

## Openings

# Card Key Access Control Hardware (08 74 13)

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### Part 1 – General

- This information provides guidelines for Card Readers

### Part 2 – Product

- Squadron Access Control Panel, VI000RX
- Squadron 2 Door Connector Unit, VI00
- Squadron Power Supply 12VDC (application dependent):
  - 12VDC @ 4.0A 1 Class 2 if controlling up to a combination of 8 Squadron VI000RX and VI00
  - 12VDC @ 10A 1 protected output if controlling a combination of VI000RX, VI00 AND Prox type readers
- Squadron 8 Fused Power Distribution Block
- MR-5 Ruggedized Swipe Reader TK2, 12VDC with Mounting Bracket, security screw, pigtail cable, electrical grease and 10K resistor
- MR-5 Wall Plate, 1 gang
- HID Maxi-Prox Magnetic Reader, Mod. # 5375AGN00
- Cabling Requirements from V100 to MR5 or Dorado MAG Stripe Reader, 18 gauge AWG wire, shielded with drain, stranded, 6 conductors minimum
- Preferred (or equivalent):
  - Alpha 5386C
  - Beldon 5304FE
  - Carol E2036S
- Cabling for Von Duprin Power Supply electrified locking device, 14 AWG 1 pair shielded with drain, stranded (12 AWG when distances exceed 100 feet)
  - Carol E2252S-8 or equivalent
- Communications Alarm control cable 20 AWG, 2 pair 4 conductor, shielded with drain, stranded
  - Beldon 5402FE or equivalent
- Exterior Door Hardware needed for Card Reader Install:
  - Von Duprin EL 99L-NL-F 612 299F Panic Device
- Interior Door Hardware needed for Card Reader Install:
  - Sargent Mortise Lockset #LC-8271 LNL 24V
  - Assa Abloy Hess Electric Strike 1006 Series (for continuous duty requires 200SM3 Smart-PAC 3 (used when new door and frame are not called for)
  - Von Duprin electric strikes (When new doors and frames can be prepped by manufacturer)
- Door Hardware Power Supplies
  - Panic Devices
    - Von Duprin (Ingersol Rand) 914-4RL (see note 1)
- Electrified Mortise Locks and Strikes
  - Von Duprin 906 Power Supply with 900-4R option board (see note 2)

- NOTES:
- 1. Von Duprin 914 Power Supply is for high inrush current devices such as the EL99 Panic Device. It can control up to four devices using one 900-4RL option Board
- 2. Von Duprin 906 power supply is a non-in-rush power supply that when used in conjunction with three 900-4R option boards can control up to twelve Electric low current door hardware devices

### **Part 3 – Execution**

- Head end equipment shall be installed in data closet whenever possible.
- All wiring and conduit runs must comply with the National Electric Code.
- Schematics and equipment layout will be supplied to the contractor either by project drawings or a representative from the University Staff.
- Door hardware will require door preparation to be defined under project hardware schedule.
- Cabling, Conduits and/or pathways from head end equipment to door location shall be furnished by Contractor through the advisory from the University prior to the final drawings being submitted.
- All Card reader equipment and installation, with the exception of the Door Hardware, will be provided by the University.