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.

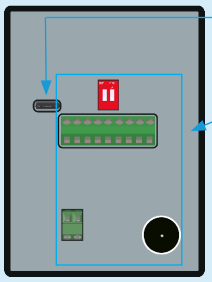
FEATURES

- 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: Xsecure®, Mifare CSN (Classic, DESfire, Plus, Ultralight), NTAG CSN, ISO 15693
- 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: -35°C to +70°C
- Operating humidity: 0% to 95% RH (non-condensing)
- Impact protection rating: **IK 11**

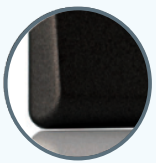
CONNECTIVITY



USB-C: For configuration and firmware update

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

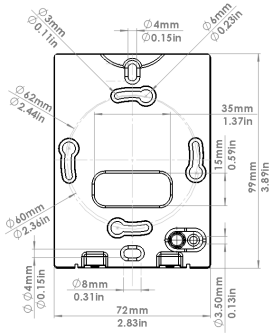
COLOUR



Black

DIMENSIONS

Housing



Back plate

Back plate compatible with UK, EMEA and US standard and most electrical gang mountings

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 customize the RS-485 communication. The software is available in 7 languages and is compatible with Windows operating systems.

CE UKCA

OSDP™ MIFARE NXP

All product specifications are subject to change without notice.

xpr Readers

VARIANTS

Table 1.

References	Functions and credentials			Firmware Upgrade / Programming	
	13.56 MHz CSN (ISO 14443-A (MIFARE®), ISO 15693, HID® iClass, NFC®)	Custom Encryption DESFire® EV1, EV2 & EV3	Mobile ID	USB-C	Default Credential
XP-MF-WO	V	V	X	V	Mifare CSN
XP-MF-WO-X	V	V	X	V	Xsecure®
XP-MFBT-WO	V	V	V	V	Mifare CSN
XP-MFBT-WO-X	V	V	V	V	Xsecure®

LEDs

LEDs managed by the host controller.

Blue **LED**

Green **LED**

Red **LED**

ACCESSORIES

PROX-USB-X

RFID USB desktop device.
RFID configurable R/W reader with key-board emulation (Windows, MAC, Linux).
It reads Mifare classic, Mifare DESfire, NFC, ISO 15693 and Xsecure® cards.

XP-SPACER

Surface mount spacer.
With knock-outs on each side and fitting perfectly to the housing backplate, it is the ideal accessories to wire the reader easily if there is not a lot of room for connecting the reader during the installation.

XP-ATP

This ABS cover is not compulsory for external use but recommended if you wish to protect the reader further against harsher weather conditions, UVA and dust. It offers also a significant level of vandal resistance if needed.

Mifare Fobs & Cards

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

Xsecure 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.**