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xpr

xpr XP Series RFID Keypads and Readers

xpr XP Series RFID Keypads and Readers Installation Guide

Contents

XP Series RFID Keypads and Readers

Product Specifications

- Model: XP, XP-K & XPM
- RFID Keypads and Readers
- Power Supply: 9 – 15 V DC
- Max Current Consumption at 12 V DC: 100 mA
- Reading Distance: Up to 9 cm for XP/XP-K, Up to 8 cm for XPM
- Operating Temperature: External, IP65
- Dimensions: XP & XP-K 107 x 80 x 27 mm & XPM 114 x42 x 27 mm

Product Usage Instructions

Mounting
To mount the device:

1. Surface mount the device securely.
2. Wrap the wires around the ferrite core provided in the kit to reduce EMI.

Power Supply Connection
Connect the power supply using the following connections:

- +12V IN
- GND (Ground)

LED Indicators
The device features LED indicators for visual feedback. Green LED indicates power input, and Red LED indicates Wiegand output.

RS-485 Connection
Connect the RS-485 lines A(+) and B(-) for communication.

Buzzer and Tamper Connections
Connect the buzzer input and tamper connections as needed for your setup.

Frequently Asked Questions (FAQ)
What is the maximum reading distance of the device?The device has a reading distance of up to 9 cm for XP/XP-K and up to 8 cm for XPM.

XP, XP-K & XPM: RFID Keypads and Readers

INSTALLER'S MANUAL

PRODUCT REFERENCES

XP

XP-MF-W
XP-MF-W-X
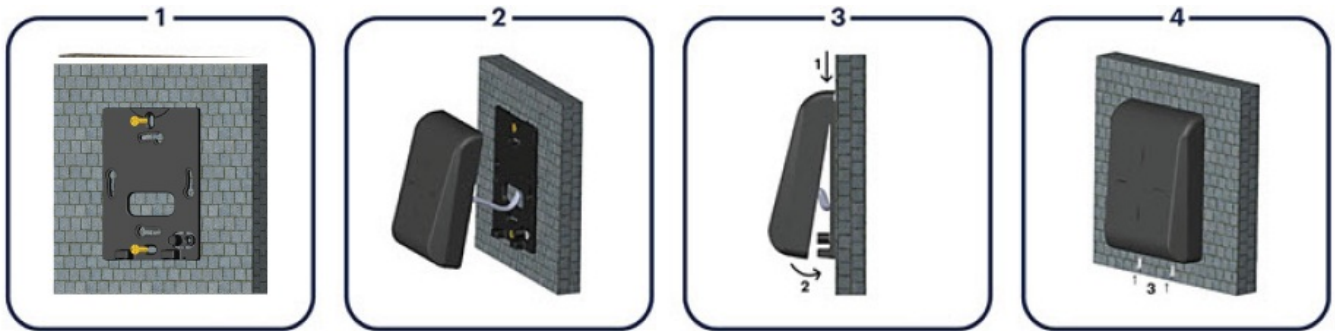XP-MF-RS
XP-MF-RS-X

XP-K

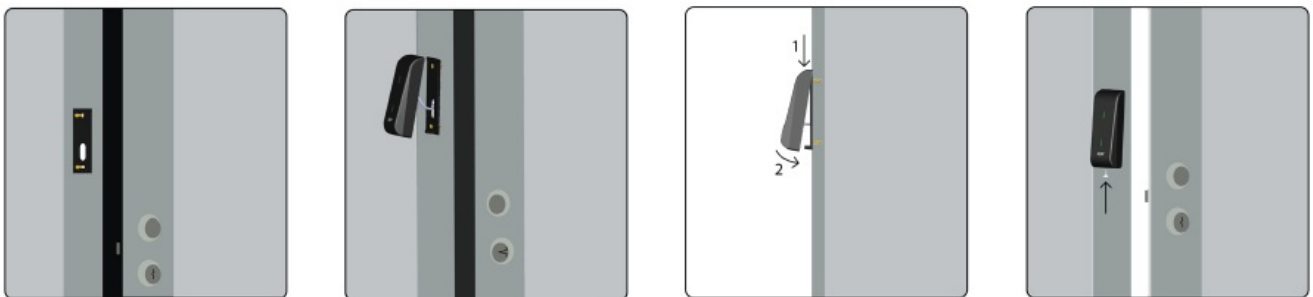XP-K-MF-W
XP-K-MF-W-X
XP-K-MF-RS
XP-K-MF-RS-X

