Card Reader Interface Board

The Card Reader Interface Board or 2-Door Controller is connected via the encrypted OSDP bus to the S1000 Controller. Each of the 2 OSDP buses can connect up to 16 devices, making a total of 32 Card Reader Interface Boards that can be connected to the S1000. If each of the 32 Card Reader Interface Boards supports 2 doors, then a maximum of 64 doors can be accommodated - this can be 32 doors with read IN and read OUT or 64 doors with read IN and egress OUT.

The board has built-in dual Wiegand with LEDs and buzzer connections, 2 normal relays, and 1 solid state relay which provides unlimited activation of strikes. There are 2 digital inputs. Each input is configurable to perform multiple functions, such as door contact, egress and break glass with same wiring.

Dual flash memory provides operating redundancy, with no down time while upgrading new firmware. The 2-Door Controller also can be used as an I/O device. It provides 6 inputs, 3 relays and 6 open collector outputs. All inputs are configurable as either digital or analog inputs.

The Card Reader Interface Board supports offline mode. This means that it will continue to process valid cards even if communication to the S1000 Controller is lost.

FEATURES

- Supports IN/OUT readers
- Dual Wiegand support
- Solid state relay
- Encrypted OSDP
- Digital and analog inputs are software configurable

TECHNICAL SPECIFICATIONS

Physical	
Dimensions	100mm x 70mm (4.4" x 2.0")
Weight	70g (2.5oz)
Environmental	
Operating temperature	-10°C (14°F) to 70°C (158°F) UL 294: -10°C (14°F) to 49°C (120.2°F)
Operating humidity	5% (0°C or 32°F) to 95% (40°C or 104°F)
Electrical	
Power consumption	50mA at 12VDC all inputs terminated UL 294: 40mA at 12VDC input with full load
Power supply	12VDC to 14VDC
Inputs	2 analog or digital multi EOL monitored (optional for 6 without using Wiegand inputs) UL 294: 10K
Outputs	2 relay NO/NC 1A at 24VDC 6 O/C outputs 1x solid state relay 0V to 24V AC/DC at 1A
Tamper	1x digital input for connecting tamper signal
Communication	
Dual flash memory	Firmware updated from the main controller without losing door operation (UL 294: NA)
Wiegand	2x Data0/Data1 signals with optional pull-up
Miscellaneous	
Degraded mode support	Continuous door transactions if disconnected from main controller (UL 294: NA): 1000 users 1000 transactions 24 hours

COMPLIANCE AND ACCREDITATION

RoHS, RCM, FCC, CE

ORDERING INFORMATION

PART NO.	TYPE CODE	DESCRIPTION
320 200 120	SD1-CRIO-PCB	Card Reader Interface for 1 or 2 doors, includes 2 Wiegand reader interfaces, up to 4 analog/digital inputs, 2 relays plus 1 solid state relay output.
320 200 121	SD1-CRIO-MENC	Card Reader Interface for 1 or 2 doors, includes 2 Wiegand reader interfaces, up to 4 analog/digital inputs, 2 relays plus 1 solid state relay output in a metal enclosure.

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