LOCK INTO THE ACSI ADVANTAGE

SERIES 1100 ELECTRIC HINGES/PIVOTS

ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED

SERIES 1100 ELECTRIC HINGES/PIVOTS

ACSI Series 1100 Electric Hinges/Pivots are designed for doors that require concealed low voltage current transfer, concealed electric monitoring, or concealed low voltage current transfer with monitoring. With over 25 years of experience, ACSI Series 1100 products are UL listed and carry a full one year warranty.

Features
- UL listed
- Provide current transfer to electrified mortise or cylindrical locks, exit devices with electric latch retraction, electric strikes (pairs of doors), and locks with monitoring or request to exit switches
- Rated for 3.5 amp and 16 amp pulse
- Available in Hager, Stanley, McKinney, Bommer, Rixson, Ives, and more
- Standard weight or heavy weight models
- Steel, brass, or stainless steel hinges
- Available in five knuckle and three knuckle hinges
- All architectural finishes in sizes 4x4 through 6x6
- Over 5,000 Hinges/Pivots in stock for same day delivery

Manufacturers

Stanley	Dorma
Hager	Ives
McKinney	Rixson
Bommer	PBB

MODELS AVAILABLE

Model	Hinge Modification Description
*1102	Concealed electric through-wire (2 wire, 22 ga)
*1104	Concealed electric through-wire (4 wire)
1106	Concealed electric through-wire (6 wire)
*1108	Concealed electric through-wire (8 wire)
1100-10	Concealed electric through-wire (10 wire)
1100-12	Concealed electric through-wire (12 wire)
1102x4	Concealed electric through-wire (2 wire, 22 ga x 4 wire, 28 ga)
1110	Concealed electric monitor
1114	Concealed electric through-wire and monitor (4 wire)
1116	Concealed electric through-wire and monitor (6 wire)
1118	Concealed electric through-wire and monitor (8 wire)
1120	Air transfer

* Available in pivot modification

Note:
- Electric hinge must be placed in the center position only.
- ACSI requires NON-NRP hinges for modification. Hinge pin is not field removable after modification.
- ACSI part no. 302-03-03 mortar guard is required for all application with grout-filled frames. Failure to install mortar guard will void the electric hinge warranty.

COMPARISON CHART

ACSI	STANLEY	HAGER	McKINNEY
1104	CE-54	ETW-4	CC-4
1106	CE-56	ETW-6	CC-6
1108	CE-58	ETW-8	CC-8
1110	CS	EMN	CS
1114	CECS-54	ETM-4	CSCC-4
1116	CECS-56	ETM-6	CSCC-6
1118	CECS-58	ETM-8	CSCC-8

HOW TO ORDER

Hinge/Part Description	Modification
FBB179 4.5x4.5 26D	**1104**
BB1279 5.0x4.5 10B	**1108**
M19-US26 LH	**1110**

ELECTRICAL SPECIFICATIONS

Concealed electric through-wire:
  50 volts AC/DC @ 3.5 amps continous, 16 amps pulse
Concealed electric monitor:
  30 VDC @ .5 amps

LOCK INTO THE ACSI ADVANTAGE

MORTISE KEY SWITCH

PUSHBUTTON SWITCH

EMERGENCY RELEASE

DOOR POSITION SWITCH

INDICATORS

AUDIBLE ALARM

KEYPADS

SERIES 1300 DOOR CONTROLS CATALOG

ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED

SERIES 1300 DOOR CONTROLS

MORTISE KEYSWITCH*

ACSI Series 1310 Mortise Keyswitches are designed to control electric locks, electric strikes, electric exit devices, and a variety of other control applications. ACSI 1310 keyswitches allow keying the electrically controlled openings to facility master key systems. DPDT contacts.

Model	Description
1310-1	Keyswitch, single gang, wall mount
1310-2	Keyswitch, single gang, 2 indicators (Red and Green), wall mount
1310-3	Keyswitch, double gang, adjustable time delay (0-30 sec.), wall mount
1310-3-2	Keyswitch, double gang, adjustable time delay (0-30 sec.), 2 indicators (Red and Green), wall mount
1310-4	Keyswitch, narrow style, 1-3/4" frame mount
1310-4-2	Keyswitch, narrow style, 2 indicators (Red and Green), frame mount
1310-5	Keyswitch, double gang, audible alarm, wall mount
1310-5-2	Keyswitch, double gang, audible alarm, 2 indicators (Red and Green), wall mount

PUSHBUTTON SWITCH*

ACSI Series 1320 Pushbutton Switches provide a variety of functions for commercial and industrial door control applications. DPDT contacts.

Model	Description
1320-1	Pushbutton, single gang, wall mount
1320-2	Pushbutton, single gang, 1 indicator (Red or Green), wall mount
1320-3	Pushbutton, single gang, 2 indicators (Red and Green), wall mount
1320-4	Pushbutton, double gang, adjustable time delay (0-30 sec.), 1 indicator (Red or Green), wall mount
1320-5	Pushbutton, single gang, mushroom switch, wall mount**
1320-5-2	Pushbutton, single gang, mushroom switch, 2 indicators (Red and Green), wall mount**
1320-6	Pushbutton, narrow style, 1-3/4" frame mount
1320-6-2	Pushbutton, narrow style, 2 indicators (Red and Green), 1-3/4" frame mount

*When ordering Part No. 1310 or 1320, specify momentary or maintained action.
**Contacts available in SPDT form only.

EMERGENCY RELEASE

Attractive and durable, ACSI 1330-2 Emergency Release provides manual emergency reporting. The 1330-2 is finished in blue enamel. Supplied with separate N.O. and N.C. contact outputs.

Model	Description
1330-2	Emergency Release

DOOR POSITION SENSORS

ACSI 1335 Door Position Sensors are used to confirm door position. Magnetic sensors mounted in the frame react to the proximity of a magnet mounted in the door. Pneumatic models also available for use in hazardous locations.

Model	Description
1335-1	D.P.S. Standard mortise, SPDT, N.O./N.C. contacts
1335-2	D.P.S. ANSI, SPDT, N.O./N.C. contacts
1335-3	D.P.S. Surface mount, SPDT, N.O./N.C. contacts
1335-4	D.P.S. Standard mortise, AIR, Three-way, N.O. ports
1335-5	D.P.S. ANSI, AIR, Three-way, N.O. ports

INDICATORS

ACSI 1340 Indicators provide visual or audible indication of system status.

Model	Description
1340-1	Indicator, single gang, round LED (Red or Green), wall mount
1340-2	Audible alarm, single gang, wall mount
1340-3	High security audible alarm, single gang, wall mount

DIGITAL KEYPADS

ACSI Digital Keypads offer proven reliability for commercial, industrial, and residential applications. The 1355 Keypads are designed to control any electric locking device.

Features
- Keypad programmable
- 10-30 VDC; 12-24VAC – auto adjusting (for all models except 1355-7)
- 120 user capability
- Over 1 million code combinations
- Adjustable relock delay (1-90 seconds)
- LED status indicators (for all models except 1355-4)
- Request to exit switch input
- Main Relay ON/OFF latching (toggle mode)
- Panic output (for all models except 1355-6 & 1355-7)
- Interface to alarm system
- On board SPDT 8 amp main relay
- Non-volatile memory remembers codes and instructions when power is removed

1355-1

1355-2

1355-3

Model	Description
1355-1	Digital Indoor Keypad
1355-2	Weather Resistant Keypad
1355-3	Sealed Environmental Keypad
	• Weatherproof self-contained metal housing
	• Vandal resistant
	• Small design suitable for commercial, industrial, and residential applications
1355-4	Ruggedized Digital Keypad
	• Weatherproof self-contained metal housing
	• Vandal resistant
	• One piece housing suitable for wall, post, or gooseneck mounting
	• Internal audible multi-status indicator (sounder)
	• Available in white or black
1355-5	Mullion Digital Keypad
	• Weather resistant for outdoor, as well as indoor applications
	• Backlit hardened keys
	• Doorbell key w/associated relay output
	• Narrow style suitable for aluminum door frame mounting
	• Available in bronze or aluminum
1355-6	Indoor Backlit Keypad
	• Elegant design
	• Illuminated backlit hardened keys
	• Heavy traffic application
	• Flush mount design
	• Includes audible indicator (sounder)
1355-7	Harsh Environment Keypad
	• Vandal and weatherproof case construction
	• For indoor/outdoor applications
	• Attractive appearance
	• Touch sensitive flat key design won't wear out
	• Includes audible indicator (sounder)
	• 12/24 volts AC/DC – jumper selectable

1355-4

1355-5

1355-6

1355-7

ELECTRIC SPECIFICATIONS

1310/1320 Switches:
- DPDT Contact Configuration
- Contacts Rated 1A @ 30VDC
- **Note:** 1320-5 SPDT contact only.

