

SECTION 28 13 26.06

ACCESS CONTROL REMOTE DEVICES

PART 2 - PRODUCTS

2.01 GENERAL

The peripheral interface device shall provide a solution for interfacing to TTL/Wiegand/RS-485 type readers and door hardware. The intelligent controller shall accept data from a reader with clock/data, Wiegand or RS-485 signaling, provide a tri-stated LED control and buzzer control. It shall also provide six Form-C relay outputs and eight supervised inputs for monitoring. The controller shall communicate via a 2-wire RS-485 interface.

2.01 TECHNICAL SPECIFICATIONS

- A. Primary Power:
 - 1. 12-24VDC $\pm 10\%$, 550mA maximum, plus reader current
 - 2. 12VDC at 450mA nominal, plus reader current
 - 3. 24VDC at 270mA nominal, plus reader current
- B. Communication: 2-wire RS-485, 4,000 feet using Belden 9841
 - i. Reader Interface: two reader ports, data card/keypad, clock/data, data-1/data-0, or 2-wire RS-485
 - 1. LED: one-wire bi-color LED support or two-wire
 - 2. Buzzer: one-wire LED mode
- C. Keypad: 8-bit Mercury, 8-bit Dorado, or 4-bit HID
- D. Reader Power:
 - Pass through or 12Vdc regulated power, 125mA each reader
- E. Inputs: eight general purpose programmable type and two dedicated for tamper and power monitor
- F. Outputs: six relays – Form-C, 5 Amps at 28Vdc
- G. Temperature: 0 to 70 degrees Centigrade operational, -55 to 85 degrees Centigrade storage
- H. Humidity: 10-95 percent RHNC
- I. Standards: UL 294 recognized, CE compliant, RoHS

2.02 TECHNICAL FEATURES

- A. Card Formats:
 - 1. Eight active card formats per intelligent controller
 - 2. 19 digit (64-bit) User ID and 15 digit PIN numbers maximum
 - 3. PIV-II, CAC, TWIC card compatible
- B. Card Reader Functions
 - 1. Multiple card format support by reader
 - 2. Paired reader support
 - 3. Alternate reader support
 - 4. Turnstile support
 - 5. Biometric device support
 - 6. Keypad support with programmable user commands, card input
 - 7. Shunt relay support
 - 8. Strike follower relay support
- C. Database Functions
 - 1. Supports up to nineteen (19) digital card numbers
- D. Intrusion Alarm Functions
 - 1. Supports entry delays and exit delays
 - 2. Provides control and alarm processing from the keypad
- E. Offline mode operation
 - 1. Door mode
 - i. Unlocked, locked, facility code only
 - 2. Relay Mode
 - i. Programmable for offline conditions

End of Section