

# MULTI-TECHNOLOGY KEYPAD READER

125 kHz MULTI-PROX, MIFARE® DESFIRE® EV2 & EV3, NFC



Available in touchscreen and standard versions



## BENEFITS

- Compatible with legacy Prox 125 kHz technologies
- Seamless migration to secure technologies
- Multi-factor identification with capacitive keypad
- Modular concept for maximum cost optimization



- Print your logo
- Casing color
- Skin effect customization

The Architect® Hybrid Multi-Prox reader facilitates your migrations to secure technologies. It combines two identification technologies 125 kHz and 13.56 MHz with a capacitive vandal-proof keypad.

## MULTI-TECHNOLOGY READER

Offering support for the widest range of contactless identification technologies, the reader is the ideal choice for making a gradual transition to high security. It simplifies management of upgrades, technological migrations and complex multi-site configurations.

### 125 kHz Prox technologies

The reader is compatible with many legacy Prox technologies: EM®, HID Proximity®, AWID®, INDALA®, IOPROX®...

### RFID MIFARE® DESFire® EV2 & EV3

It supports the latest contactless technologies with new data security features:

- **Secure Messaging EV2:** protection against attacks via interleaving and replay.
- **Proximity Check:** protection against relay attacks.

The reader supports the use of public security algorithms recognized by specialized and independent organizations in information security (ANSSI French cybersecurity agency and FIPS).

## VANDAL-PROOF CAPACITIVE KEYPAD

Equipped with a backlit keypad, the reader allows multi-factor identification of users by combining the reading of an RFID card with the input of a personal keypad code.

Thanks to its different operating modes, the keypad can be used for identification or to activate additional functions (alarm...).

The same reader can also operate in multiple mode e.g. it authorizes card reading for personnel or just code entry for visitors or temporary workers.

## OPEN TECHNOLOGIES FOR EASY INTEGRATION

The reader is compatible with many access control systems and accepts multiple interfaces and protocols (Wiegand and OSDP™ v1 & v2).

## A CUSTOMIZED SCALABLE CONFIGURATION

The reader can be customized to meet your needs: all the features and security levels of the readers in your organization can be upgraded - by RFID card or protocol.

The scalability allows you to remove the 125 kHz module once your technology migration is completed and/or to implement new functionality such as a touchscreen.

## STANDING THE TEST OF TIME

The design of the reader makes it very robust in harsh environments. It can therefore be used outdoors and offers high levels of resistance to vandalism (IK08 certified).

## SPECIFICATIONS

Operating frequency / Standards	125 kHz 13.56 MHz: ISO14443 types A & B, ISO18092
Technology compatibilities	EM42xx / EM4x50, HID Proximity®, INDALA® (Wiegand 26 & 27 bits), IOPROX®, AWID® MIFARE® Ultralight® & Ultralight® C, MIFARE® Classic & Classic EV1, MIFARE Plus® (S/X) & Plus® EV1, MIFARE® DESFire® 256, EV1, EV2 & EV3, PicoPass® (CSN only), iCLASS™ (CSN only*), NFC, HCE
Functions	CSN, pre-configured (Easyline - PC2) and secure read-only / Controlled by protocol (read/write)
Communication interfaces & protocols	Wiegand output RS485 output with OSDP™ v1 (plain communication) and v2 (SCP secure communication) protocols
Keypad	Sensitive / capacitive keypad - 12 backlit keys / Modes: Card AND Key / Card OR Key Configurable by RFID card or software depending on interface
Reading distances**	Up to 6 cm / 2.36" with a 125 kHz card Up to 6 cm / 2.36" with a MIFARE® DESFire® EV2 card
Light indicator	2 RGB LEDs - 360 colors ▲ ▲ ▲ Configuration by RFID card, software or external command (0V) or according to the interface
Audio indicator	Internal buzzer Configuration by RFID card, software or external command (0V) or according to the interface
Relay	Automatic tamper direction management or OSDP™ command according to the interface
Power requirement	200 mA / 12 VDC Max
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)	145.6 x 80 x 25.7 mm / 5.7" x 3.15" x 0.98" (general tolerance following ISO NFT 58-000 standard)
Operating temperatures	- 30°C to + 70°C / - 22°F to + 158°F
Tamper switch	Accelerometer-based tamper detection system with key deletion option (patented solution) and/or message to the controller
Protection / Resistance	IP65 Level - Weather-resistant with waterproof electronics (CEI NF EN 61086 homologation) Humidity: 0 - 95% / Reinforced IK08 certified vandal-proof structure
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), UKCA (United Kingdom) and UL
Part numbers	Easyline pre-configured - Wiegand protocol ..... ARC-RX1-JM/PC2-3x/1 Wiegand protocol ..... ARC-RX1-JM/BF5-3x/1 Controlled by OSDP™ protocol - RS485 ..... ARC-WX3-JM/BF5-7OS/1

## DISCOVER OUR CREDENTIALS AND MANAGEMENT TOOLS



ISO cards & key holders  
(125 kHz, 13.56 MHz,  
dual frequency...)



NFC smartphones  
using STid Mobile ID®  
application



SECard  
SECard configuration  
kit and OSDP™ V1 & V2  
protocols

Detection zone  
13.56 MHz + NFC

Detection zone  
125 kHz



\*Our readers only read the iCLASS™ chip serial number / UID PICO1444-3B. They do not read iCLASS™ cryptographic protection or the HID Global serial number / UID PICO 15693.

\*\*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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