1330-2 Emergency Release Switch:
- Separate N.O./N.C. Outputs
- Can be wired for SPDT Contact Configuration
- Contacts Rated 1A @ 30 VDC
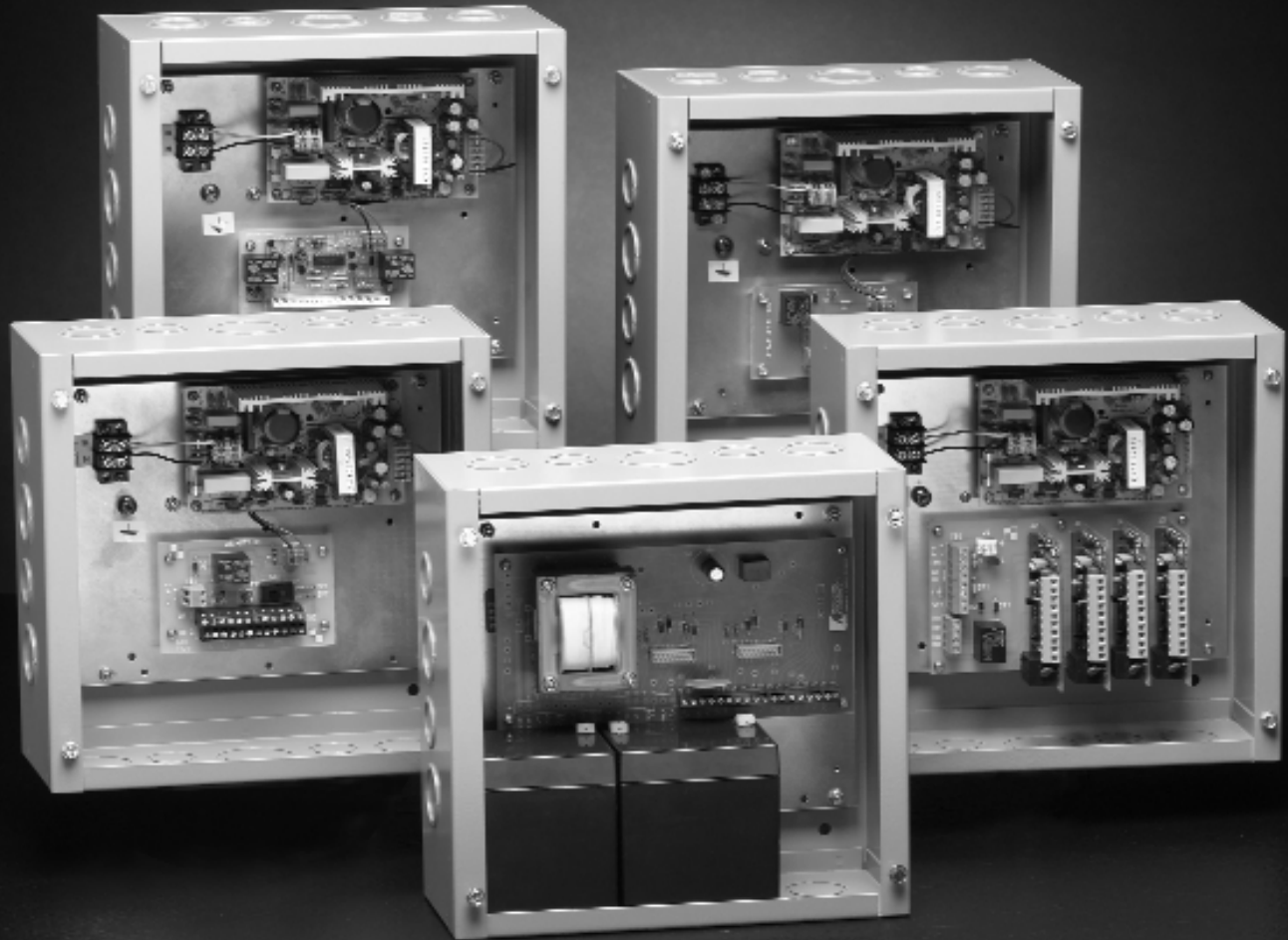
1340-2 & 1340-3 Audible Alarm
- DC Voltage Range: 4V - 28V
- DC Current Range: 2mA - 14mA
- Frequency: 2900 Hz
- Sound Intensity: 64dB @ Min. V; 78dB @ Max. V

Red/Green LED Indicator Used with 1310/1320/1340 Controls:
- 24VDC, 20mA, 10mcd

LOCK INTO THE ACSI ADVANTAGE

POWER SUPPLY CATALOG

**ARCHITECTURAL
CONTROL SYSTEMS,
INCORPORATED**

THE SINGLE SOURCE FOR ELECTRIC LOCKING DEVICE POWER SUPPLIES

# ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED

ACSI Series 1400 Power Supplies **are designed and manufactured by ACSI engineers to operate a variety of electric locking devices that will meet the most sophisticated specifications.**

ACSI system engineers are available to assist you in the selection of the power supply that best meets your application. All **ACSI designed systems include** riser diagrams and point-to-point wiring diagrams **that allow ease of** interface **with life safety and security systems.**

Architectural Control Systems, Inc.
10666 Gateway Blvd.
St. Louis, MO 63132
314-432-5588
FAX: 314-432-2090
1-800-753-5558
www.acsi-inc.com

1410, 1420, 1440, 1400-6100 POWER SUPPLIES
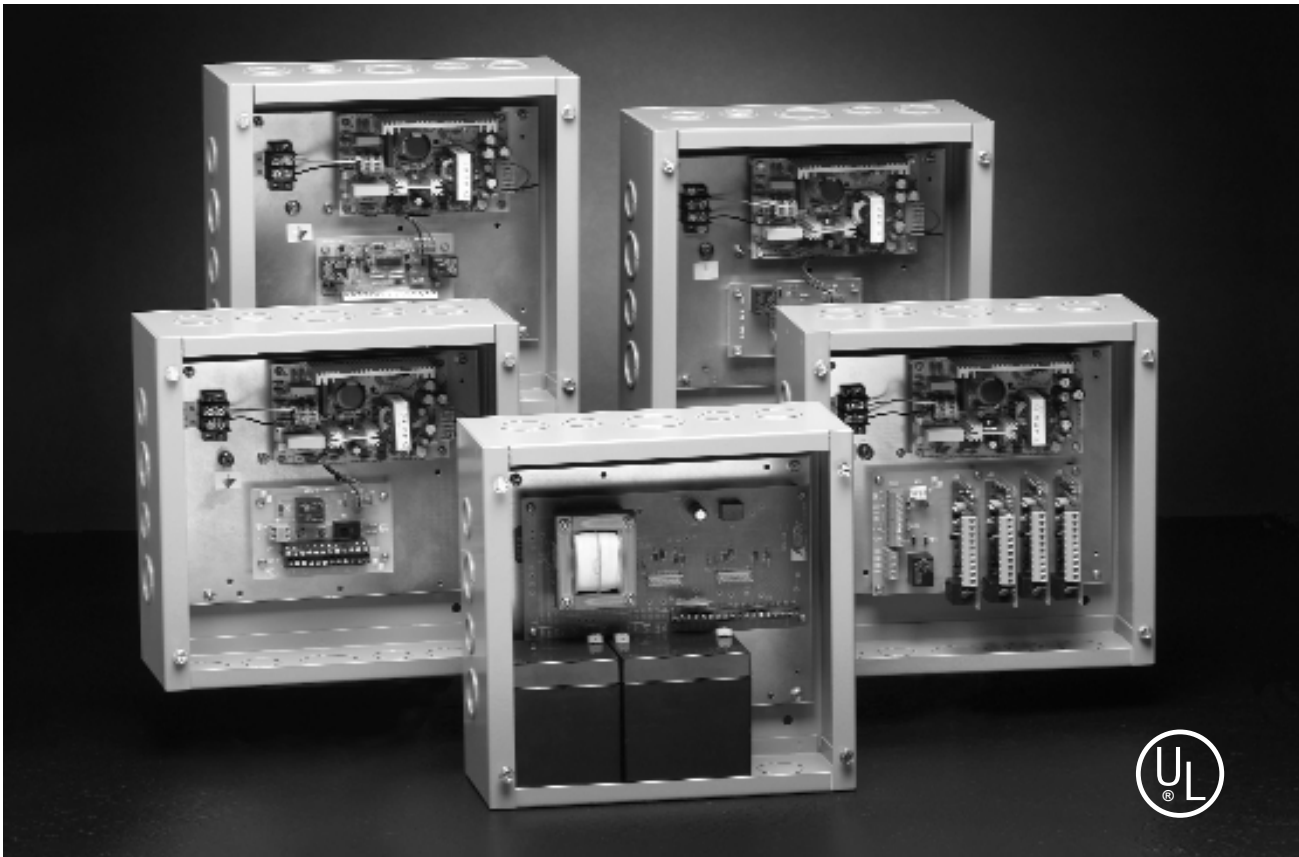
Features
- UL Listed
- Filtered/Regulated 24VDC
- 2 amp load capacity
- Overload protection
- Over voltage protection
- Short circuit protection
- Surge suppression on fail safe and fail secure outputs
- Automatically accepts 120VAC or 240VAC input

