



## Fingerprint reader

**AR6332-BI**

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The AR6332-BI fingerprint reader in a Mullion housing is part of the new Siemens access reader range.

The reader, which is intended for Access Control applications, can be used either in identification mode (the user is identified by fingerprint data only) or in verification mode (a PIN-code is entered as reference for the stored template to be compared with the actual fingerprint).

The reader AR6332-BI can be connected to the CC30xx for CerPass systems, the Dual Reader Interface for SiPass or to the DC2000 for SIPORT NT Access systems.



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IF Design Award Winner 2001

## Features



- Reads the fingerprint information and compares it with a fingerprint template of the user that has been previously stored in the reader with the Bio FTM application. An ID Number of the identified person will then be transmitted to the CerPass or SIPOINT NT Access control system for further processing.
- The fingerprint templates are stored in a coded form in the reader memory.
- Identification or verification of the fingerprint templates: DIP-switch for functionality selection (Identification or Verification with PIN).
- Identification mode is recommended to be used in cases where only a low number of templates are stored in the database! (generally maximum 100 fingers).
- Flash-Memory for Firmware updates.
- Two LEDs, yellow and red/green, for status display and buzzer for audible signals.
- Possible connection to the CC30xx / DC2000 / Dual Reader Interface
- Data transmission to CC30xx / DC2000 / Dual Reader Interface using 2-wire RS485 party line.
- CerPass reader-protocol (reader address 1 to 16).
- Reader power from the power supply of the door controller.
- Data transmission to the Bio FTM application using special RS232 connection. The reader can either be connected directly to a serial PC port or to the LAN via the ANC1616-B device.
- Keypad, 12 keys: 10 keys 0 – 9, C- and E-key.
- Special finger guide for an optimal finger placement (patent pending).
- The Fingerprint reader can store and compare up to 450 fingerprint templates.
- Every enrolled person can store up to 10 fingers.
- The security level is set at  $FAR < 10^{-5}$  and  $FRR < 5 \times 10^{-3}$ .
- For indoor applications only.

Technical data	AR6332-BI
Power supply	12 V DC (+/- 3V)
Current consumption	Max. 100 mA
Operating temperature	0 to +50 °C
Keypad	> 50.000 operations
Colour	Similar RAL 9006
Protection class	IP54 with seal
Standards	89/336/EWG
Connectivity	DC2000 or CC30xx door controller (CerPass reader protocol) Serial connection to PC or to ANC1616-B
Dimensions	147 x 48 x 30 (w x h x d) mm
Material	PC / ABS plastic (injection moulding), painted
ESD Protection	8kV air discharge on the sensor surface
Error Rates	$FAR < 10^{-5}$ , $FRR < 5 \times 10^{-3}$
Booking times	Identification mode: 1s encoding + 30ms/stored finger Verification mode: 1s

## Installation

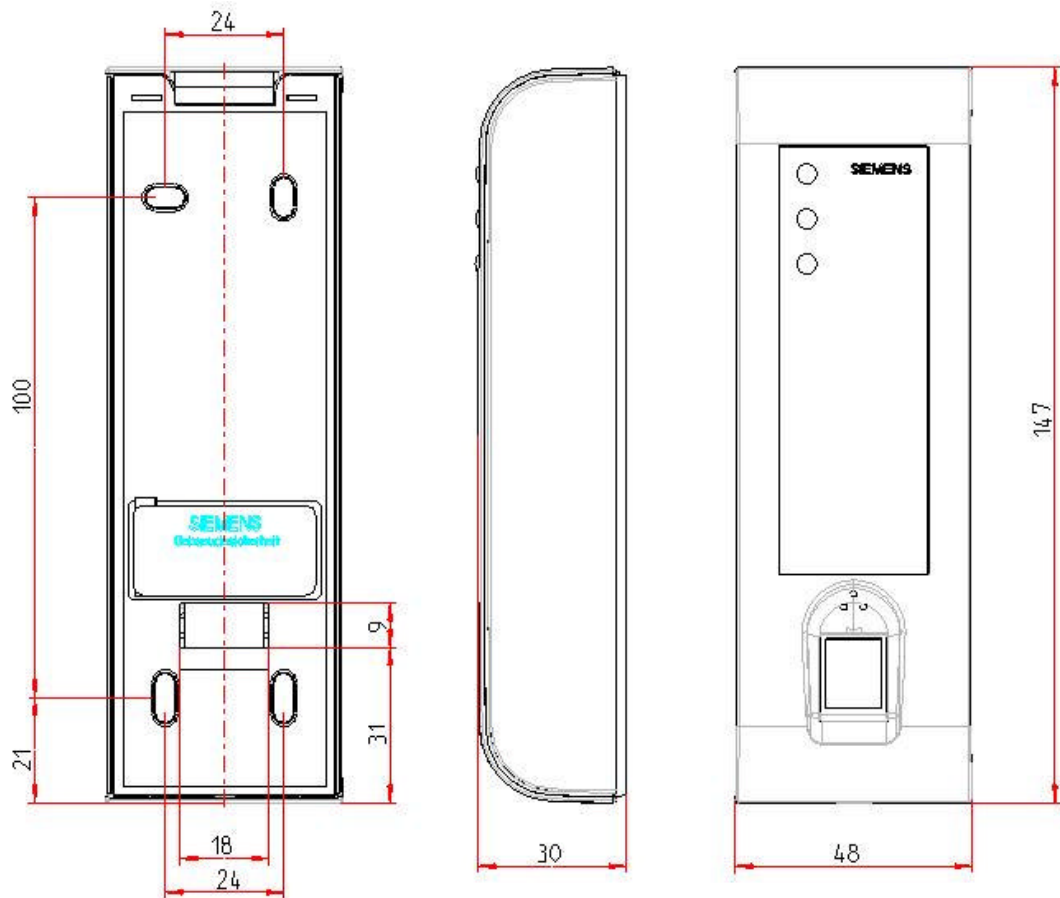
Installation improved for wall mounting (installation accessories are included with the reader). Recommended assembly height (for ergonomic reasons) 150cm.

