GE
Security

Access Control
M Controller Series

Overview

2RP and 2SRP (Supervised) Reader Processors are the interface between a GE access control system, a badge reader and the related door control functions. They provide a flexible means of expanding the reader capacity of an M5 or M3000 microcontroller.

The 2SRP provides supervision for the Digital Inputs. The two sets of Supervised Digital Inputs, one door contact and one Request-to-Exit per reader, can easily be configured to work with 1.0K, 6.8K, or 18K Ohm 1/4W, 5 percent end-of-line supervision resistors.

Standard Features

- Two multiple-format reader ports: Wiegand, F/2F, SF/2F, Strobed
- Four digital inputs: 2-state (2RP), 4-state (2SRP)
- Four digital outputs

Multiple Reader Voltages

The 2RP and 2SRP can be easily and quickly configured to support either 5VDC (Wiegand) or 12VDC (magstripe or proximity) readers.

Door Strike Relays

The door strike relay supports 2A @ 28VDC or 30VAC door strikes. The associated reader LED digital outputs can be used to drive an external door strike relay.

Alarm Shunt Relay

Each reader port is provided with a Normally Open/Normally Closed (1/4W @ 40VDC) relay used to disable an external device upon a valid badge read or Request-to-Exit. The relay remains activated while the door is validly open.

Auxiliary Relay for Digital Outputs

Each reader port is provided with an auxiliary output Normally Open/Normally Closed relay (1/4W @ 40VDC) for control of lights or warning devices.

Field Wiring

All field wiring connections are made through screw-terminal, pluggable connectors, making maintenance fast and reliable.

Product Content

The 2RP and 2SRP reader kits include the two-port reader processor, screw-terminal, pluggable connectors and components to configure for use with either 5VDC or 12VDC readers. Supervision resistors (1K W), are included with the 2SRP.

Reader Processors

M5/M3000 Options: 2RP and 2SRP
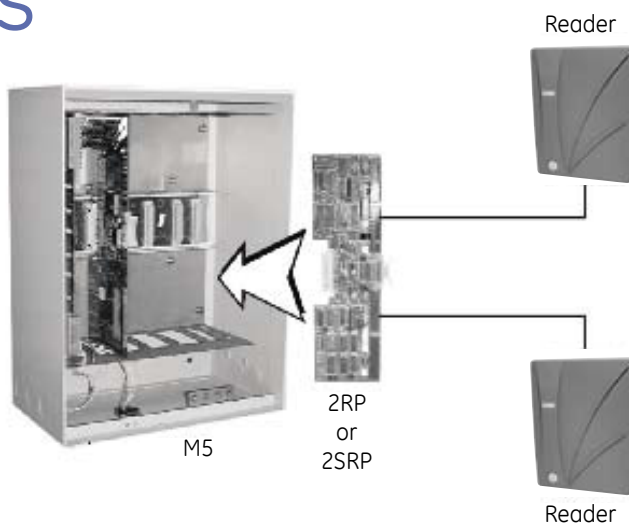
Reader

2RP
or
2SRP

M5

Reader

Configuration

M5/M3000 Option Board
2RP or 2SRP
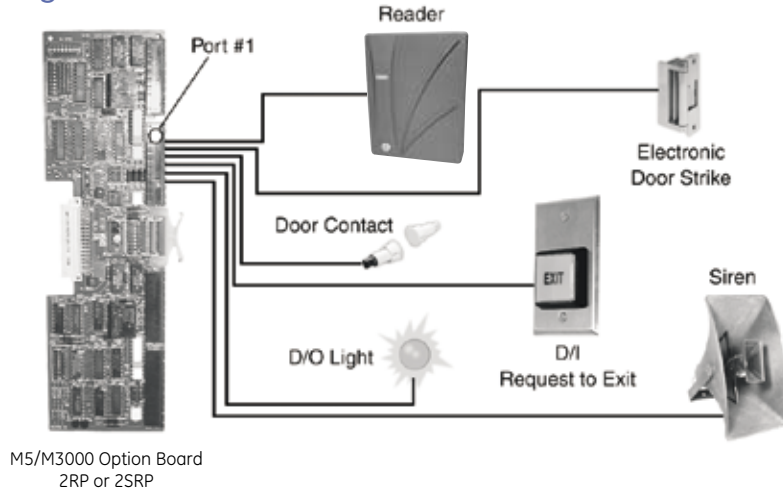
Specifications

DOR Ratings
- 2A @ 28 VDC
- 2A @ 30 VAC

Auxiliary DO Rating
- .25A @ 40 VDC maximum

Magstripe Reader Formats
- Reverse strobed
- Water mark
- SF2F, F2F
- Strobed

Wiegand Reader Formats
- 3701, 3702
- 3201: 34-bit KSC
- 3201: 38-bit ADT
- 3202, 4001, 4004
- 2802, 2804
- 2700, 2801
- 32-bit Indala
- 2800, 35/37 Hughes
- 26-bit, 34-bit card key
- 2500, 2804, 3400, 3703
- 64 BCD (FIPS201)
- 75-bit GSA PIV

Ordering Information

110063001	2RP two-reader interface processor, unsupervised DI
110101501	2SRP two-reader interface processor, supervised DI

Notes

A protection diode, IN4002, IN4003 or IN4004, is required for DC-powered door strikes; an MOV is required for AC-powered door strikes. This equipment is supplied with each 2RP and 2SRP.

Pull-up resistors, necessary for reader-to-microcontroller cable lengths over 500 feet, are built into the 2SRP. The 2RP requires external pull-up resistors. Pull-up resistors are supplied with Model 4xx magnetic stripe and Model 94x-97x proximity readers.

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