1410 POWER SUPPLY

ACSI 1410 Interlock Power Supply is designed to interconnect two or more doors using fail safe locking devices. Each supply can control up to four doors; and the system can be expanded for requirements in excess of four doors.
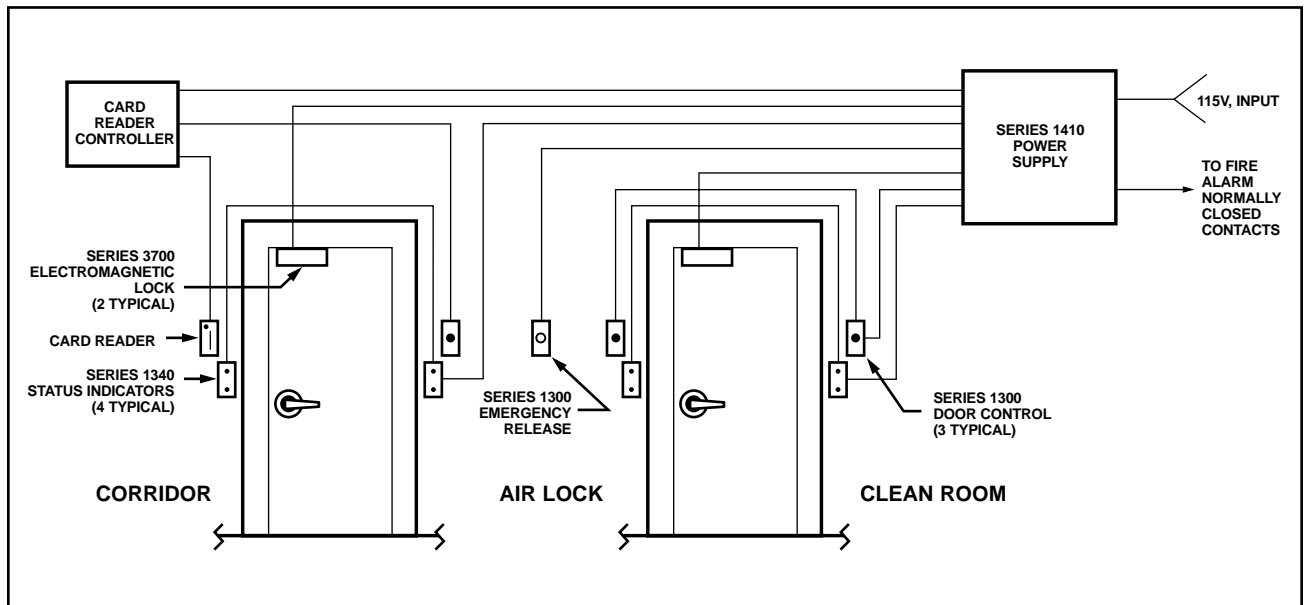
Any one door can be programmed to be part of (common to) as many as three separate interlocking systems.
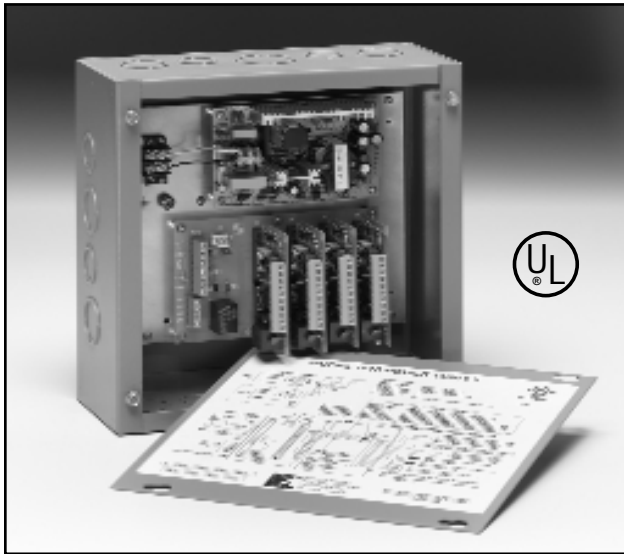
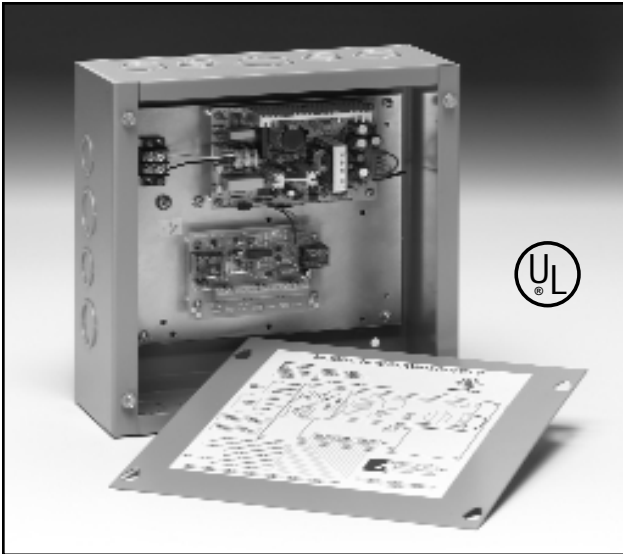Separate plug-in p.c. boards used to control interlocking doors can be programmed for normally locked or normally unlocked operation.

Inputs are available for **fire alarm** and optional **emergency release interface** for override of the interlocking system.

Applications include darkrooms, laboratories, pharmaceuticals, detention centers, money counting rooms, airlocks, clean rooms, etc.

ACSI system engineers are available for design and consultation services to coordinate all aspects of the system.

ACSI electric locking systems and all documentation including riser diagrams and point-to-point wiring diagrams can give distributors a **single source** for their system requirements.

Models Available
1410-2 2 Door Interlock
1410-3 3 Door Interlock
1410-4 4 Door Interlock

Note: Available with battery back-up, see 1460 Power Supply

ACSI Interlock System

1420 POWER SUPPLY

ACSI 1420 Power Supply provides power and control for openings with an electrified locking device and **automatic door operator**. Each **1420** includes:

- Separate inputs for activation switch on entry and exit sides of the opening
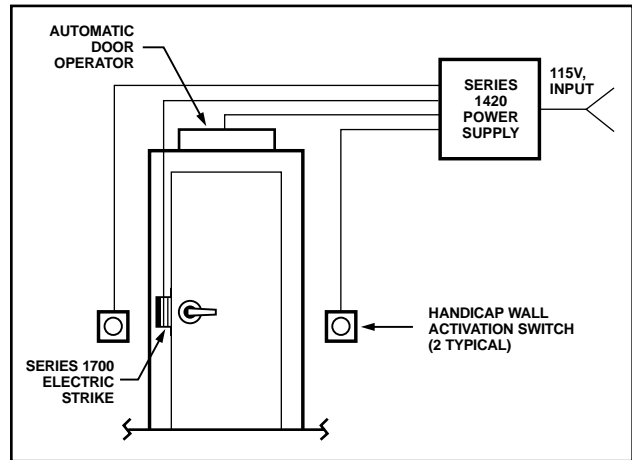- Relay contact output to automatic door operator (N.O. or N.C. contacts)

- Built-in time delay between activation of electrified locking device and automatic door operator
- Input for optional emergency release switch when urgent unlocking of the door is required
- Auxiliary 24VDC constant voltage output
- Separate 24VDC outputs for fail safe and fail secure electrified locking devices

