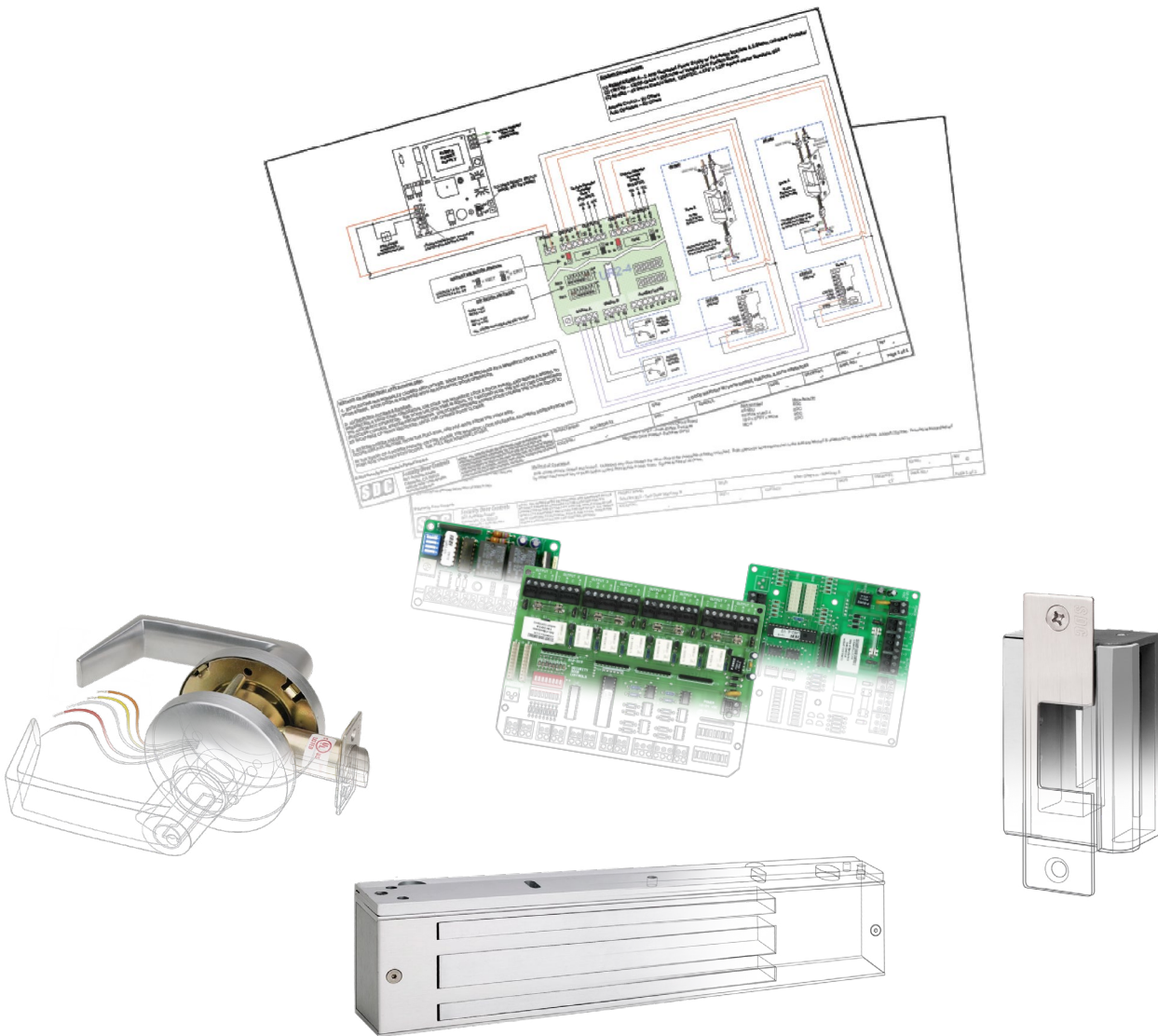


ENGINEERED SYSTEM DESIGN SERVICES

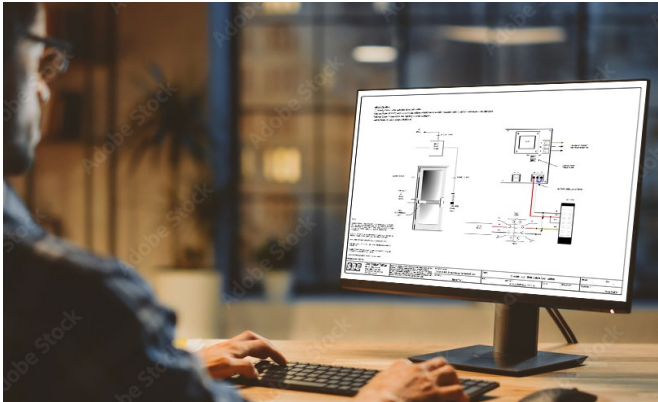


Multi-Door Access & Egress Control

the lock behind the system



SYSTEM DESIGN ANALYSIS SERVICES



Ever wish you could save time and money when programming multidoor projects? Troubleshooting product conflicts frustrating you? Are system maintenance headaches eating into your profit? SDC's **comprehensive services are