Connection to door control unit CC30xx, DC2000 or Dual Reader Interface via RS485 2-wire party line.

Connection to the Bio FTM application via RS232 special connection or via LAN with the ANC1616-B device.

## Dimensions (mm)

AR6332-BI



**Specifications / advantages**

<b>Siemens Reader AR6332-BI</b>	<b>Other Biometric readers to be found on the market</b>
+ Fingerprint Identification or verification with PIN	Only verification
+ Identification- and verification with PIN modes to be set on the same hardware	Not adjustable
+ Fingerprint templates to be downloaded directly or via LAN	Download either via LAN or via RS485 Bus Not adjustable
+ Possible data encryption on the LAN interface by using the ANC1616-B device	No encryption
+ Possible mixed mode with normal card readers on a same door controller.	Separate network for the biometric readers
+ Integrated in the access control system.	No interface to the access control system
+ Easy management of the fingerprint templates integrated in the access control application	Separate application for the management of the fingerprint templates
+ Templates database	No database if storage on a card
+ Modern industrial design	-
+ ESD: improved for air discharge about 8kV	ESD<4kV or optical sensors
+ SFP: Special Finger Placement (optimised finger guide, patent pending)	No finger adjustment
+ Automatic templates synchronization	Manual synchronization
+ Possible Management by "Drag and drop"	-
+ A backup solution is available if the user does not have any fingerprints	Backup solution is necessary for the persons without any fingerprint
+ Possible visualization of the real fingerprint image	Only the biometric templates are considered
+ Possible visualization of the system status for possible delayed updates	All the updates occur immediately, no possible delay
+ IRC: Intelligent Reader Capacity calculation (Evaluation of the still free memory capacity)	Limited capacity (fixed feature)
+ FSS: Finger Surface Storage. 3 pictures are taken for each finger	Several pictures can be taken for each finger
+ System and Error Logbooks	Some specific logbook could exist
+ Possible Multi-station management	Only 1 Master station
+ Error rates evaluated on the field	Only theoretical error rates

**Details for ordering**

Type	Order-No.	Description	Net weight (approx.)
AR6332-BI	6FL7173-8AA	AR6332-BI – Fingerprint reader for identification or verification with PIN	0.2 kg

**Related components**

ANC1616-B	6FL7023-8AA	RS232/LAN converter	0.4 kg
Special cable	6FL7173-8BA	4-wires cable and 9-pol. Connector (direct connection to a PC)	
Special cable	6FL7173-8BB	10-wires Flex cable with 9-pol. und 10-pol. Connectors (temporary direct connection to a PC)	
Special cable	6FL7173-8BC	4-wires cable with 25-pol. Connector (connection to the ANC1616-B device)	
Bio FTM German Version	6FL7173-8CA	Application used for the enrolment and the Management of the fingerprint templates German Version	
Bio FTM English Version	6FL7173-8CB	Application used for the enrolment and the Management of the fingerprint templates English Version	

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Subject to change