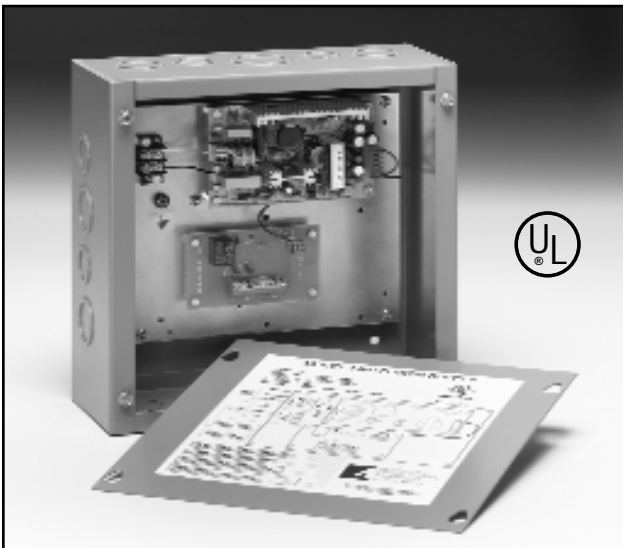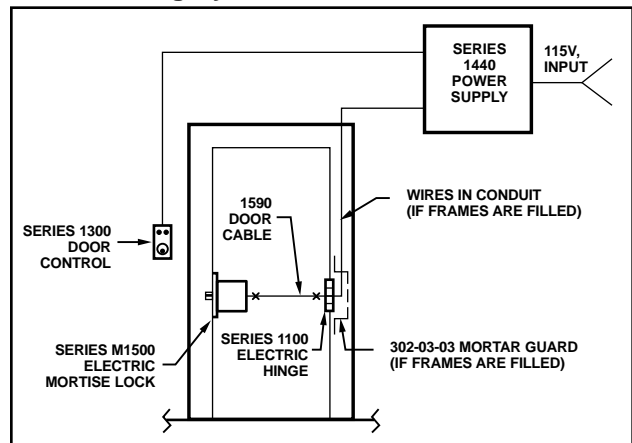**Note:** Available with battery back-up, see 1460 Power Supply

ACSI Automated Door Opening System

1440 POWER SUPPLY

ACSI 1440 Power Supply provides power for fail safe or fail secure locking devices. Each **1440** includes:

- Interface relay to isolate the locking device current from the control switch

- Auxiliary 24VDC constant voltage for powering stand alone devices, such as keypads, motion dectors, status indicators, etc.
- Field terminal block set at 45° for ease of installation

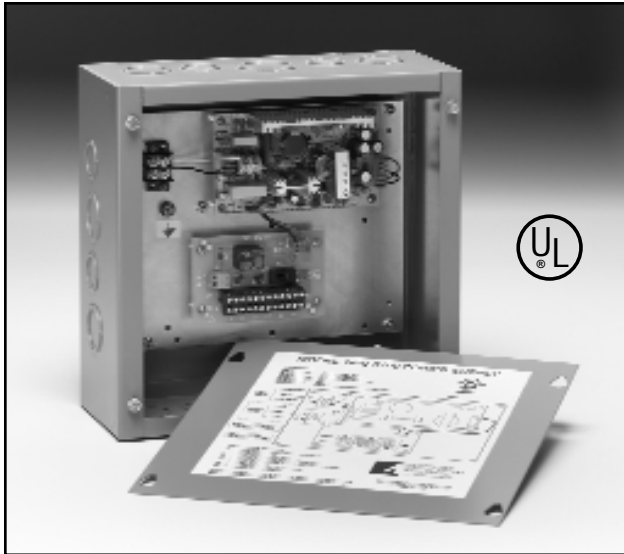**Note:** Available with battery back-up, see 1460 Power Supply

ACSI Locking System

1400-6100 POWER SUPPLY

ACSI 1400-6100 Power Supply is used exclusively with the ACSI Series 6100 Communicating Door (Common Bath) System. The ACSI **1400-6100 Power Supply** includes:

• Outputs to electrified locking devices that are field selectable for fail safe or fail secure function

• Up to 1 amp current draw allowable for each of two outputs to electrified locking device
• Inputs available for optional emergency release switch when urgent unlocking of the door is required
• Convenient field wiring of system components

**Note:** Available with battery back-up, see 1460 Power Supply

Description of System Operation
When the bathroom is not occupied, both doors are unlocked, and all indicators are extinguished. Upon entering the bathroom from one of the rooms, the occupant depresses the inside push-button switch to lock both doors (both doors must be closed in order for them to lock). When the doors lock, the red indicators inside the bathroom indicate that both doors are locked from the outside. The green indicators outside the bathroom denote that the bathroom is occupied. (Note: Both doors are always free egress and can always be unlocked mechanically from the outside with a key). When the occupant exits either door, both doors automatically return to the unlocked condition and all indicators are extinguished.
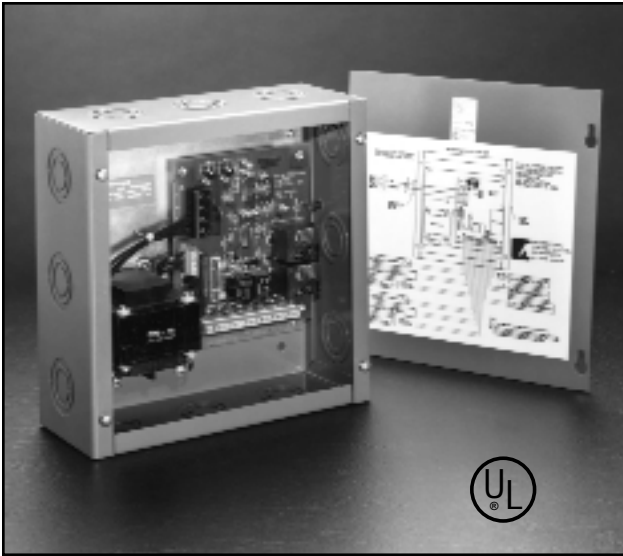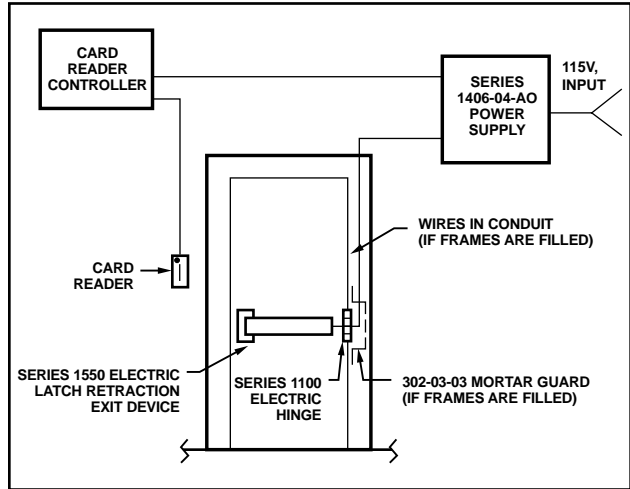
ACSI Communicating Door System
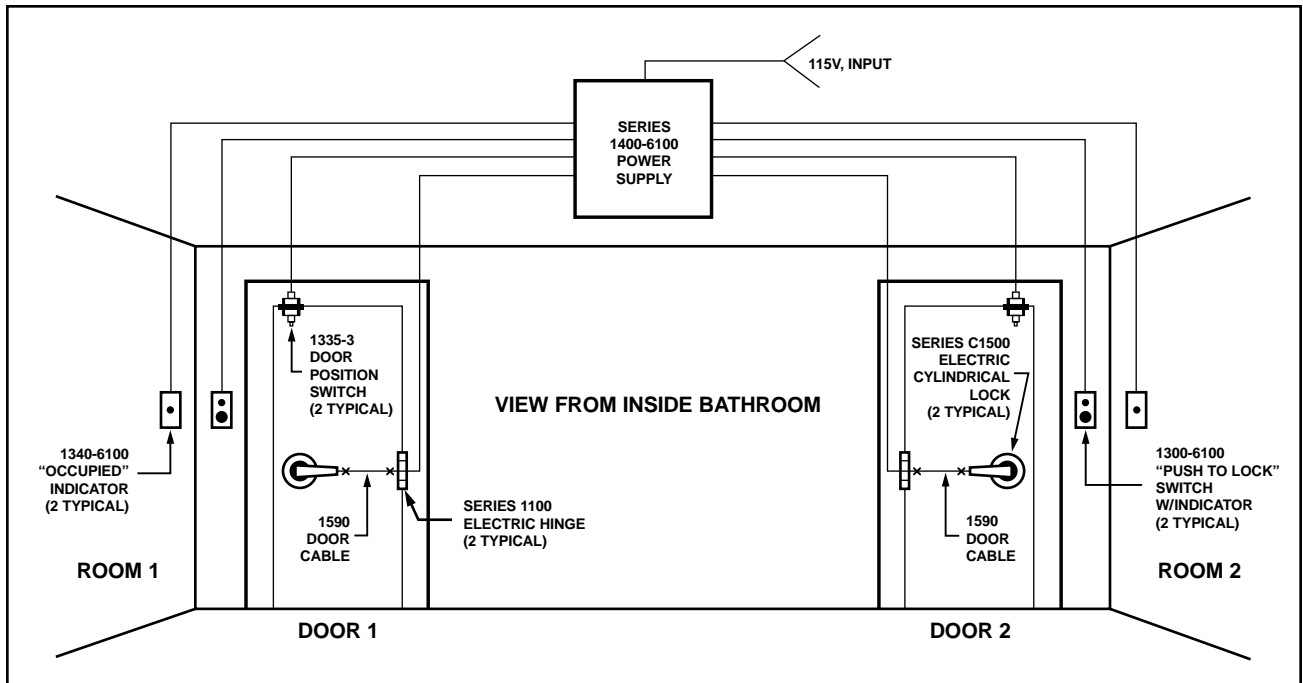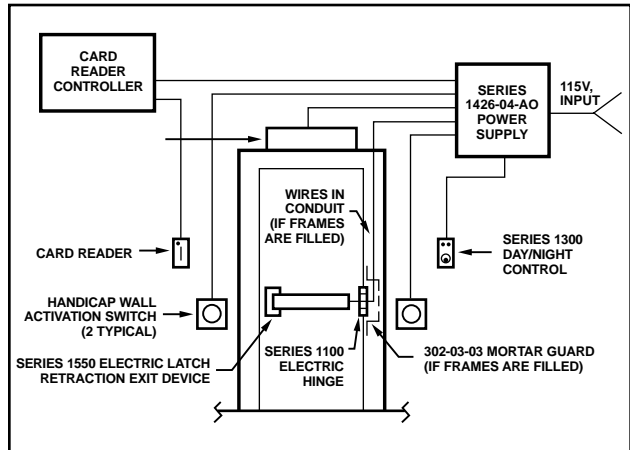
1406/1426 POWER SUPPLIES

