

VR4KMFP

VR4K
SERIES

Vandal Resistant 4000 series Mifare proximity reader with Wiegand output for the Portal Plus access control system



Vandal Resistant 4000 series Mifare proximity reader module

The **VR4KMFP** is a Mifare proximity reader for the **Portal Plus** access control system.

It includes a tri-colour halo LED: green for accept/access granted, red for access denied and amber when idle, providing the user with clear indication of the status of the reader.

Vandal Resistant front fascia

316 grade vertically brushed stainless steel front fascia.

Module protections

IK09 impact protection and **IP55** ingress protection (front fascia). **IP40** ingress protection for the reader plate and halo LED enclosure.

Compatible Mifare fob/card types

Mifare classic, Mifare plus, Desfire and Ultralight fobs/cards.

Audible and visual feedback

Reassurance tones and tri-colour status indication halo LED (green, red & amber).

Wiegand protocols

Wiegand 24bit, 26bit, 32bit, 34bit, 40bit, 42bit, 56bit and 58bit protocols.

Operating frequency & read range

13.56Mhz with a read range of up to 6cm.

Tamper protection

Anti-tamper inputs.

4000 series modular design

Robust modular design compatible with all 4000 series surface and flush back boxes.



IK09



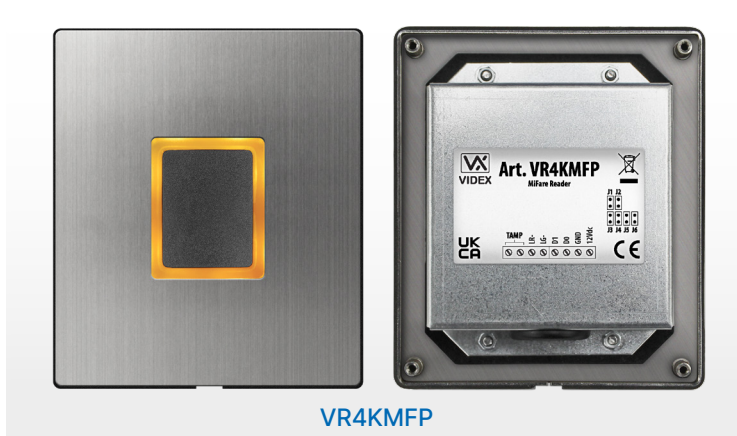
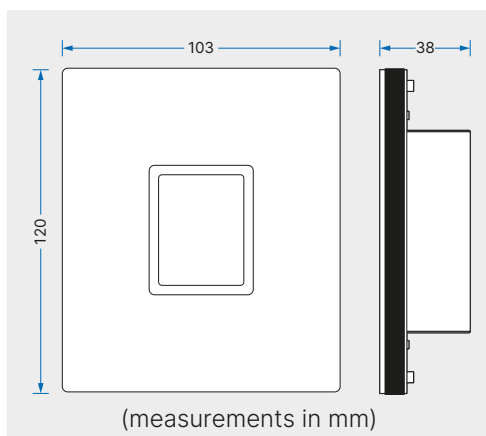
IP55



IP40



THE POWER TO SECURE



Technical characteristics

	VR4KMFP
Description	Vandal Resistant 4000 series Mifare proximity reader that can be integrated with the Portal Plus access control system.
Materials	12 gauge (2.5mm thick) 316 marine grade vertically brushed stainless steel.
Module protections	IK09 impact protection, IP55 ingress protection (for the front fascia) and IP40 ingress protection for the Mifare reader plate and halo LED enclosure.
Halo LED adjustment and reassurance tones	Yes: the halo LED back light (amber when idle/standby) can be enabled (default) <u>or</u> disabled (via J1 jumper), the audible tones can be enabled (default) <u>or</u> disabled (via J2 jumper).
Status indication halo LED	Tri-colour halo LED: when green = accept/access granted, when red = access denied and when amber = reader idle/standby.
Configuration and programming	Initial reader configuration is carried out via a series of jumpers J1 to J6 (for J1 and J2 see above). J3 jumper used for converting 7 byte fob/card ID to 4 byte ID (note : this is only possible for fobs/cards that have 7 byte fob/card ID), these include Mifare Plus , Desfire and Ultralight fobs/cards. J4 and J5 jumpers are used to setup the Wiegand output while jumper J6 is used to enable (default) <u>or</u> to disable NO PARITY.
Compatible Mifare fobs/cards	Fobs include: PBXB-1E-MS50 (blue), PBXBK-1E-MS50 (black), PBXG-1E-MS50 (green), PBXR-1E-MS50 (red). Cards include: PBX-2-MS50 (thin ISO card) and PBX-2-MS70 (thin ISO card). Note : MS50 fobs/cards have a 1K memory and the MS70 card has a 4K memory and are all Mifare Classic fobs/cards.
Mifare fob/card programming	Programming of the Mifare fobs/cards is carried out through the PROS CS (Portal Plus) software when the Mifare reader is connected to an EWS/EWSi controller <u>or</u> using the desktop USB reader (PROX-USB) via the PROS CS (Portal Plus) software.
Operating frequency	13.56Mhz.
Read range	From 1 - 6cm.
Wiegand output	Wiegand: 24bit, 26bit (default), 32bit, 34bit, 40bit, 42bit, 56bit and 58bit, configurable via the jumpers J4 , J5 and J6 (see above).
Terminal connections	Power input: +12V/GND , tamper input: 2x TAMP , Wiegand: DO/D1 and red/green halo LED indication: LR-/LG- .
Anti-tamper inputs	Yes (see terminals above).
Module Size	1 module 4000 series: 103 (W) x 120 (L) x 38 (D) mm.
Working voltage	9-14Vdc power input (powered directly from the EWS/EWSi controller).
Current rating	150mA (max.).
Working temperature	-20° ~ +50°C.



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