available** when you purchase **SDC locks, controller and power supply for door opening applications** from your distributor.

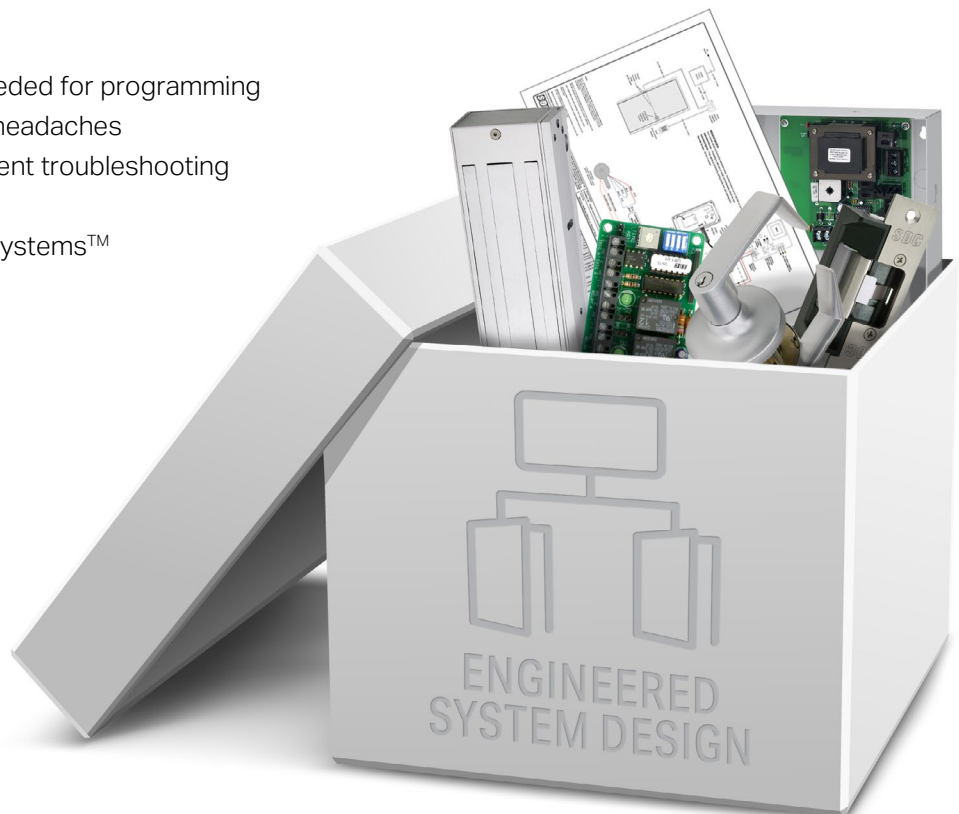
Door Control Opening Experts

SDC's locking systems can be found in virtually any application where access control of a door is required. We are particularly adept at new or retrofit applications of 1 – 10 doors, where 80% of the security door and hardware market exists.

