

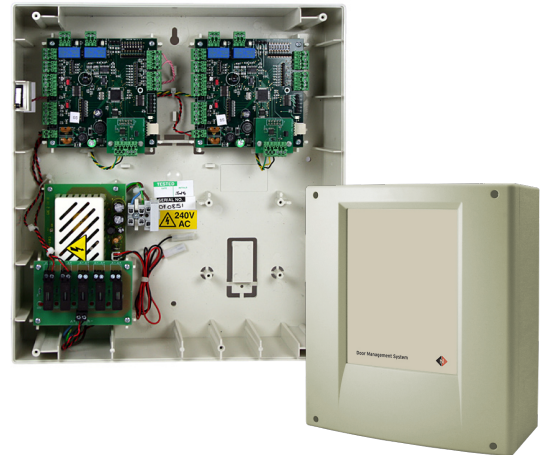
CRC220 Card Reader Controller

Product Description

The CRC220 reader controller is suitable for controlling access points such as doors and vehicle barriers by validating credentials such as cards, key fobs and vehicle tags. The CRC220 forms part of an access management system linked to a Norpass3 Access Control Management Software.

Supporting a comprehensive range of Clock & Data and Wiegand interface formats, each CRC220 module can be used to control access through one or two doors/barriers while supporting a wide range of managed access control features. There are several CRC220 enclosure options available with up to four reader interfaces per enclosure plus an integral power supply unit.

Users can configure and manage the CRC220 remotely from Norpass3. Once in service, updates to the system such as card validity are automatically updated via the network connection. Records of all events taking place at the reader inputs are passed to Norpass3 over the network connection as they occur. The network interface to Norpass3 can be either RS485 or TCP/IP.



Features

CRC220 PCB Module

- ◆ 2 reader interfaces per module to control access through 1 or 2 doors
- ◆ 65,000 sequential card or 8,000 random card capacity
- ◆ Combined Card & PIN security option
- ◆ 'Buddy Mode' option (any 2 valid cards required for access)
- ◆ Supports both Wiegand and Clock & Data formats
- ◆ Door monitor input and door alarm output for each door
- ◆ Arming input for each reader
- ◆ Card capture/auxiliary output for each reader
- ◆ Free exit input for each reader

- ◆ Tamper switch input and tamper alarm output
- ◆ Fire alarm input for unlocking all doors in case of an emergency
- ◆ RS485 or TCP/IP network connection options

Enclosure

- ◆ Integral 12V DC, 3A power supply
- ◆ Four individually fused 12V DC outputs for powering locking devices. These can be linked to a fire alarm so that it can release the connected locking devices in case of an emergency.
- ◆ Tamper switch

Specifications

Electrical

Supply Voltage:	Enclosures: 240V AC PCB/compact plastic housing: 12V DC
Current draw:	100 mA quiescent, 230 mA while reading (both readers)
Reader supply:	5V DC or 12V DC (100 mA max.)

Physical

Local settings:	DIP switches for setting node identity
Dimensions (mm):	PCB: 115 x 120 x 35 (H x W x D) Compact housing: 163 x 193 x 48 (H x W x D) Plastic enclosure: 325 x 300 x 135 (H x W x D) Metal enclosure: 330 x 300 x 105 (H x W x D)
Cable Termination:	Pluggable Screw terminal blocks

Environmental

Operating temp.:	0°C to 40°C
Storage temp.:	-20°C to 70°C
Relative humidity:	95% non-condensing

Capacity

Cards:	65,000 sequential or 8,000 random
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Data Communication

Mgmt Interface:	RS485 or TCP/IP depending upon model
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Inputs

