INSTALLATION INSTRUCTIONS - MODEL UR-1
UNIVERSAL RELAY MODULE

FITS all SDC Power Supplies. Requires 1 Module space. Supplied with mounting screws and standoffs for J-box mounting.

FEATURES AND BENEFITS

- Microprocessor based relay controller that provides multiple, field selectable operational modes for up to two door stations.
- Each output relay is field selectable as a dry contact or voltage output.
- Centralized wiring for all locks, access controls, monitoring contacts and peripheral equipment.
- 1 or 2 controllers may be installed in SDC 600 series power supplies
- Field selectable relay modes include:
  - Conventional Relay (CR)
  - Dual Conventional Relay (2X CR)
  - Time Delay Relay (TD) – 1 to 60 Seconds
  - Dual Time Delay Relay (2X TD)
  - Latching Relay (LR) – Separate Latch and Release Inputs
  - Dual Latching Relay – (2X LR) Pulse On, Pulse Off Inputs
  - Time Delay/Latching Relay
  - Interlock A (airlock)
  - Interlock B (2 modules required)

UR-1 TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>INPUT VOLTAGE</th>
<th>12 or 24VDC +/- 10%</th>
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<tbody>
<tr>
<td>INPUT CONTROLLER CURRENT</td>
<td>120/175mA</td>
</tr>
<tr>
<td>INPUTS</td>
<td>2 ea Dry Signal Inputs</td>
</tr>
<tr>
<td>OUTPUTS</td>
<td>2 ea 10 amp @ 30VDC (resistive) SPDT Lock Outputs (Configurable Wet or Dry). Wet output voltage is the same as the module power IN voltage.</td>
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<tr>
<td>DIMENSIONS</td>
<td>3.20&quot;W x 2.00&quot; L x 1.0&quot; H [81.28mm W x 50.8mm L x 25.4mm H]</td>
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</tbody>
</table>
WARNING! The UR board Output Relays must be protected against inductive kickback generated when power is removed from an inductive load (e.g., electric strikes). Refer to the lock manufacturer's installation manual or contact the manufacturer for kickback protection recommendations.
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LR Mode

Switch No: SW1 SW2 SW3 SW4
Position ON off off off

- Fail Safe Lock
- Fail Secure Lock

Lock/Unlock A
Push to Unlock
Push again to Relock

Lock/Unlock B
Push to Unlock
Push Release to Relock

Sequencer Mode

(2 Locking Devices)

Switch No: SW1 SW2 SW3 SW4
Position ON ON off off

- Fail Safe Lock
- Fail Secure Lock

Dual LR Mode

(2 Independent Relays)

Switch No: SW1 SW2 SW3 SW4
Position ON ON ON off

- Fail Safe Lock
- Fail Secure Lock

Sequencer Mode

(ELR Device and Door Operator)

Switch No: SW1 SW2 SW3 SW4
Position ON ON off off

- Fail Safe Lock
- Fail Secure Lock

Door A
Door B

After the delay time has expired, door B will unlock.
WARNING!: The UR board Output Relays must be protected against inductive kickback generated when power is removed from an inductive load (e.g., electric strikes). Refer to the lock manufacturer’s installation manual or contact the manufacturer for kickback protection recommendations.

**TD/LR Mode**

<table>
<thead>
<tr>
<th>Switch No:</th>
<th>SW1</th>
<th>SW2</th>
<th>SW3</th>
<th>SW4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position</td>
<td>ON</td>
<td>ON</td>
<td>off</td>
<td>ON</td>
</tr>
</tbody>
</table>

- Interlock A

- Interlock B

(2 Modules are Required)

**Interlock B**

*DPS switches should be in the Open state with the doors Closed*

Method of Operation:
Both doors are normally closed and locked. Unlocking or opening the other door will make the other door incapable of being unlocked.
Communicating Bath
Using Fail Safe Electrified Locksets

Method of Operation
Both doors shall be normally unlocked.

System Activation:
Both doors must be closed to lock. Pressing the CB402A Push Button will lock all the doors.

Egress:
When the doors are locked, turning either door’s inside lever activates the lock’s REX switch and unlocks both doors.

Emergency Release:
When the doors are locked, activating either CB402B Emergency Push Buttons will unlock both the doors.

When used with an SDC 631RF power supply, both doors will unlock automatically via signal from the fire panel.

Emergency Release:

Egress:

Push to lock:
Both Doors

DPS switches should be in the Open state with the doors Closed

Power Supply

115 VAC PRIMARY VOLTAGE
TO NC FIRE ALARM INTERFACE

DPS
YEL
CB402B
TO UNLOCK DOOR

Push to lock:
Both Doors

DPS switches should be in the Open state with the doors Closed

Power Supply

115 VAC PRIMARY VOLTAGE
TO NC FIRE ALARM INTERFACE

DPS
YEL
CB402B
TO UNLOCK DOOR

Push to lock:
Both Doors

DPS switches should be in the Open state with the doors Closed

Power Supply

115 VAC PRIMARY VOLTAGE
TO NC FIRE ALARM INTERFACE

DPS
YEL
CB402B
TO UNLOCK DOOR

Push to lock:
Both Doors

DPS switches should be in the Open state with the doors Closed

Power Supply

115 VAC PRIMARY VOLTAGE
TO NC FIRE ALARM INTERFACE

DPS
YEL
CB402B
TO UNLOCK DOOR
Communicating Bath
Using Magnetic Locks

Method of Operation

Both doors shall be normally unlocked.

System Activation: All doors must be closed to lock. Pressing the CB401A Push Button will lock all the doors.

Egress: When the doors are locked, pressing the CB401A Push Button again unlocks all the doors.

Emergency Release: When the doors are locked, activating either of the CB401B Emergency Push Buttons will unlock both doors. Both doors will unlock automatically via signal from the fire panel.

When used with an SDC 631RF power supply, Both doors will unlock automatically via signal from the fire panel.