ACSI 1406 and 1426 Power Supplies are designed to operate exit devices equipped with **ACSI Series 1550 Electric Latch Retraction.**

Features
• UL Listed
• Provides power and control electronics for up to two ACSI 1550 Electric Latch Retraction Exit Devices
• Select from independent control of single exit devices from separate inputs (one or two single doors) or sequential operation of two exit devices from a single input (pair of doors)
• Automatic door operator interface
• Fire alarm interface
• Field adjustable latch retraction time delay
• 24VDC, 12VDC constant voltage outputs (250 mA each)

Day/Night Mode-ACSI 1426 Power Supply
Provides a separate input for retracting one exit device or two exit devices sequentially without activating the automatic door operator. While the latches are held retracted, the auto-operator can be activated independently from a different input.

Note: Available with battery back-up, see 1460 Power Supply

ACSI 1406 Application

ACSI 1426 Application with Day/Night Feature

1460 BATTERY BACK-UP POWER SUPPLY
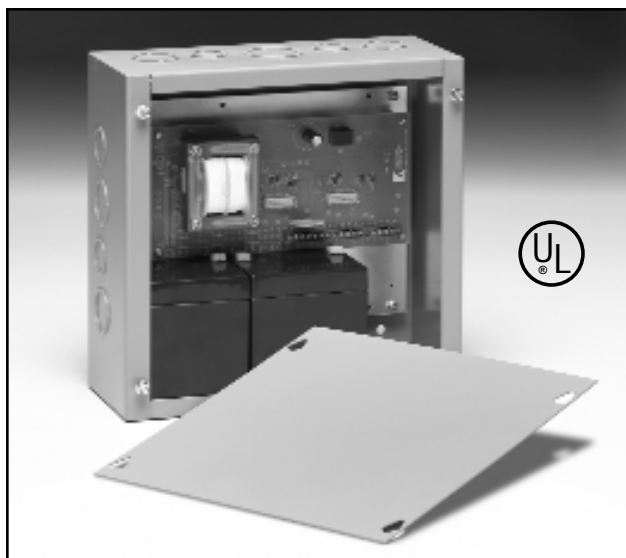
The ACSI 1460 Power Supply is designed to interface with ACSI **1410, 1420, 1440, 1400-6100, 1406, and 1426 Power Supplies** providing back-up voltage upon loss of AC power.

Features
- UL Listed
- Provides 2 hours back-up for 2 amp loads, 4 hours back-up for 1 amp loads, or 8 hours for .5 amp loads
- Includes two 12 volt, 4 amp-hour sealed lead acid batteries, battery leads, and power harness adapter
- Overload and short circuit protection
- Battery short circuit solid state protection (PTC)
- Up to 400 mA charging current

1490 DELAYED EGRESS POWER SUPPLY

The ACSI 1490 Power Supply is designed to interface with ACSI **electromagnetic locks** in a delayed egress locking application.

Features
- Compliance with NFPA code requirements
- Input for delayed egress activation
- Manual reset of delayed egress alarm
- Optional auto reset available
- Input for fire alarm interface
- Output for audible alarm
- Field adjustable delay for nuisance alarm, door release, request to exit, and auto reset delay times

Description of System Operation
The delayed egress alarm becomes activated when the push bar of the Series 1500 modified exit device is depressed. A concealed AE (request to exit) switch initiates an irreversible cycle that begins with the Series 1300 audible alarm sounding for a predetermined time (field adjustable) while the Series 3700 electromagnetic lock remains energized locking the door.

At the end of the timing cycle, the electromagnetic lock de-energizes and unlocks the door while the audible alarm continues sounding. The door will remain unlocked and in an alarm state until manually reset by the Series 1300 key switch. Resetting the system will lock the door by energizing the electromagnetic lock, and will turn off the audible alarm.

Note: The door must be fully closed prior to resetting the system. Resetting with the door open will energize the electromagnetic lock, but will not turn off the audible alarm. The audible alarm will also begin sounding if a forced entry occurs while the system is armed.

In the event of a fire alarm, the electromagnetic lock will immediately de-energize to unlock the door, and the audible alarm will sound. Upon resetting the fire alarm, the system will return to normal standby operation.

A sign above the exit device push bar warns that exiting will be delayed and will also be accompanied by an alarm.

ACSI 1490 Application
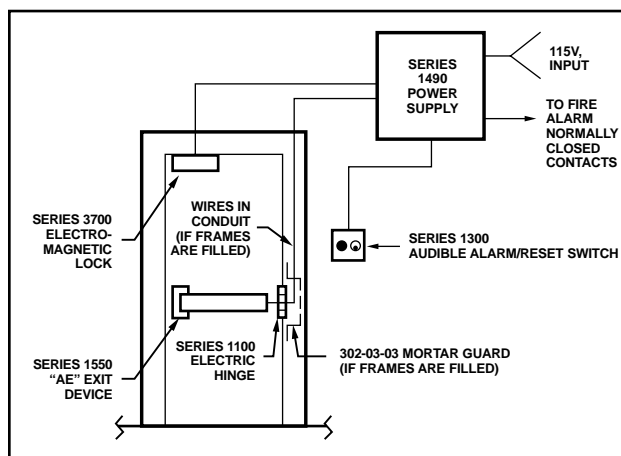
SERIES 1400 POWER SUPPLY SPECIFICATIONS

Input

1406, 1426, 1490
 - 120VAC, 0.75A, 60Hz
1410, 1420, 1440, 1460, 1400-6100
 - 120VAC, 1A, 50/60Hz
 - 240VAC, 0.6A, 50/60Hz

Output

1406, 1426
 - Main Output: 24VDC, 1.5A Unfiltered/Unregulated
 - Auxiliary 24V Output: 24VDC, 0.25A Unfiltered/Unregulated
 - Auxiliary 12V Output: 12VDC, 0.25A Unfiltered/Unregulated
1490
 - 24VDC, 0.85A Unfiltered/Unregulated
1410, 1420, 1440, 1400-6100
 - 24VDC, 2A Filtered/Regulated
1460
 - 24VDC, 4 AMP-Hour battery back-up

Enclosure Dimensions/Type

1406, 1410, 1420, 1426, 1440, 1460, 1400-6100
 - 10"x10"x4", NEMA Type 1 Screw Cover Junction Box
1490
 - 8"x10"x4", NEMA Type 1 Screw Cover Junction Box