System Design Made Easy

Just take your system out of the box, set the dip switches and go. The supplied wire diagrams eliminate future dependence on the original installer. When paired with other SDC components, all products are guaranteed to work together.

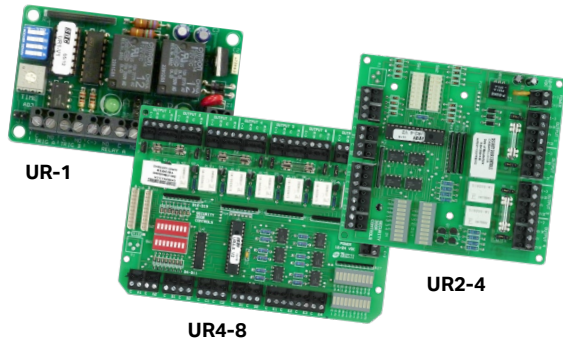
- No more man-hours needed for programming
- Reduced maintenance headaches
- Sophisticated and efficient troubleshooting
- Self-diagnostic LED's
- Compatibility Ensured Systems™



SYSTEM DESIGN BUILDING BLOCKS

UR SERIES UNIVERSAL MICROPROCESSOR CONTROLLED RELAYS

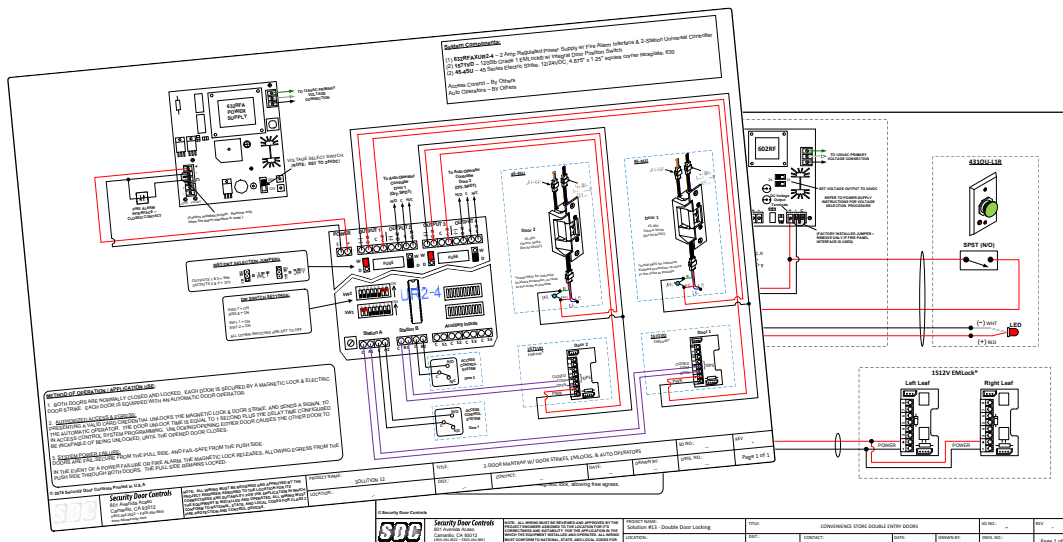
Our **UR Series Door Controllers** are at the heart of many SDC Engineered System Design solutions. They allow us to create your perfect door opening system and reduce programming and wiring time. The award-winning UR Series is a trusted, flexible door control solution used in thousands of installations since 1998.



- Use the same controller for multiple applications
- Selectable relay modes permit installer configuration flexibility per application
- Microprocessor-based system logic reduces need for standalone relays
- Centralized wiring for locks, access controls, monitoring contacts and peripheral equipment provide easy troubleshooting and uniformity for multiple installation applications

PRE-BUILT SYSTEM WIRE DIAGRAMS

SDC's **Engineered System Design** landing page provides a choice of several complimentary system wire diagrams for common single and double door applications. Drawings vary with choice of different locking hardware and access and egress controls. Several of the same or different drawings may be used to accommodate multi-door system requirements. The drawings can be used as a guide to assist in system specification.



