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Universal Door Control Modules

Field Programmable Access Hardware Controller

14 Field Selectable Station Modes & Systems

7 Individually Selected Relay Output Modes

- Control Relay, Timed Relay, or Latching Relay Output
- Dual Modes Control Relay & Timer
- Latching & Timed
- Control Latching
- Controlled Relay/Controlled Relay

7 Selectable System Modes

- 5 Mantrap and Interlock Modes
- 2 Communicating Bathroom Modes



UR4-8 Shown

Benefits

- Use the same controller for all virtually multi-door applications
- Centralized wiring for all locks, access controls, monitoring contacts and peripheral equipment
- On board logic reduces need for communicating door and lock contacts and standalone relays.
- Reduced wiring, easy troubleshooting

Station Capacity - 1 Relay Per Station

Select operation mode for each station.
 Select station output configuration:
 SPDT Dry contact or Wet output.
 Wet output same as module input,
 12 or 24VDC

UR2-4

4 NO inputs
 4 Wet (1-On/1-Off) or SPDT Dry
 (2 fused, 2 non-fused)

UR4-8

8 NO inputs
 8 Wet (1-On/1-Off) or SPDT Dry
 (4 fused, 4 non-fused)

Station Capacity - 2 Relays Per Station

Select operation mode for each station.
 Select station output configuration, Wet or Dry:
 Wet output same as module input,
 12 or 24VDC

UR2-4

4 NO inputs
 2 fused Wet or Dry Outputs
 2 non-fused Wet or Dry outputs

UR4-8

8 NO inputs
 4 fused Wet or Dry Outputs
 4 non-fused Wet or Dry outputs

Programmable Station Modes

Each output may be individually programmed with its own mode of operation

- Conventional Relay
- Latching Relay, on/off
- Latch multi-station zones on/off or all stations on/off
- Time Delay Relay 1-60 seconds
- Dual function Latching on/off, plus 1-60 second Timed output when on.
- Emergency Release Input may control select stations or all stations

Programmable System Modes

System selection provides appropriate mode of operation for each input and output

- **Airlock/Interlock Mode A:** All doors normally unlocked, opening any door causes all other doors to lock.
- **Mantrap Mode B:** All doors normally locked. When any door is unlocked all other doors are incapable of unlocking.
- **3 Mantrap Mode C:** Select doors locked or unlocked. When unlocked door is opened, locked doors are incapable of unlocking. When a locked door is unlocked, normally locked doors lock and all other locked doors are incapable of unlocking.
- **Shared Hospital/Dorm Bathroom A:** Doors equipped with magnetic locks.
- **Shared Hospital/Dorm Bathroom B:** Doors equipped with electrified locksets.

Individual Contact Configuration

Each relay may be configured as a dry contact or voltage output.

Documentation

Several access control and mantrap system wire diagrams are provided for common applications.

UR2-4 Specifications

Input Voltage: 12 or 24VDC +/- 10%

Input Current: 130mA max.

Relay Inputs: 4-SPST, NO Dry, Optically Isolated

Auxiliary Inputs: 4-SPST, NO Dry, Optically Isolated

Outputs Specification

Field Selectable Voltage Output or Dry Contact
 Outputs individually configured as a dry contact or 12 or 24VDC Voltage Output, (1) Normally (On) and 1 Normally (Off)
 2 fused SPDT relays, 7 Amps @ 30VDC
 2 non-fused SPDT relays, 7 Amps @ 30VDC

UR4-8 Specifications

Input Voltage: 12 or 24VDC +/- 10%

Input Current: 130mA max.

Relay Inputs: 8-SPST, NO Dry, Optically Isolated

Auxiliary Inputs: 4-SPST, NO Dry, Optically Isolated

Outputs Specification

Field Selectable Voltage Output or Dry Contact
 Outputs individually configured as a dry contact or 12 or 24VDC Voltage Output, (1) Normally (On) and 1 Normally (Off)
 4 fused SPDT relays, 7 Amps @ 30VDC
 4 non-fused SPDT relays, 7 Amps @ 30VDC
Dimensions: 7" W x 5" H x 2" D
 (177.8 x 127 x 50.8 mm)

