# XPRO

## *XP - Multi-Technology Mifare Readers*



Multi-technology Mifare readers compatible with nearly all access controllers on the market.

They can read 13.56 MHz credentials and communicate with Wiegand, OSDP and RS-485 protocols.

Identifiers, communication protocol and firmware updates can be done using our Product Manager software via the USB-C input on the back of the reader or with a programming card (requires PROX-USB-X).

This option offers full flexibility and scalable functionality. Fobs/Cards and reader encryption is possible thanks to the MIFARE® DESFire® technology.

## FEATURES

- Mounting: Surface mount
- Housing: Polycarbonate copolymer (UL94)
- Internal buzzer with adjustable intensity using software
- Communication: Wiegand, RS-485, OSDP
- Reading range: Up to 9 cm, depending on the tag type and size
- Operating frequency: 13.56 MHz
- Tamper protection: yes
- Wiring: Terminal block
- Operating voltage: 9 - 15 V DC
- Max. consumption at 12 V DC: 100 mA
- Supported Credentials: Mifare CSN (Classic, DESfire, Plus, Ultralight), NTAG CSN, ISO 15693, Mifare DESfire (EV1, EV2, EV3), Xsecure
- Models: XP-MF-WO, XP-MF-WO-X, XP-MFBT-WO, XP-MFBT-WO-X (features per model, see Table 1.)

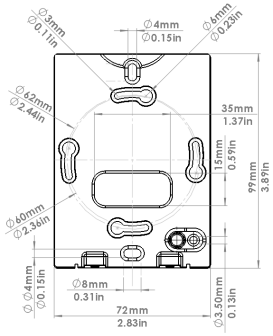
### ENVIRONMENTAL FEATURES

- Environmental rating: Indoor/ Outdoor IP65 (resin potted)
- Operating temperature: -30°C to +70°C
- Operating humidity: 5% to 95% RH (non-condensing)
- Impact protection rating: IK 11

## DIMENSIONS



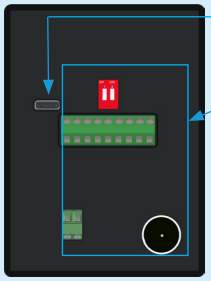

Housing




Back plate

*Compatible with UK, EMEA and US standard mounting*

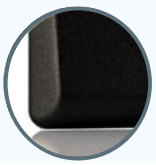
### CONNECTIVITY



**USB-C:** For configuration and firmware update

**Wire terminals**
- Power
- RS-485
- Wiegand D0, D1
- LED, Buzzer control
- Tamper

## COLOUR



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### SOFTWARE

**Product Manager**

The **Product Manager** is user-friendly software for configuring *XPR Readers* Multi-Technology readers.

You can select the type(s) of identifier(s), the mode of communication as well as firmware update if necessary.

You can also adjust or remove settings such as the intensity of the LEDs, the sound level of the buzzer and customise the RS-485 communication. The software is available in English and is compatible with Windows operating systems.

*All product specifications are subject to change without notice.*

# xpr Readers

## VARIANTS

Table 1.

| References | Functions and credentials | | | Communication | | Firmware Upgrades / Program-ming |
|---|---|---|---|---|---|---|
| | 13.56 MHz CSN (ISO 14443-A (MIFARE®), ISO 15693, HID® iClass, LEGIC®, NFC®) | Card Encryption DESFire® EV1, EV2 & EV3 Xsecure | Mobile ID (Bluetooth) | Wiegand 24 to 66 bits (by default 34 bits | OSDP v2 | USB-C |
| XP-MF-WO | V | X | X | V | V | V |
| XP-MF-WO-X | V | V | X | V | V | V |
| XP-MFBT-WO | V | X | V | V | V | V |
| XP-MFBT-WO-X | V | V | V | V | V | V |

## LEDs

**LEDs** managed by the host controller.



Blue **LED** | Green **LED** | Red **LED**

## ACCESSORIES



### PROX-USB-X

RFID desktop configurable R/W reader with keyboard emulation (Windows, MAC, Linux) for easy enrolment. Compatible credentials: MIFARE® (Classic, Ultralight, DESFire®), EM 4100, HID 125 kHz, ISO 15693, iClass CSN, Xsecure and NFC.



### Mifare Fobs & Cards

Different contactless fobs and cards:
- Mifare available with 1 KB and 4 KB memory.
- Mifare DESfire EV3 available with 2K memory.
- Xsecure Mifare DESfire EV3 available with 2K memory.

Available in different types of support:
ISO cards and ABS key fobs.



## Xsecure

The **X**secure solution is based on the concept of writing the identifier as **data on pre-coded MIFARE® DESFire® EV3 13.56 MHz cards**.

**X**secure enables each card access key to be **distinct and unique**, produced through **an irreversible diversification process**. As a result, the data on **the card is encrypted and sealed** again, with an error checking against spoofing.

**Only the reader and the production card encoding system are aware of this operation.**

XPR encodes the cards and validates the identifiers issued **to avoid duplication.**