APPLICATION SOLUTIONS



INTERLOCKS & MANTRAPS

Interlocks/Airlocks are typically used for vestibules and laboratories to control air flow or restrict number of doors open at the same time.

Mantraps are typically used for secure areas requiring restricted and controlled access and egress.

Interlocks and Mantraps do not allow more than one door open at a time.

Interlock/Airlock A - The doors are normally **unlocked** and opening any door causes all other doors to lock until the open door is closed. When all doors are closed, they are all unlocked.

Mantrap B - The doors are normally **locked**. When any door is unlocked all other doors are incapable of unlocking. Access to any door is by authorized credential, keypad or surveillance personnel allowing entry.

Mantrap C - Select doors **locked or unlocked**. When unlocked door is opened, locked doors are incapable of unlocking. When a locked door is unlocked, normally unlocked doors lock and all other locked doors are incapable of unlocking.



Pre-Built System Wire Diagrams:

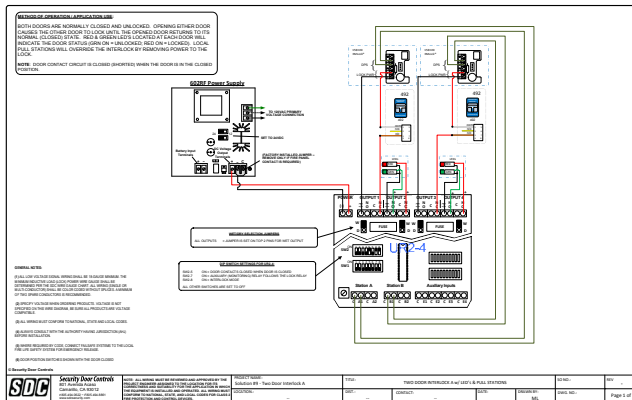
1. Two Door Interlock A using EMLocks, controller board, LEDs and override pull stations
2. Three Door Interlock A using EMLocks, controller board, and override buttons at each door
3. Two Door Mantrap B using electric strikes, controller board, and surveillance personnel allowing entry
4. Two Door Mantrap B using electric strikes and EMLocks and automatic operators for each door

APPLICATION SOLUTIONS

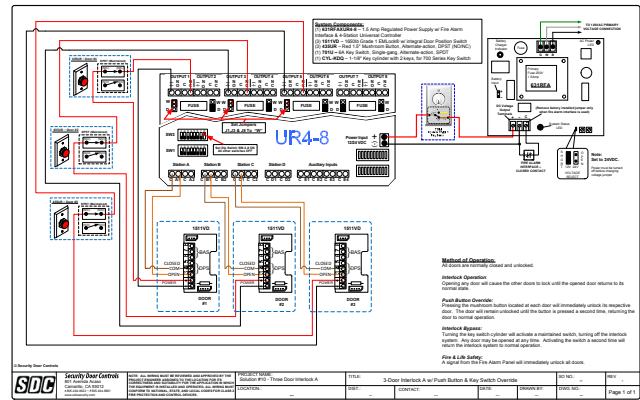


INTERLOCKS & MANTRAPS

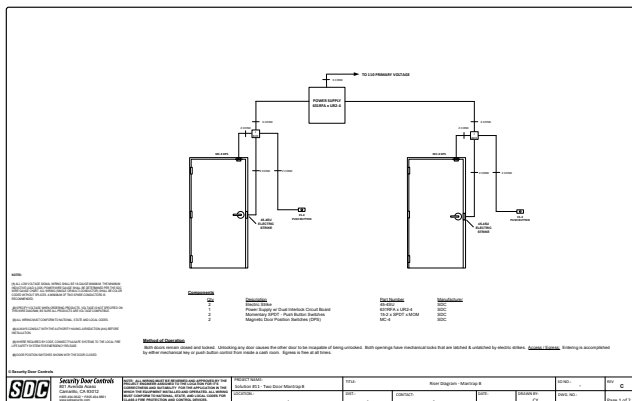
Two Door Interlock A using EMlocks, controller board, LEDs and override pull stations.



