

RFID ACCESS CARD + BIOMETRIC READER

MULTI-TECHNOLOGY MIFARE® DESFIRE® EV2 & EV3, NFC SMARTPHONES



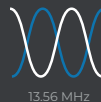
Available in touchscreen or keypad versions



BENEFITS

- Strong multi-factor authentication
- GDPR legislation compliant
- Embedded anti-fraud features
- Interoperable and multi-protocol

Compliant



- Add your logo
- 2 configurable multicolor LEDs

The Architect® biometric reader combines the latest RFID MIFARE® DESFire® EV2 technologies with digital fingerprint recognition to ensure a strong authentication of the user and enhance the security of your access control system.

EASY FINGERPRINT MANAGEMENT

Different possibilities of fingerprint management depending on your security needs:

- **Fingerprint templates directly stored in the RFID card** (CNIL French & GDPR European legislation compliance)
- **Fingerprint templates stored in the system**
- **Card only mode with derogation at the card level** (one-time visitor, difficult finger...)
- **Smartphone* with biometric unlocking or Smartphone only with derogation**

WELCOME TO HIGH SECURITY

The reader uses the latest MIFARE® DESFire® EV2 & EV3 contactless chip technologies with new data security mechanisms:

- **Secure Messaging EV2:** secure transaction method based on AES-128 with protection against interleaving and replay attacks.
- **Proximity Check:** improved protection against relay attacks.

All public encryption algorithms can be used (3DES, AES, RSA, SHA, etc.), which are recommended by official data security agencies (such as the French national agency ANSSI).

ULTIMATE SELF-PROTECTION

The patented motion sensor pull detection system protects sensitive data by allowing authentication keys to be erased.

Unlike existing solutions within this market, the reliability of the accelerometer avoids potential system bypass.

ADVANCED ANTI-FRAUD FUNCTIONS

The Architect® biometric reader is designed to resist fraud attempts:

- **False finger detection:** the reader detects a wide range of counterfeit fingerprints made of latex, Kapton, transparent film, rubber, graphite, etc.
- **Detection of live fingers**
- **Duress finger:** the admin can assign a finger number dedicated to authentication when the user is threatened.

*The smartphone can be used as a biometric derogation. No fingerprints are stored in the virtual badge.

SPECIFICATIONS

Operating frequency / Standards	13.56 MHz: ISO14443 types A & B, ISO18092
Technology compatibilities	MIFARE® Classic & Classic EV1 (4 kb), MIFARE® Plus® (S/X) & Plus® EV1, MIFARE® DESFire® 256 (1 fingerprint), EV1, EV2 & EV3 STid Mobile ID® (NFC virtual card)
Functions	Read only CSN and secure (file, sector) / Controlled by protocol (read-write)
Digital fingerprint sensor	Optical (SAFRAN MorphoSmart™ CBM E3) - ≤ 1 second for a 1:1 authentication Fingerprint stored in the RFID card or in the system
Communication interfaces & protocols	TTL Clock&Data (ISO2) or Wiegand output (encrypted communication option - S31) / RS232 & RS485 outputs (encrypted option - S33) with SSCP® v1 & v2 secure communication protocols; OSDP™ v1 (plain) and v2 (Secure Channel Protocol)
Decoder compatibility	Compatible with EasySecure interface (encrypted communication)
Reading distances**	Up to 8 cm / 3.15" with a MIFARE® DESFire® EV2 or Classic card
Light indicators	2 RGB LEDs - 360 colors ▲ ▲ ▲ Configuration by card RFID, software, external command (0V) or according to the interface
Audio indicator	Internal buzzer Configuration by card RFID, software, external command (0V) or according to the interface
Relay	Automatic tamper detection management or SSCP® / OSDP™ command according to the interface
Power requirement	Max 280 mA / 12 VDC
Power supply	7 VDC to 28 VDC
Connections	10-pin plug-in connector (5 mm / 0.2") / 2-pin plug-in connector (5 mm / 0.2"): O/C contact - Tamper detection signal
Material	ABS-PC UL-V0 (black)
Dimensions (h x w x d)	148.6 x 80 x 71.3 mm / 5.85" x 3.14" x 2.8" (general tolerance following ISO NFT 58-000 standard)
Operating temperatures	- 10°C to + 50°C / 14°F to 122°F
Tamper switch	Accelerometer-based tamper detection system with key deletion option (patented solution) and/or message to the controller
Protection / Resistance	IP65 - Weather-resistant with waterproof electronics (CEI NF EN 61086 homologation) Humidity: 0 - 95%
Mounting	Compatible with any surfaces and metal walls - Wall mount / Flush mount: - European 60 & 62 mm / 2.36" & 2.44" - American (metal/plastic) - 83.3 mm / 3.27" - Dimensions: 101.6 x 53.8 x 57.15 mm / 3.98" x 2.09" x 2.24" - Examples: Hubbel-Raco 674, Carlon B120A-UP
Certifications	CE (Europe), FCC (USA), IC (Canada) and UL
Part numbers	Secure read only - TTL.....ARC-R31-D/PH5-xx/1 Secure read only / Secure Plus - TTL.....ARC-S31-D/PH5-xx/1 Secure read only - RS485.....ARC-R33-D/PH5-7AB/1 Secure read only / EasySecure interface - RS485ARC-R33-D/PH5-7AA/1 Secure read only / Secure Plus - RS485.....ARC-S33-D/PH5-7AB/1 Secure read only / Secure Plus / EasySecure interface - RS485ARC-S33-D/PH5-7AA/1 Controlled by SSCP® v1 protocol - RS485.....ARC-W33-D/PH5-7AA/1 Controlled by SSCP® v2 protocol - RS485.....ARC-W33-D/PH5-7AD/1 Controlled by OSDP™ v1 & v2 protocol - RS485.....ARC-W33-D/PH5-7OS/1

DISCOVER OUR CREDENTIALS AND OUR ERGONOMIC MANAGEMENT TOOLS



13.56 MHz or dual frequency
ISO cards & key holders



Decorative plate / Spacer /
Converter cables / Mounting plate...



SECARD
SECard configuration kit and
SSCP® v1 & v2 and OSDP™ protocols

**Caution: information about the distance of communication: measured from the center of the antenna, depending on the type of credential, size of the credential, operating environment of the reader, temperatures, power supply voltage and reading functions (secure reading). External interference may reduce reading distances.
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