

NGCR Family

New Generation Card Readers

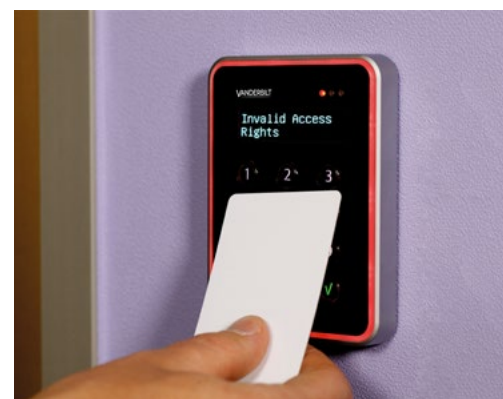


Overview:

Modern attractive looking and hardwearing materials which endure the most challenging weather conditions. Multicolour programmable light frame on all readers which enhance the look and functionality of the reader. The customer can choose colours for each outcome and rest state.

Key Features include:

- ✓ Multicolour LED light frame
- ✓ Auto dim in reduced light
- ✓ Graphical OLED display
- ✓ OSDP or Wiegand connectivity
- ✓ MIFARE card technology including EV1 and EV2
- ✓ Hardwearing materials
- ✓ IK class 08 and temperature range of -40°C to +70°C
- ✓ Easy to mount and connect
- ✓ Card reader only or card reader with keypad and/or display variants



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Product/Technical Specification:

| | Full-size Readers | Mullion Readers |
|-------------------------------------|--|--|
| Protocol | OSDP | OSDP / Wiegand |
| Interface to controller | RS485 | RS485 / Wiegand |
| Operating voltage | 8.5 –30.0 VDC | 8.5 –30.0 VDC |
| Power consumption | VR10S-MF: DC 12V 43mA Peak 168mA DC 24V 26mA Peak 100mA VR40S-MF: DC 12V 60mA Peak 220mA DC 24V 40mA Peak 125mA | VR20M-MF: DC 12V 50mA Peak 150mA DC 24V 35mA Peak 100mA VR50M-MF: DC 12V 50mA Peak 150mA DC 24V 30mA Peak 100mA |
| Tamper protection | Yes | Yes |
| Card Technology | MIFARE | MIFARE |
| Card compatibility | MIFARE Classic MIFARE PLUS (UID only) MIFARE DESFire EV1 MIFARE DESFire EV2 | MIFARE Classic MIFARE PLUS (UID only) MIFARE DESFire EV1 MIFARE DESFire EV2 |
| Reading distance | Up to 6cm | Up to 6cm |
| Indicators | 3 x LED (red/yellow/green) 1 Buzzer Multicolour light frame | 3 x LED (red/yellow/green) 1 Buzzer Multicolour light frame |
| Keypad | VR10S-MF: No VR40S-MF: Yes | VR20M-MF: No VR50M-MF: Yes |
| Display | VR10S-MF: No VR40S-MF: Yes | VR20M-MF: No VR50M-MF: No |
| Operating temperatures ¹ | -40° to +70°C | -40° to +70°C |
| Operating humidity | 5-95% non-condensing | 5-95% non-condensing |
| IP rating ² | IP55 | IP55 |
| IK Class | 08 | 08 |
| Housing | Zinc casted metal bezel with polycarbonate plastic front | Zinc casted metal bezel with polycarbonate plastic front |
| Dimensions | 85mm x 114mm x 22mm | 50mm x 130mm x 22mm |
| Approvals | CE according to R&TTE and EMC Directives RED FCC UL (pending) | CE according to R&TTE and EMC Directives RED FCC UL (pending) |
| Warranty | 3 years | 3 years |

¹ Only applicable to surface mounted readers. Back box mounted readers are specified from -10°C to +55°C.

² Only applicable to surface mounted readers. Back box mounted readers are specified to IP3X.



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Ordering Information:

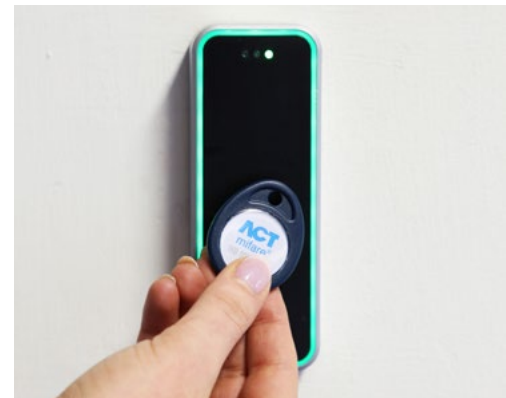
| Type | Art. No. | Description | Weight* |
|----------|------------------|---|---------|
| VR10S-MF | V54504-F101-A100 | VR10S-MF MIFARE EV1 card reader | 0.622kg |
| VR40S-MF | V54504-F102-A100 | VR40S-MF MIFARE EV1 reader Keypad / Display | 0.628kg |
| VR20M-MF | V54504-F111-A100 | VR20M-MF MIFARE EV1 Mullion reader | 0.296kg |
| VR50M-MF | V54504-F112-A100 | VR50M-MF MIFARE EV1 Mullion with keypad | 0.294kg |

* Total weight of the product inclusive of the weight of its accessories and packaging.

Selected Accessories:

| Type | Art. No | Description |
|---------|------------------|---|
| 3CT-KIT | V54504-S101-A100 | 3CT configuration card creation kit |
| SH5 | V54504-H101-A100 | SH5 Protection hood for VR10S-MF & VR40S-MF |
| EV10C1 | V54515-Z140-A100 | EV10C1 MIFARE DESFire EV2 ISO card |

Programming the reader is easily achieved using our special purpose 3CT kit. With this kit you can choose colours and assign them different functions. Setting encryption keys is also done through this kit. It creates configuration cards which can be used to update the readers.



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