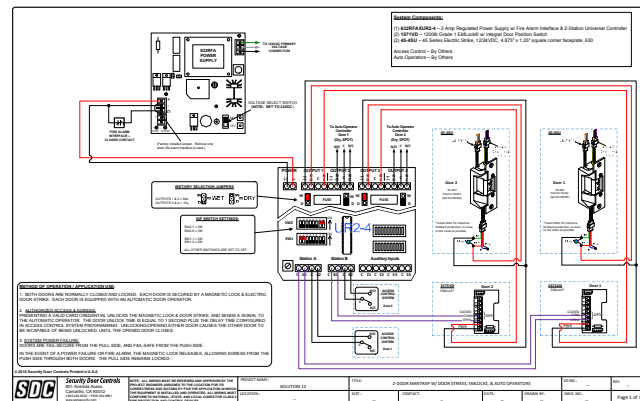
Three Door Interlock A using EMlocks, controller board, and override buttons at each door.



Two Door Mantrap B using electric strikes, controller board, and surveillance personnel allowing entry.



Two Door Mantrap B using electric strikes and EMlocks and automatic operators for each door.



APPLICATION SOLUTIONS



COMMUNICATING BATH SYSTEMS

Communicating Bathroom systems are used for shared bathrooms in dormitories and hospitals.

Both doors are normally unlocked and locked by person entering bathroom. Both doors are unlocked when person leaves the bathroom. Outside emergency switches are in place to override the locks if there is a problem with person inside bathroom. Both doors will unlock with fire/emergency signal.



Pre-Built System Wire Diagrams:

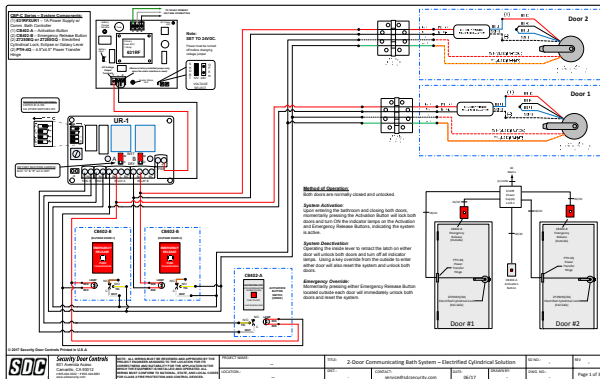
1. Communicating Bathroom using failsafe electrified cylindrical locks
2. Communicating Bathroom using failsafe electrified mortise locks
3. Communicating Bathroom using failsafe EMLocks
4. Communicating Bathroom Package - Complete kit with locking devices, power supply, emergency access push button switches, system activation push button switch, status sensors, power transfer hinges (not required for EMLocks)

