

# XS-K-MF-RS-X

13.5 MHz RFID KEYPAD

The RFID keypad is compatible with our WS4 Web server controller.

They can read 13.56 MHz credentials and communicate with our custom RS-485 protocol.

Identifiers, communication protocol and firmware updates can be configured using our XPR Toolbox software via the micro-USB input on the back of the reader or with a programming card. The PROX-USB-X desktop reader is mandatory for this RFID keypad from the Xsmart range.

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

The product is delivered with Xsecure encryption mode to ensure data protection.



## FEATURES

- Mounting: Surface mount
- Housing: ABS
- Keys: Backlit metallic
- Internal buzzer: With adjustable intensity using software
- Reading range: Up to 6 cm, depending on the tag type and size
- Operating frequency: 13.56 MHz
- Tamper protection: When opened or dismantled
- Wiring: Terminal block
- Operating voltage: 9 - 15 V DC
- Current Consumption: Up to 170 mA

### ENVIRONMENTAL FEATURES

- Environmental rating: Indoor/Outdoor IP 65 (resin potted)
- Operating temperature: -30°C to +65°C
- Operating humidity: 5% to 95% RH (non-condensing)

### CONNECTIVITY



**Micro USB:** To connect to the computer for configuration and/or firmware update

**Wire terminals**  
 - Power  
 - RS-485

## LED



Green Backlight  
Access granted



Orange Backlight  
Idle mode

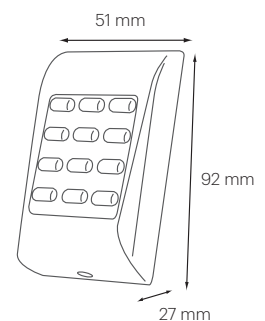


Red Backlight  
Access denied

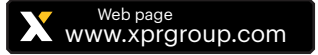
## DIMENSIONS & WEIGHT



~0.15 kg



Web server interface



The WS4 is a simple and powerful access control system with its own built-in web server. There is no software to install; configuration is done simply via an internet browser. Very easy to install and use as all pages are responsive. It offers easy visualization of the status of the system and quick access to different menus directly from the home window.

ACCESSORIES



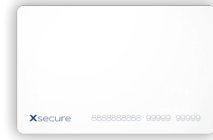
MT-SPACER

Surface mount spacer. With knock-outs on each side and fitting perfectly to the housing back-plate, 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.



PROX-USB-X

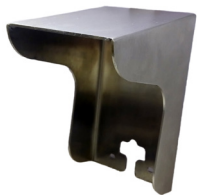
RFID USB desktop device. RFID configurable R/W reader with keyboard emulation (Windows, MAC, Linux). It reads Mifare classic, Mifare DESfire, EM 125 kHz, HID 125 kHz, NFC, ISO 15693, HID iCLASS and Xsecure cards.



Xsecure CARDS - MIFARE® DESfire EV3

MIFARE® DESfire EV3 Cards with 2 KB memory. ISO cards. Xsecure cards are delivered in packages of 50 pieces with consecutive ID numbers.

Card ref.: PBX-2-EV3-2K-X



MC-MINI

This stainless steel cover is not compulsory for external use but recommended if you wish to protect the reader further against harsher weather conditions, UVA and dust. The reader being less exposed if this cover used, it offers also a significant level of vandal resistance if needed.



USP

Fitting plate compatible with US surface/flush mount electrical gang boxes. Also ideal for retrofit to cover pre or old installation (small wall damages, chips, paint work, etc.). Supplied in the same colour as the readers used for a blending aesthetic design.

The **Xsecure** solution is based on the concept of writing the identifier as **data on pre-coded MIFARE® DESFire® EV2 and 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**.