XPM

XPM-MF-W
XPM-MF-W-X
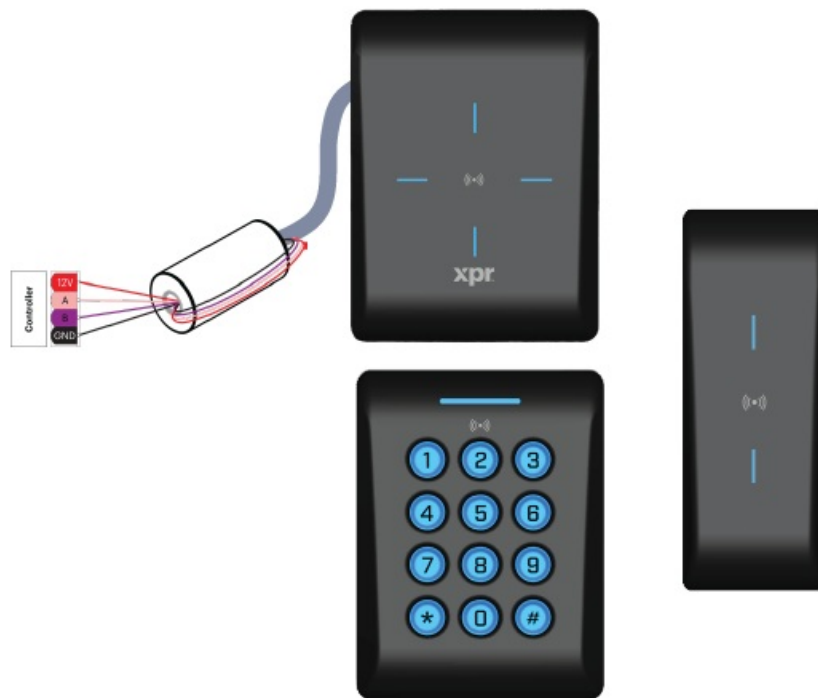XPM-MF-RS
XPM-MF-RS-X

XP & XP-K
MOUNTING

XPM
MOUNTING

FERRITE CORE MOUNTING

- Wrap the wires around the ferrite core (1 turn).

  The ferrite core is provided with the kit and it is used to reduce the EMI.
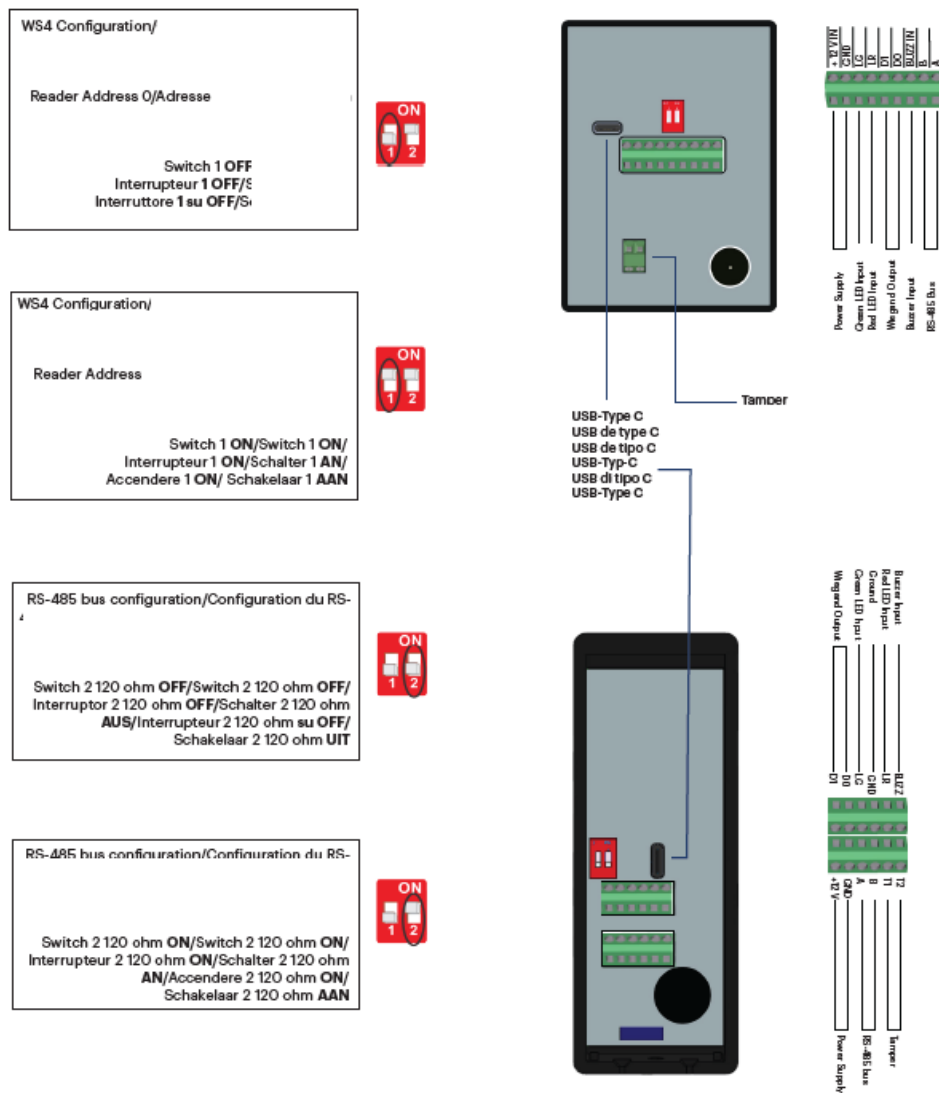
TECHNICAL FEATURES

