SIEMENS

AR6181-RX, AR6182-RX

Access Control

Card reader

to read Miro, CerPass, Hitag1 und Hitag2 cards

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

The AR6181-RX and AR6182-RX proximity readers in Square housing are part of the new Access reader range.

The readers are designed for Access Control applications using standard Miro, CerPass, Hitag1, and Hitag2 proximity cards (125 kHz technology), to read the unique card number or, with Hitag1 and Hitag2 cards, the personalised ID-number.

The AR6181-RX and AR6182-RX (keypad version) reader can be connected to the door controller or the Reader Interface Module RIM to allow the operation with the access control systems **SiPass, CerPass**, or **SIPORT**.

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IF Design Award Winner 2001

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AR6181-RX Card Reader (125 kHz)

- Transmission frequency 125 kHz
- Reads the unique serial number of standard Miro, Hitag1 and Hitag2 and CerPass 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, CerPass** 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.

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Compatibility

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

	CerPass	SiPass	SIPORT		
	CC30xx	DRI	DC2000	AC4000	K24
AR6181-RX **AR6182-RX**	✔	✔[2]	✔[3]	✔	-

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

	CerPass	SiPass	SIPORT		
	CC30xx	DRI	DC2000	AC4000	K24
AR6181-RX **AR6182-RX**	-	-	✔[3]	✔	✔

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

	CerPass	SiPass	SIPORT		
	CC30xx	DRI	DC2000	AC4000	K24
AR6181-RX **AR6182-RX**	✔[4]	✔[2]	✔[5]	✔[5]	✔[5]

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 CerPass, Hitag1 or Hitag2 cards
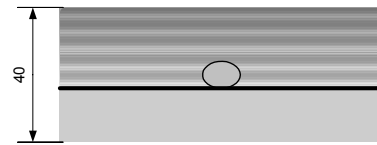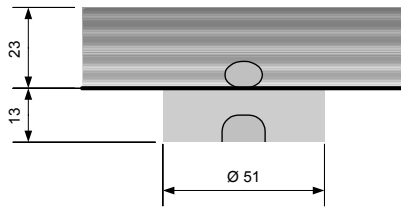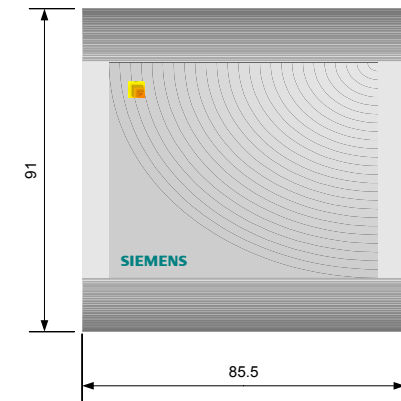[3] Keypad operates only with DC2000 Firmware-version above 2.0 !
[4] Connection only via DCU3 door module (GBQ:524612) possible
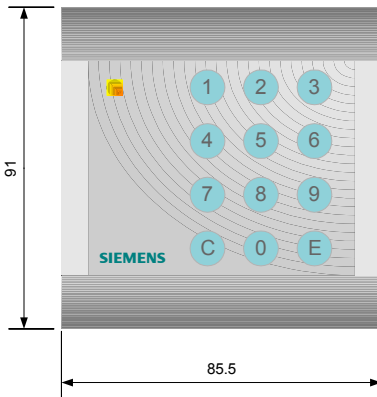[5] Connection only via UCI-Box (6FL7100-8HL) possible

Dimensions (in mm)

AR6181-RX

85.5

91

23

13

Ø 51

Mounting with wall switch box

40

Installation on wall with distance frame

AR6182-RX

91

85.5

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Technical data

Power supply	12-24 V DC/AC (10,2 – 27,6 V)
Current consumption	approx. 120 mA
Interfaces	
RS-485	CerPass / UCI reader protocol
Clock/Data	Omron / Wiegand reader protocol
Operating temperature	-25 to +70 ºC
Keypad	
AR6181-RX	no
AR6182-RX	yes, > 1.000.000 operations
Protection class	IP65
Standards	$C\epsilon$
Conforming	to VDE 0830 i.e. separate door control unit with power supply, detached from the reader terminal
Dimensions in mm (h x w x d)	
Without distance frame	91 x 85,5 x 23
With distance frame	91 x 85,5 x 40
Colour	similar RAL9006, white aluminium
Material	PC / ABS plastic (injection moulding), varnish

Details for ordering

Type	Part no	Designation	Weight
AR6181-RX	6FL7170-8AD	AR6181-RX - Identification card reader for Miro, Hitag1, Hitag2, DZ3022	0.15kg
AR6182-RX	6FL7170-8AE	AR6181-RX - Identification card reader with keypad for Miro, Hitag1, Hitag2, DZ3022	0.15kg
	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	
	GBQ:507024	DZ3022 proximity card, white, blank	