Enclosure Weight

1410
 - 9 lbs (w/all four plug-in boards installed onto mother board)
1406, 1426
 - 12 lbs
1420, 1440, 1490, 1400-6100
 - 8 lbs
1460
 - 16 lbs (w/batteries)

ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED

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St. Louis, Missouri 63132
1-800-753-5558 • 314-432-5588
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www.acsi-inc.com
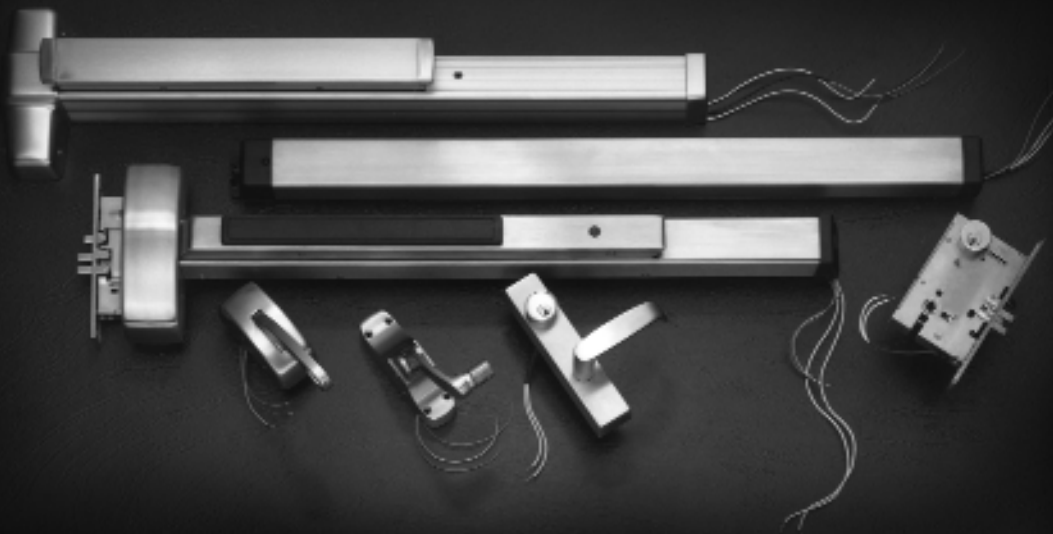
LOCK INTO THE ACSI ADVANTAGE

MODIFICATIONS TO:
ADAMS RITE
ARROW
CORBIN RUSSWIN
DORMA
DOROMATIC
MONARCH
PRECISION
SARGENT
VON DUPRIN
YALE
and more

SERIES 1500 ELECTRIC EXIT DEVICES CATALOG

ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED

SERIES 1500 ELECTRIC EXIT DEVICES

You supply the exit device and ACSI supplies high quality UL Listed modifications to a wide range of manufacturers exit devices. With over 25 years of electric locking experience, ACSI offers proven design, fast factory delivery and competitive pricing. ACSI engineers and technicians are available to provide system design, wiring diagrams and a variety of technical services.

ELECTRIC LATCH RETRACTION

ACSI Series 1550 Latch Retraction Exit Device modifications provide a remote means of unlocking exit devices.
• UL Listed for both Panic and Fire Exit Hardware
• Continuous duty solenoids retract the latch bolt for momentary or maintained periods of time
• Available in Mortise Exits, Rim Exits, Concealed and Surface Vertical Rod Exit Devices
• Standard ACSI Series 1550 System includes:
    1) ACSI Series 1550 Exit Device Modification
    2) ACSI Series 1406 or 1426 Latch Retraction Power supply
    3) ACSI Series 1100 Electric Hinge (no special unsightly power transfer device required)
• Options include Authorized Egress Switch, Latch Bolt Monitoring, Signal Switch and Pneumatic Control

Note: Electrified Vertical Rod Exit Devices are UL Listed to operate properly on doors not exceeding 48 inches wide and 96 inches high.

FAIL SAFE OR FAIL SECURE CONTROL

ACSI Series 1510/1520 Modifications provide a remote means of locking or unlocking of Mortise Exit Devices.
• Fail Safe (Power to Lock) Control
• Fail Secure (Power to Unlock) Control
• Continuous Duty Solenoids
• Options include Authorized Egress Switch and Monitoring
• No special power supply required

ELECTRIC TRIM CONTROL

ACSI Series 1560/1570 Modifications provide a remote means of locking or unlocking of outside lever handle trim controls.
• Fail Safe (Power to Lock) Control
• Fail Secure (Power to Unlock) Control
• Continuous Duty Solenoids

Note: Consult Factory for Vertical Rod Devices.

ELECTRIC DOGGING

ACSI Series 1540 Electric Dogging provides continuous latch retraction and dogging simultaneously. When the ACSI 1540 is energized, first time mechanical activation of the push bar will continuously hold the push bar and the latch retracted. When power is removed or interrupted from the 1540 exit device, the latch bolt will extend and the push bar is released.
• UL Listed for Fire Exit Hardware
• Provides quiet egress when electrically dogged - Ideal for theatres, libraries, churches and auditoriums
• 24VDC operation, no special power supply required
• Available in Mortise Exit, Rim Exit, Concealed and Surface Vertical Rod Exit Devices

Note: Consult factory for Mortise Exit applications. ACSI recommends a 1440 power supply. 1440 options can include an external 24 hour, 7 day or 365 day timer.

Series 1540 Typical Installation

Series 1550 Typical Installation

SERIES 1500 ELECTRIC EXIT DEVICES

ELECTRIC EXIT DEVICE MODIFICATION LISTING

Note: If you do not find the lock of your choice listed, please consult with our factory engineering staff. We may request that you send a sample for further evaluation.

Arrow	Corbin Russwin	Dorma	Monarch	Precision	Sargent	Von Duprin	Yale
SL	ED4000	F6000*	F-18*	800	700	33	7000
S1100	ED5000	F4000*		800S	900	35	
S1200				FL1100*	80	98	
S3000				FL1200*	20	99	
				FL1300*			
				FL1800*			

* Available in ACSI 1540 only. Consult factory for UL listed modifications.

ELECTRIC EXIT DEVICE LATCH RETRACTION COMPARISON CHART

Manufacturer	Latch Retraction Part No.	Power Supply Part No.	Latchbolt Monitor Part No.	Request To Exit Part No.
ACSI	1550	1406	LM	AE
Von Duprin	EL	PS872	LX	RX
Sargent	56	3510	—	55
Yale	P	781N	S	B
Corbin Russwin	M94	781N	M91	M92
Precision	ELR	ELR150	—	SS
Monarch	ELR	RDS-2	LM, DM	—
Dorma	ES	ES100	—	MS
Adams Rite	EL	ES100	LM	MS

1406 LATCH RETRACTION POWER SUPPLY

EXIT DEVICE SWITCH KITS

Series 1406 Power Supplies are designed and manufactured by ACSI to operate exit devices equipped with ACSI Series 1550 Latch Retraction Modifications.

All 1406 power supplies are supplied with wiring diagrams and detailed installation instructions. ACSI Engineers are available for any questions or consultation regarding wire gauge size, wire run length, or system operation.
• UL Listed
• Built-in adjustable time delay for automatic door operator interface
• Single or multi-door operation from one supply
• Fuse protected
• Fire alarm interface
• 24 volt or 12 volt outputs

Models Available
1406-04-AO Controls up to two doors
1426-04-AO Controls up to two doors, includes day/night mode operation

Typical 1426 Application
The 1426 power supply has all the features of the 1406 supply with the addition of a day/night mode for doors with an automatic door operator.

A pair of doors is to be controlled by a computerized time system where it is to be unlatched during business hours. During this time, a handicapped wall switch located on the exterior and interior sides of the door can be used to activate the automatic door operator.

After business hours, the computer locks the pair of doors and disables use of the exterior handicapped wall switch. The inside wall switch remains enabled after business hours and, when actuated, will momentarily retract the latches and activate the automatic door operator. To gain entry, a card reader located on the exterior side of the door momentarily retracts the latches and simultaneously enables the outside wall switch to be activated by the handicapped.