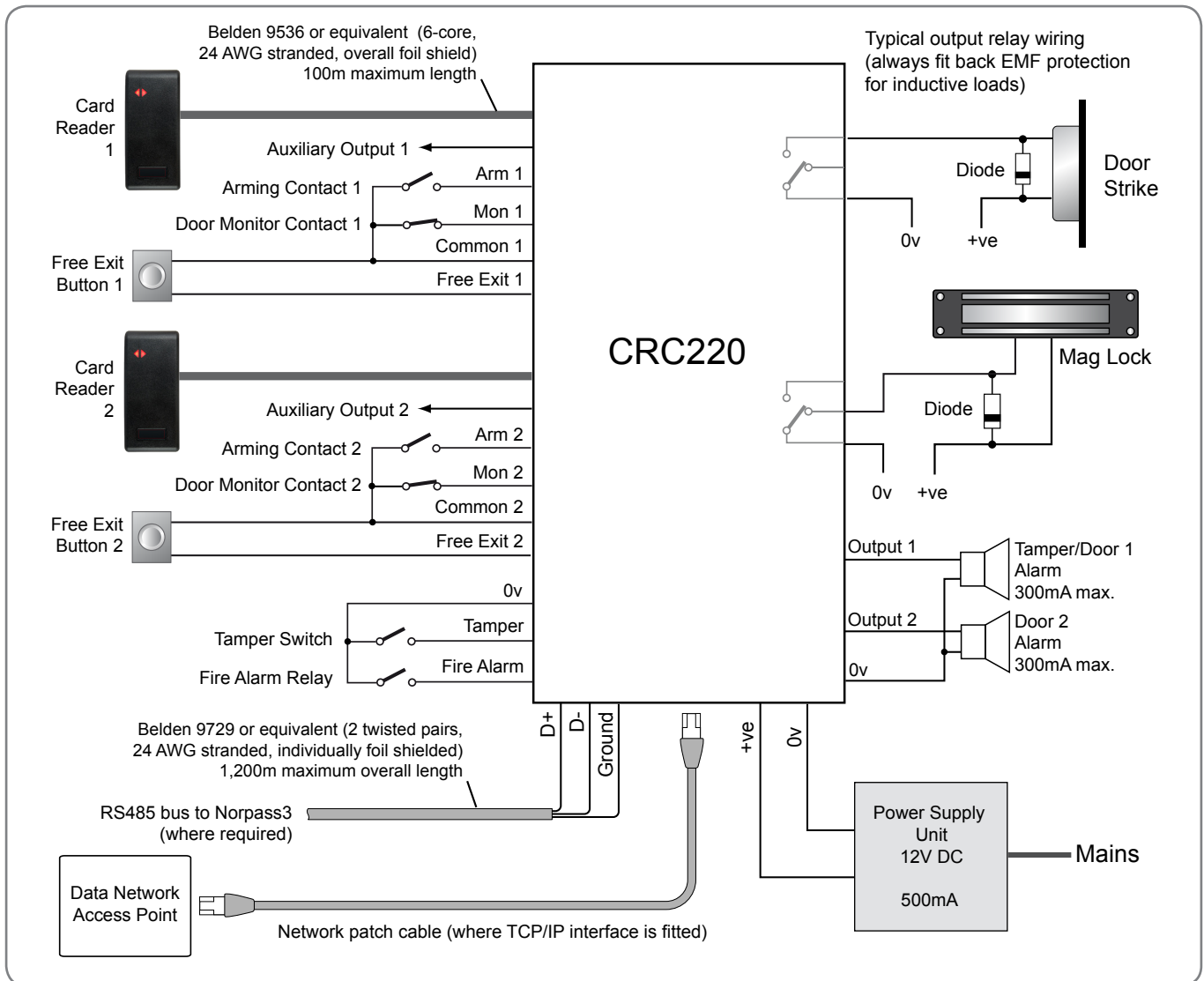
Readers:	2 x 5-wire reader interfaces for Clock & Data (ABA Track 2) & Wiegand formats
Arming:	2 independent, ground activated inputs. Open-circuit arming.
Door Open Monitor:	2 independent, ground activated inputs for monitoring door open status.
Request to Exit:	2 independent, ground activated inputs.
Tamper:	Ground activated input from tamper switch on housing (where applicable).
Fire Alarm:	Ground activated input from fire alarm relay.

Outputs

Lock Control:	2 independent relays with change-over contacts rated at 2A @ 30V DC.
Auxiliary output:	2 independent open-collector outputs for auxiliary control such as card capture.
Tamper Alarm:	Open-collector output (300mA), activated when tamper alarm is active.
Door Alarms:	Door 1 alarm is shared with the tamper alarm output. Door 2 alarm output is a separate open-collector output (300mA).

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Connection Details



Available Compatible Readers/Input Devices

MP1	Mullion mount reader - 125kHz, DualProx, Mifare & LEGIC	RH300	Magnetic stripe card reader
SP1	Slimline reader - 125Khz & DualProx	MRC310	Card capture reader
VP1	Vandal-resistant reader - 125kHz, DualProx & LEGIC	LMB60XX	Hyper X long-range reader family
PP1	Panel-mount reader - 125kHz & DualProx	LPR3011	Hyper X compact long-range reader
RXX	HID iClass smart card reader family	RCW-SL	RF remote control receiver

Ordering Information

The CRC220 is available in a range of housings with or without an integral power supply and with a choice of network interfaces.

The two main products are:

CRC220-48	CRC220 PCB with RS485 network interface
CRC220-TCP	CRC220 PCB with TCP/IP network interface

The choice of housing is set by a suffix as follows:

Compact plastic housing	-PLA
Plastic enclosure with integral 3A 12V PSU	-ENC
Metal enclosure with integral 3A 12V PSU	-MET

Example: CRC220-48-ENC (2-door controller in plastic enclosure with RS485 network interface).

4-door versions of the enclosures (ENC or MET) are ordered by adding the additional suffix '-4'

OEM versions (PCB only) can be ordered by omitting the housing type suffix (i.e. CRC220-48 or CRC220-TCP)