TECHNICAL FEATURE	
POWER SUPPLY	9 – 15 V DC
MAXIMUM CURRENT CONSUMPTION AT 12	100 mA
SOUND INDICATOR	Internal buzzer/B
LED INDICATORS	RGB (Red, Green, Blue)/
USB-TYPE C CONNECTOR	Built-in USB-Type C connector for protocol selection, configuration and firmware update
READING DISTANCE	Up to 9cm for XP/XP-K,Up to 8cm for XPM
ENVIRONMENTAL RATING/	Outdoor, IP65/
OPERATING TEMPERATURE	-30°C to +70°C/ -30°C à +70°C -30°C a +70°C/ -30°C to +70°C da -30°C a +70°C/ -30°C tot +70°C
OPERATING HUMIDITY	5% – 95% relative humidity, non-condensing
MOUNTING	Surface mount
CABLING CONNECTION	Termina
DIMENSIONS (H X W X D)	XP & XP-K 107 x 80 x 27 mm & XPM 114 x42 x 27
Impact protection rating	XP & XPM: IK 11 XP-K: IK 10

TERMINALS

TERMINALS	DESCRIPTION	WS4 CONFIGURATION	WIEGAND CONFIGURATION
A	RS-485 line	RS-485 A (+)	X
B	RS-485 line	RS-485 B (-)	X
DO	Output	X	DO
D1	Output	X	D1
LG	Input	X	Green LED Input/Entrée LED verte/
LR	Input	X	Red LED Input/
BUZZ	Input	X	X
+12V	Power Supply	✓	✓
GND	Ground	✓	✓
T	Tamper	X (Tamper state is reported by RS-485)	✓

XP, XP-K & XPM: TERMINAL BLOCKS AND DIPSWITCH/BORNIERS ET DIPSWITCH

WS4 Configuration/

Reader Address 0/Adresse

Switch 1 **OFF**
Interrupteur 1 OFF/S
Interruttore 1 su OFF/S

WS4 Configuration/

Reader Address

Switch 1 **ON**/Switch 1 **ON**/
Interrupteur 1 **ON**/Schalter 1 **AN**/
Accendere 1 ON/ Schakelaar 1 **AAN**

RS-485 bus configuration/Configuration du RS-

Switch 2 120 ohm **OFF**/Switch 2 120 ohm **OFF**/
Interruptor 2 120 ohm **OFF**/Schalter 2 120 ohm
AUS/Interrupteur 2 120 ohm su OFF/
Schakelaar 2 120 ohm UIT

RS-485 bus configuration/Configuration du RS-

Switch 2 120 ohm **ON**/Switch 2 120 ohm **ON**/
Interrupteur 2 120 ohm **ON**/Schalter 2 120 ohm
AN/Accendere 2 120 ohm **ON**/
Schakelaar 2 120 ohm **AAN**

Power Supply
Green LED Input
Red LED Input
Wiegand Output
Buzzer Input
RS-485 Bus

Tamper

USB-Type C
USB de type C
USB de tipo C
USB-Typ-C
USB di tipo C
USB-Type C

Wiegand Output
Green LED Input
Ground
Red LED Input
Buzzer Input

D1
DO
LG
LR
BUZZ
+12 V
GND
A
B
T1
T2

Power Supply
RS-485 bus
Tamper

DIPSWITCH

DIPSWITCH	DESCRIPTION	WS4 CONFIGURATION	WIEGAND CONFIGURATION
SW 1	Setup Installation	The readers for Doors 1.0 and 2.0 must be at address 0 and those for Doors 1.1 and 2.1 at address	X
SW 2	RS-485 120 OHM	✔	X

WIRING

WIRING	DESCRIPTION DESCRIPTIONG	WS4 CONFIGURATION	WIEGAND CONFIGURATION CONFIGURATION WIEGAND
Max length Longueur	Cable Length	80 m	150 m
CABLING	Recommendedcabletype	Multiconductor cable 2 twisted pair with shielding	Untwisted, shielded, 0.22 mm2 min. For longer distance above 20 m use larger diameter.

SIGNALISATION

SIGNALISATION	DESCRIPTION DESCRIPTION	WS4 CONFIGURATIONE	WIEGAND CONFIGURATION
Reader ON-LINE Lecteur En	Reader is in communication with controller	Managed by Controller	Managed by Controller
Reader OFF-LINE	Reader lost communication with controller	Red LED Blinks fast	X

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Documents / Resources

xpr XP Series RFID Keypads and Readers [pdf] Installation Guide
XP-MF-W, XP-MF-W-X, XP-MF-RS, XP-MF-RS-X, XP-K-MF-W, XP-K-MF-W-X, XP-K-MF-RS, XP-K-MF-RS-X, XPM-MF-W, XPM-MF-W-X, XPM-MF-RS, XPM-MF-RS-X, XP Series RFID Keypads and Readers, XP Series, XP Series RFID, RFID, RFID Keypads and Readers, RFID Keypads, RFID Readers, Keypads and Readers, Keypads, Readers

References

- **X XPR Group - Safe access systems provider**
- **User Manual**