VR4KEMP

VR4K SERIES

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

Portal Plus

HID COMPATIBLE

Vandal Resistant 4000 series EM & HID proximity reader module

The **VR4KEMP** is a EM (4002/4100) and HID (125kHz) 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 proximity fob/card types

EM 4002-4100 fobs/cards and HID 125kHz 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, 35bit, 37bit, 40bit and 42bit protocols.

Operating frequency & read range

125kHz 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.

IK 09 IK09

IP 55 IP55

IP 40 IP40

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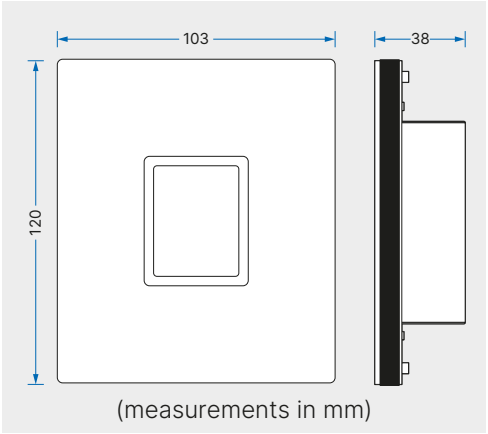

(measurements in mm)

VR4KEMP

Technical characteristics

	VR4KEMP
Description	Vandal Resistant 4000 series **EM** (4002/4100) and **HID** (125kHz) 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 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) **or** disabled via dip-switch **1** (**ON/OFF**), the audible tones can be enabled (default) **or** disabled via dip-switch **2** (**ON/OFF**).
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 dip-switches **1** to **6** (for dip-switches **1** and **2** see above). Dip-switches **3** and **4** are used to setup the Wiegand output while dip-switch **5** is used to enable (default) **or** to disable NO PARITY. Dip-switch **6** is used for fob/card type (**ON = EM** fob/card, **OFF = HID** fob/card).
Compatible proximity fobs/cards	Fobs include: **PBX1E** (grey ABS fob, EM format 125kHz) and **PBX1E-LG** (grey ABS fob with custom logo, EM format 125kHz). Cards include: **PBX2** (thin ISO card, EM format 125kHz) and **PBX2C** (thick ISO card, EM format 125kHz). **HID** 125kHz fobs/cards.
Fob/card programming	Programming of the proximity fobs/cards is carried out through the **PROS CS (Portal Plus)** software when the reader is connected to an **EWS/EWSi** controller **or** using the desktop USB reader (**PROX-USB**) via the **PROS CS (Portal Plus)** software.
Operating frequency	125kHz.
Read range	From 1 - 6cm.
Wiegand output	Wiegand: 24bit, 26bit (default), 32bit, 34bit, 35bit, 37bit, 40bit and 42bit, configurable via dip-switches **3**, **4** and **5** (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	45mA (max.).
Working temperature	-20° ~ +50°C.

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