

Fingerprint Series

Standard and keypad biometric readers



Standard | Keypad

Optical fingerprint readers combining biometric verification and RFID credentials. Choose a network version with templates stored in the reader or a non-network version with templates stored on the access card.

Design and functions

- Network version: 12,500 users and up to 25,000 fingerprint templates.
- Network enrollment uses an enrollment device and software; template synchronization uses TCP/IP.
- Non-network version: offline enrollment using a function card, with capacity determined by the access card.
- Network modes: card only, fingerprint only, card + fingerprint, or fingerprint or card.
- Non-network modes: card only, card + fingerprint, or PIN in card.
- Metal universal backplate supports metal-surface and back-to-back mounting.
- Reverse-power and static-charge protection.

Configuration and operation

Configuration window	5 seconds by default or 30 minutes after power-up
Reader output formats	32-, 34- or 56-bit CSN/UID forward/backward; file-content reading for programmed ID
Controller settings	Configurable Wiegand pulse width, keypad output, buzzer control and LED colour response

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Technical specifications

RFID technologies	Network: 125 kHz + 13.56 MHz Mifare/DESFire; non-network: 13.56 MHz Mifare/DESFire
Read range	1–8 cm, depending on RFID technology
Output	Wiegand; RS232 and RS485 optional
Wiring distance	150 m using 22 AWG shielded cable
Scanner / template size	Optical / 384 bytes
Verification time	1 second per 1,000 stored fingerprints
Keypad output	4-bit default / 8-bit / 26-bit
Supply / current	10–15 VDC / 250 mA max
Temperature	–20 to +60 °C
Humidity	20–85%, non-condensing
Dimensions	186 × 85 mm; body depth 22 mm; scanner depth 31.5 mm
Weight / housing	330 g / PC + ABS
Finishes	Black case/black cover; beige case/silver cover; white case/silver cover

Model selection

Model structure	A1 A2 A3 D1 D2 D3 – D4 X1
RF prefix	HR = 125 kHz; WSE = WSE + EM; MW = Mifare; DM = Mifare/DESFire EV1/EV2; MT = multi-technology; TH = multi-technology + 125 kHz
Reader / trim	D1: 8 = fingerprint; D2: A = black belt, B = silver belt
Template storage	D3: 4 = card; 5 = reader
Connection / keypad	D4: A = terminal + TCP/IP; suffix N = no keypad, K = keypad