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 ³	MIFARE Classic MIFARE PLUS (UID only) MIFARE DESFire EV1 MIFARE DESFire EV2 ³
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	IP54	IP66
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 RED & EMC Directives IEC/EN60839-11, Grade 4, Class III. FCC, UL, CCC, RCM, BIS, F&P	CE according to RED & EMC Directives IEC/EN60839-11, Grade 4, Class IV. FCC, UL, CCC, RCM, BIS, F&P
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.

³ Card compatibility: MIFARE Classic; MIFARE Plus (UID only); MIFARE DESFire EV1; MIFARE DESFire EV2/EV3 (to EV1 conditions only).

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Ordering Information:

Туре	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:

Туре	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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