APPLICATION SOLUTIONS

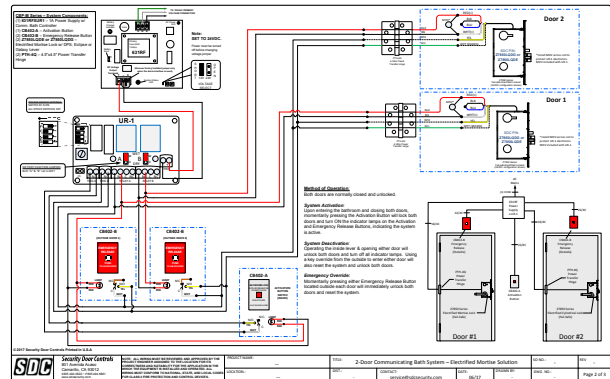


COMMUNICATING BATH SYSTEMS

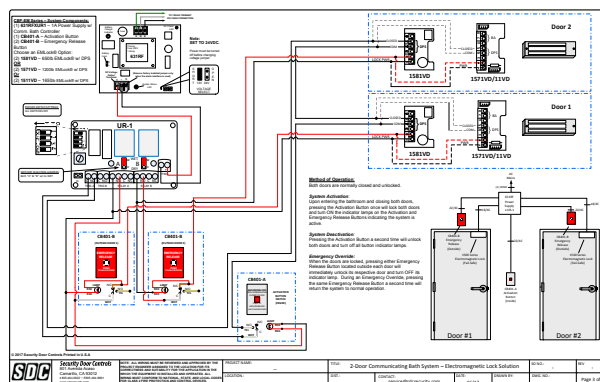
Communicating Bathroom using failsafe electrified cylindrical locks



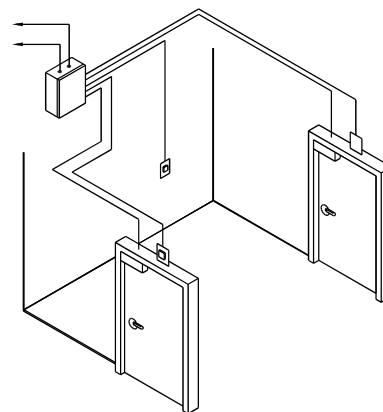
Communicating Bathroom using failsafe electrified mortise locks



Communicating Bathroom using failsafe EMLocks



Communicating Bathroom Packages - One part number covers it all!



Learn More

APPLICATION SOLUTIONS

SDC has a more extensive **Pre-Built System Wire Diagrams** available on the Engineered System Design landing page.



