QxControl™ & STiD Architect®

MULTI-TECHNOLOGY KEYPAD READER

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

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.

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

Available in standard and touchscreen versions

HIGHLIGHTS

Features

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

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 MIFARE® DESFire® EV2 & EV3 contactless technologies with new data security features:

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

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).

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 (certified IK08).

A CUSTOMIZED SCALABLE CONFIGURATION

The Architect® 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.

SPECIFICATIONS

Operating frequency / Standards	125 kHz 13.56 MHz: ISO14443 types A and B, ISO18092
Chip compatibility	EM42xx / EM4x50, HID Proximity®, INDALA® (Wiegand 27 bits only), 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	ensitive / capacitive keypad - 12 backlit keys / Modes: Card AND Key / Card OR Key Configurable by RFID card, UHF technology or software depending on interface
Reading distances**	Up to 8 cm / 3.14" with a 125 kHz card Up to 8 cm / 3.14" with a MIFARE DESFire® EV2 card
Light indicator	2 RGB LEDs - 360 colors Configurable by RFID card, UHF technology, software or controlled by external command (0V) according to interface
Audio indicator	Internal buzzer Configuration by RFID card, software, external command (0V) or UHF technology according to the interface
Relay	Automatic or OSDP™-controlled anti-tearing management depending on 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
Materials	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 excluding connectors - weather, water and dust resistant (CEI NF EN 61086 homologation) Humidity: 0 - 95% / Reinforced IK10 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) and UL

Part Numbers:

ARC-RX1-JM/PC2-3x/ : Easyline pre-configured - Wiegand protocol
ARC-RX1-JM/BF5-3x/1: Wiegand protocol
ARC-WX3-JM/BF5-7OS/1: Controlled by OSDP™ protocol - RS485

Detection zone 13.56 MHz + NFC
Detection zone 125 kHz
145,6 mm, 5.7"
39 mm / 1.53"
80 mm / 3.15"
25,7 mm / 0.98"

*Our readers only read the / UID PICO1444-3B serial number of the iCLASS™ chip. They do not read the cryptographic protections iCLASS™ nor the / UID PICO 15693 serial number of HID Global.
**Warning: Communication distances are measured at the center of the antenna. Measured at the center of the antenna, they depend on the antenna configuration, the installation environment of the player, the power supply voltage, and the playback mode (secure or not). External disturbances can cause the reading range to decrease.