

91

85.5

23

13

Ø 51

Mounting with wall switch box

40

Installation on wall with distance frame

AR6182-RX

91

1	2	3
4	5	6
7	8	9
C	0	E

S

85.5

Technical data

	AR6181-RX / AR6182-RX
System compatibility	SiPass integrated, SIPORT
Interface to controller	RS485 monitored CerPass/UCI protocol. Clock&Data, Omron or Wiegand
Operating voltage	12 to 24 VDC
Current consumption	145 mA @ 12 VDC 75 mA @ 24 VDC
Tamper switch	No
Card technology	EM4102 (also known as Miro or UNIQUE 125 KHz), Siemens Prox, Hitag 1 and Hitag 2
Card compatibility	ABR5100-PR ABR5100-BL ABR5100-TG
Card read distance	7 cm (approx.)
Indicators	1 x LED (red/yellow/green) 1 x buzzer
Keypad	**AR6181-RX**: No **AR6182-RX**: Membrane keyboard Keys 0-9,C,E > 1,000,000 operations
Operating temperature	-25 to +70° 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
Accessories	SH1 universal rain cover

Details for ordering

Type	Part no	Designation	Weight
AR6181-RX	6FL7170-8AD	Multi-technology card reader	0.30 kg
AR6182-RX	6FL7170-8AE	Multi-technology card and PIN reader	0.30kg
	6FL7195-3QC02-1EN0	ID-card Miro, white, blank	
	6FL7195-3AU02-1EN0	ID-card Hitag1, white, blank, not personalised	
	6FL7153-8AA	ID-card Hitag2, white, blank, not personalised	