ACCESS CONTROL DOORS



SPECIAL/UNIQUE SYSTEMS



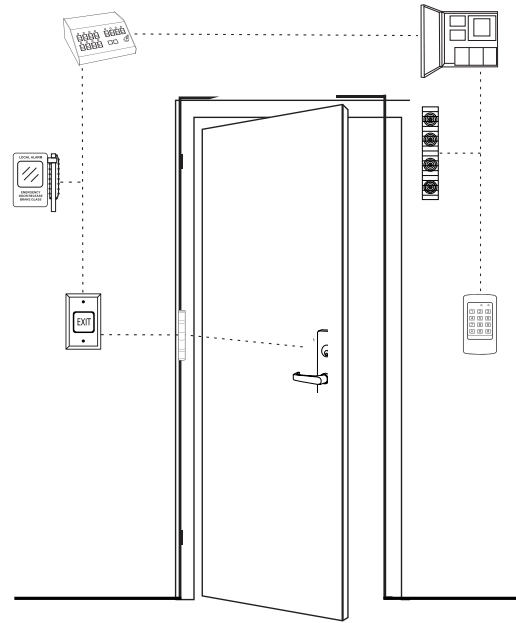
IPPro® SYSTEM DESIGN



HANDS FREE DOOR SOLUTIONS



CLASSROOM LOCKDOWN



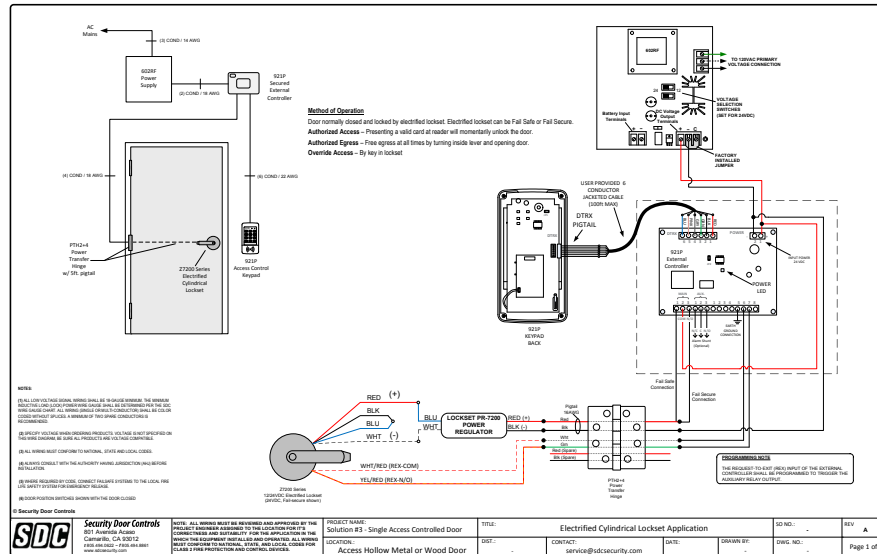
ORDERING PROCESS

To request a System Quotation, develop a scope of your desired system and email it to tech@sdsecurity.com.

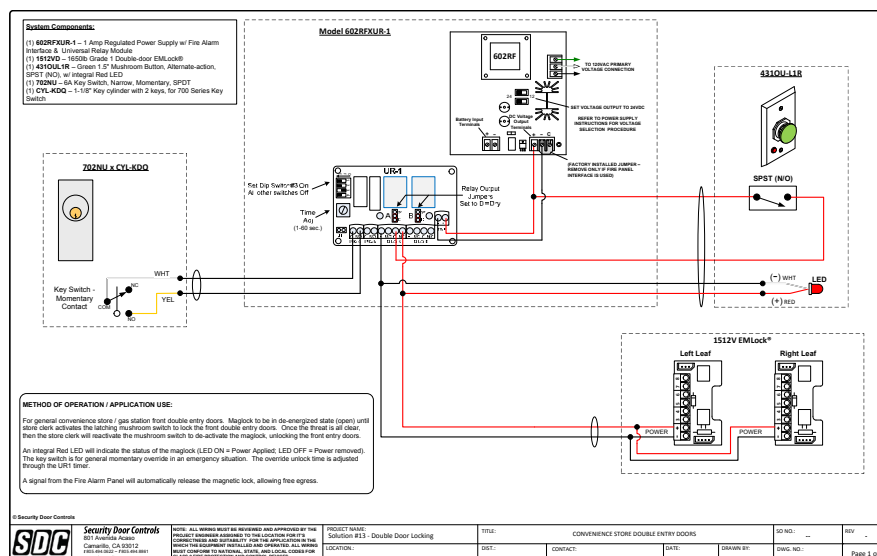
Questions? Call 800-413-8783.

OTHER SYSTEM DESIGN EXAMPLES

Single Access Controlled Door using standalone proximity card reader and electrified cylindrical lockset (failsafe or failsecure).

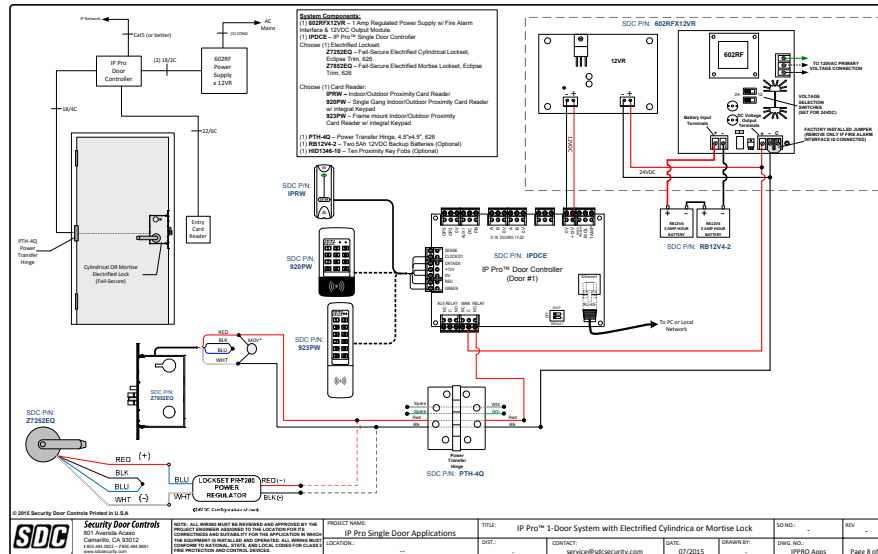


Access Control Pair of Doors using EMLocks, with UR1 timer, mushroom button for locking and keyswitch timed release.