ACSI K Series Switch Kits are field installed in the touch bar or in the hinge style case of an exit device. K Series Switch Kits include an SPDT (Single Pole Double Throw) switch assembly with long wire leads and easy-to-follow installation instructions. K Switch Kits may be used to:
• Provide instant release of magnetic locks for free egress
• Activate a door alarm
• Signal a control console when the push bar of an exit device is depressed
• Shunt a door alarm to allow free egress

Models Available
K-100 Switch Kit for Von Duprin 33, 99
K-101 Switch Kit for Von Duprin 55
K-102 Switch Kit for Von Duprin 88
K-103 Switch Kit for Sargent 80 Series
K-104 Switch Kit for Sargent 9600, 9700, 9800, 9900
K-105 Switch Kit for Sargent 9300, 9400, 9500
K-106 Switch Kit for Adams Rite 8000, 3000
K-107 Switch Kit for Corbin Russwin 8000 and Yale 2100
K-108 Switch Kit for Jackson 1085, 1095
K-109 Switch Kit for Yale 7000 and Corbin Russwin ED4000, ED5000
K-110 Switch Kit for Monarch 18, 19
K-111 Switch Kit for Doromatic 990, 1090
K-112 Switch Kit for Doromatic 1490, 1590
K-113 Switch Kit for Corbin Russwin 39, 572
K-114 Switch Kit for American Device 4000, 6000
K-115 Switch Kit for Precision FL APEX Series
K-123 Latch Monitor Kit for Von Duprin 33,99
K-124 Switch Kit for Precision 2000 Series

Note: Field modification of UL Listed devices voids the UL Listing.

ELECTRICAL SPECIFICATIONS

1510/1520
.33 AMP @ 24 Volts + 2V
.61 AMP @ 12 Volts ± 1V
1540
.225 AMP @ 24 Volts ± 2V
1560/1570
.33 AMP @ 24 Volts ± 2V
.61 AMP @ 12 Volts ± 1V
Monitoring Contact Rating
4 AMP @ 250 VAC

LOCK INTO THE ACSI ADVANTAGE
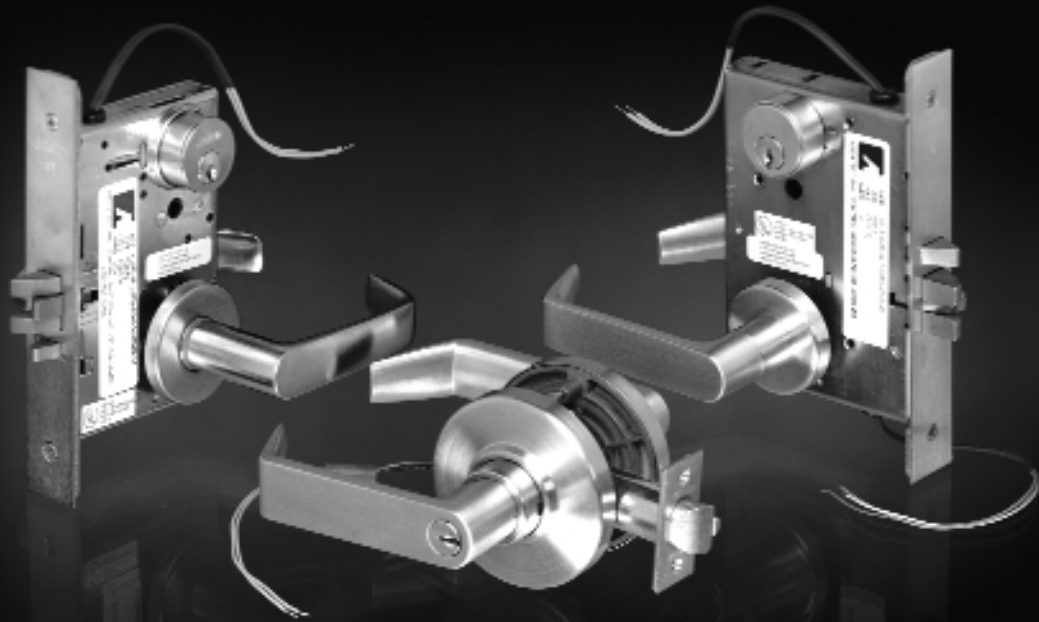
MODIFICATIONS TO:

ARROW

BALDWIN

BEST

CORBIN/RUSSWIN

FALCON

MARKS

PDQ

SARGENT

SCHLAGE

YALE

SERIES 1500 ELECTRIC LOCK CATALOG

ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED

SERIES 1500 ELECTRIC LOCKS

ACSI supplies high quality UL Listed modifications to a wide range of manufacturers locksets. Series 1500 electric locks provide safety and security for stairtower doors or controlled areas where both locking and latching are required. The Series 1500 locks allow remote electric locking or unlocking while conforming to life-safety codes.

Features
• UL Listed
• Fail Safe (Power Lock)
  Outside trim is locked when power is applied and unlocked when power is removed (storeroom function when energized). Lockset will unlock in event of power failure (passage function).
• Fail Secure (Power Unlock)
• Continuous duty solenoids
• 24VDC, 24VAC, 12VDC, 12VAC or pneumatic operation
• When key cylinders are provided in the locks, the latchbolt may be momentarily retracted with key even though electrically locked. NOTE: Locks that are electrically unlocked may not be locked via the key cylinder.
• Security cap monitoring available
• Authorized Egress (Request to Exit) available
• Interface with Life-Safety Systems

Applications
Stairtower doors, office doors, classrooms, inter-locks, elevator lobby doors, laboratories, computer rooms, cashier stations, hospital equipment rooms, pharmaceutical storage rooms.

Typical Installation
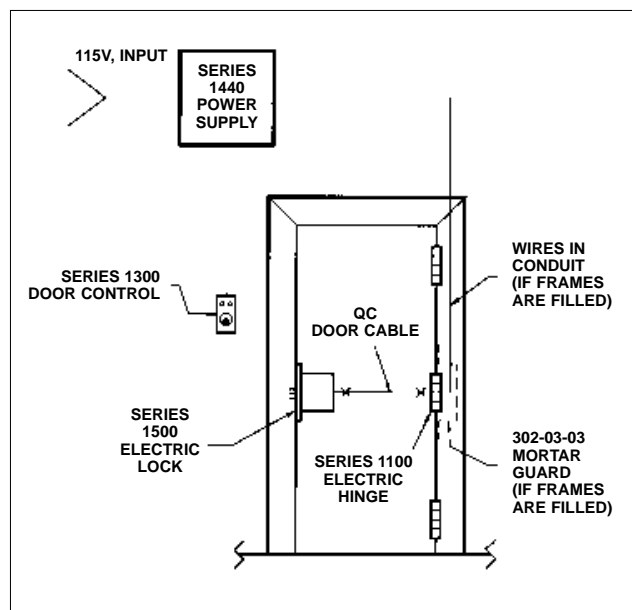
ELECTRIC LOCK COMPARISON CHART

ACSI	Corbin Russwin	Schlage	Yale	Sargent	Arrow	Best
M1510C-00-1	ML20903	L9080EL	8790	7770	177	35EWEL
	ML20910		8690	8270		35WWEL
M1510C-00-2	ML20901	L9082EL	8794-2	7772		
	ML20920		8694-2	8272		
M1520C-00-1	ML20905	L9080EU	8791	7771	178	35EWEU
	ML20930		8691	8271		
M1520C-00-2	ML20940	L9082EU	8795-2	7773		35WWEU
	ML20940		8695-2	8273		
C1510C-00-1	CL33903	ND80PDEL		10G70	Q177	
C1520C-00-1	CL33905	ND80PDEU		10G71	Q178	

HOW TO ORDER

1 Lock Type	2 Modification Number	3 Options	4 Locking	5 Lock Part No.	6 Operating Voltage	7 Quick Connect Cable	8 Handing
M C MU	1510 1520	AE LM SM	1 2	Full Part Number	24VDC 24VAC/DC 12VDC 12VAC/DC	QC	RH LH RHR LHR
Example: M	1510	AE	1	L9070 (Schlage)	24VDC		RH

1. Lock Type (Select type of lock to be modified)

Model	Description
M	Mortise Lock
C	Cylindrical Lock
MU	Unit Lock

2. Modification Number
   (Select type of modification required)

Model	Description
1510	Fail Safe Control
1520	Fail Secure Control

3. Options

Authorized Egress (**AE)**
ACSI Authorized Egress (Request to Exit) is a
SPDT switch which monitors the activation of the
INSIDE trim.
The **AE** switch can be used to:
• Shunt a door alarm to allow egress
• Signal a control console when the trim is activated
• Activate a door alarm
• Control an electromagnetic lock for egress
Latch Bolt Monitor (LM)*
• Latch bolt monitoring is a SPDT switch which
  monitors the full extension of the main latch.
Security Monitoring (SM)*
• The ACSI **SM** option monitors, in series, solenoid
  status (locked or unlocked) and latch status
  (deadlatch position).

Note: Leave #4 blank if no options are required.
* Not available on cylindrical locks.