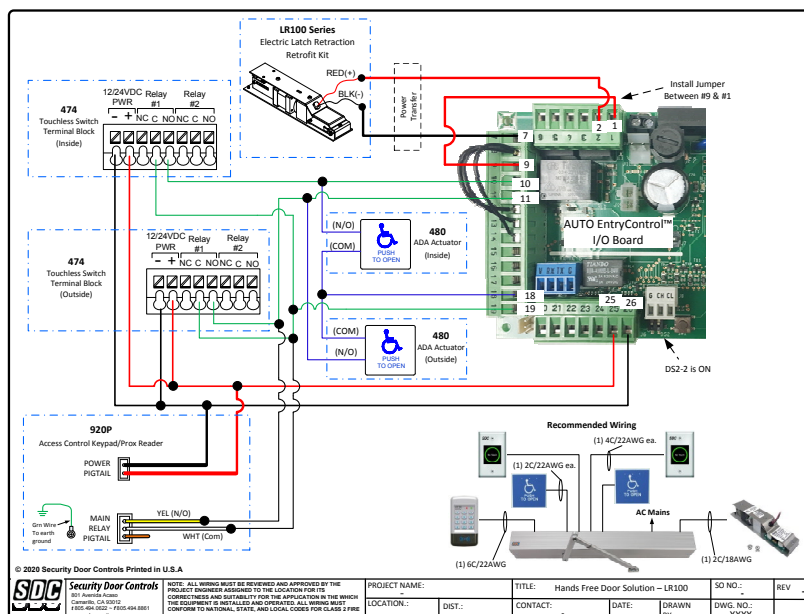


OTHER SYSTEM DESIGN EXAMPLES

IPPro® System Design - Single door network controller, electrified cylindrical or mortise lock application

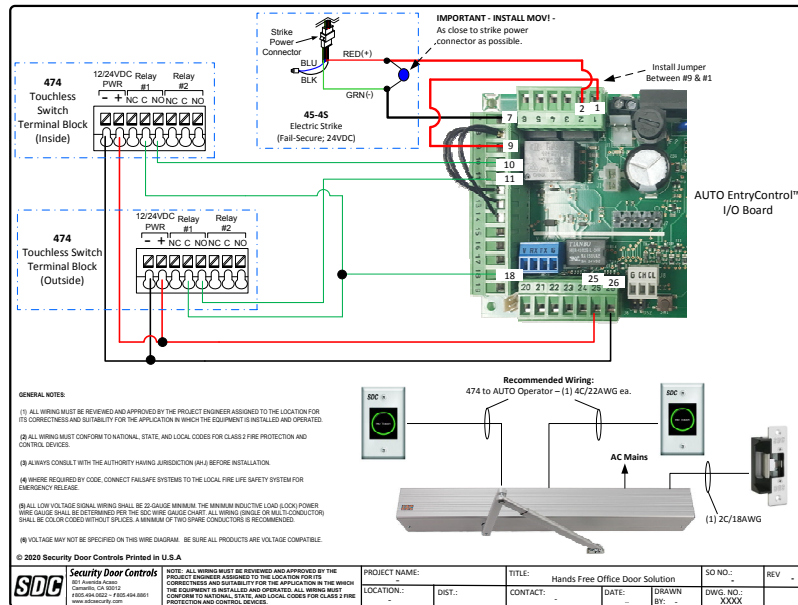


Hands Free Door Solution - Entrance application



OTHER SYSTEM DESIGN EXAMPLES

Hands Free Door Solution - Office door application



Single Access Controlled Code Compliant Door using an EMLock, keypad, motion detector, override exit button and an emergency break glass override.