4. Locking

Model	Description
1	Standard control locks outside (secure side) trim.
2	Locks both sides – Mortise locks only.

5. Lock Part No.

Distributors supply ACSI with mortise, cylindrical or
unit locks for modification. Please supply the lock
manufacturer's part number.

Example: L9070, 8237, 8708, ND80, 3357, etc.

Note: Refer to the last page of this catalog section
for a complete listing of locks required by ACSI.

6. Operating Voltage

Model	
24VDC	24VAC/DC
12VDC	12VAC/DC

Note: Mortise locks can be supplied with pneumatic
control. Consult factory.

7. Handing

Model	Description
RH	Right Hand
LH	Left Hand
RHR	Right Hand Reverse
LHR	Left Hand Reverse

8. Quick Connect Cable

Model	Description
QC	Quick Connect Cable
	• QC4 - 22AWG 2 conductor 6' quick- connect cable with two position connector. Allows for ease of installation in transfer of power from the lock to the electric hinge.

ACCESSORIES

Model	**Description**
1580-1	AC/DC Converter
1580-2	Voltage Regulator

- Regulates source voltages up to 30 volts DC (35 volts AC) to a 24VDC output level.
- Works with AC or DC source voltages
- Can be used with 24VAC/DC rated cylindrical or mortise locks up to 360MA.
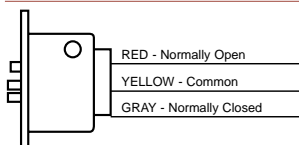- UL Listed

ELECTRIC LOCK MODIFICATION LISTING

Note: If you do not find the lock of your choice listed, please consult with our factory engineering staff. We may request that you send a sample for further evaluation.

Manufacturer	Mortise Locks	Cylindrical Locks	Unit Locks
Accurate	9100		
Arrow	A17 B17 AM17 BM17	H12 Q12	
Baldwin	6065 6065LS		
Best	34H7J 35H7J		
Corbin Russwin	2055	3357	UT5257
Falcon	ML561		
PDQ	MR115	GT115	
Sargent	7737 8237	10G04	
Schlage	L9050 L9070 L9080* 9453	D80 (Lever) D53 (Knob) D94 ND80 ND94	
Yale	8708		

* Schlage L9080 must be supplied with extra spring cage to compensate for lever sag of outside trim.

LOCK SCHEMATICS

AE - Authorized Egress

RED - Normally Open
YELLOW - Common
GRAY - Normally Closed

LM - Latchbolt Monitor

BLACK - Common
RED - Closed Loop Secure
WHITE - Open Loop Secure
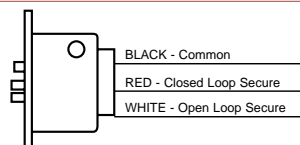
SM - Security Monitoring

BLACK - Common
GREEN - Closed Loop Secure
BROWN - Open Loop Secure

1510/1520

BLUE
BLUE — AC POWER LEADS

WHITE
WHITE — DC POWER LEADS
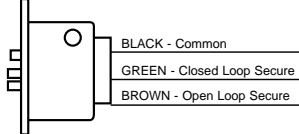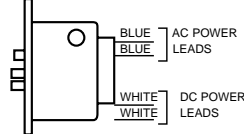
Note: Red TY-Wrap on leads designates 12 volt

ELECTRICAL SPECIFICATIONS

M1510/1520	12VAC/DC	612 ma
	24VAC/DC	330 ma
C1510/1520	12VAC/DC	250 ma
	24VAC/DC	150 ma
MU1510/1520	12VAC/DC	612 ma
	24VAC/DC	330 ma

LOCK INTO THE ACSI ADVANTAGE

ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED
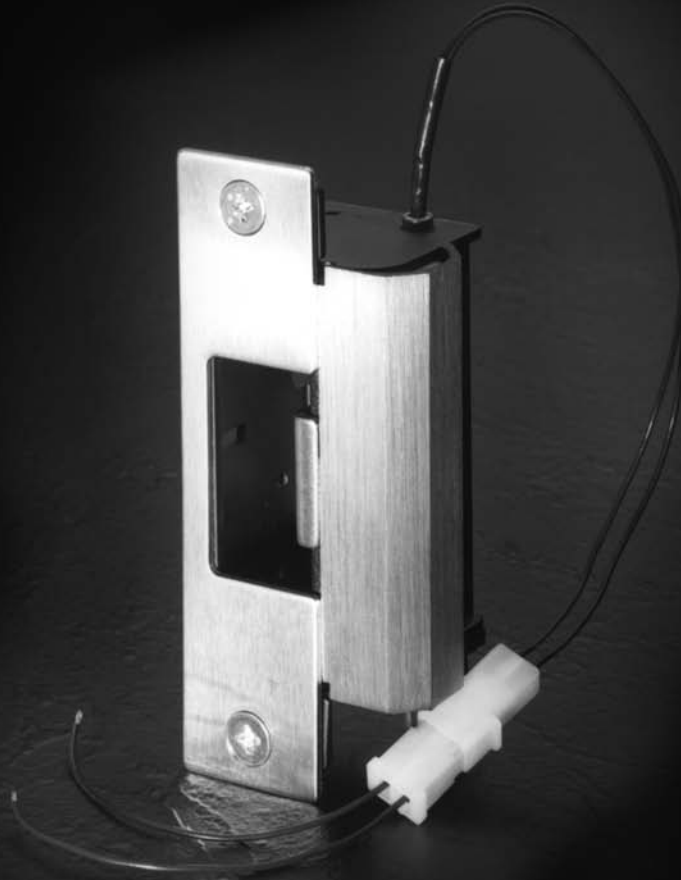
SERIES 1700 HEAVY DUTY ELECTRIC STRIKES

ACSI Series 1700 Electric Strikes are fire rated and heavy duty for use with cylindrical, mortise, and specialty locksets. Designed for high usage and Grade 1 applications, the 1700 accommodates all locksets with an ANSI 4-7/8" cutout. Accommodates up to a 1" throw.

Features
- BHMA 156.31, Grade 1
- UL 1034, burglary resistance
- UL 10C, 3 hour fire rated (fail secure only)
- Dual voltage field selectable 12/24 VDC
- 27 faceplate options available
- Includes trim enhancer and keeper shims

Series 1700 Typical Installation

HOW TO ORDER

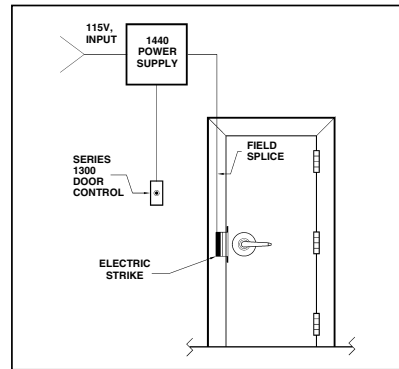| 1 Model	2 Options	3 Voltage	4 Finish
Example: 1700KD	F	24VDC	32D

1. Models Available

Model	Description	Finish
1700J	Cylindrical locksets up to 3/4" throw and all locksets with center-lined bolts (including tubular deadbolts up to 1" throw)	32D
1700K	Mortise locksets with a deadlatch positioned above the latchbolt	32D
1700N	Mortise locksets where the deadbolt is used for night-latch function only	32D
1700A	Mortise locksets with a normally extended 1" deadbolt without a deadlatch	32D
1700T	Mortise locksets with a normally extended 1" deadbolt and a center-lined deadlatch	32D
1700R	A hookbolt up to 1" throw	32D
1700E	Corbin Russwin Security Bolt, Weiserbolt, and normally extended 1" tubular deadbolts	32D
1700Z	Unit and mono locks	32D
1700HT	ASSA model 504 mortise lockset with two latchbolts and a center deadlatch	32D

"D" model strikes listed below are designed to accommodate Schlage L Series, Sargent 7700 and 8100 Series, and Yale 8700 offset mortise locks.

Model	Description	Finish
1700KD	Mortise lockset with a deadlatch positioned above the latchbolt	32D
1700ND	Mortise locksets where the deadbolt is used for night-latch function only	32D
1700AD	Mortise locks with a normally extended 1" deadbolt without a deadlatch	32D
1700TD	Mortise locksets with a normally extended 1" deadbolt and a center-lined deadlatch	32D
1700HD	Mortise locksets with a 1" deadbolt without a deadlatch. The deadbolt is not released.	32D
1700 HTD	Mortise locksets with a 1" deadbolt and a center-lined deadlatch. The deadbolt is not released.	32D

1. Models Available (cont.)

▦			

Model	Description	Finish
	"M" model strikes listed below are designed to accommodate mortise locks with a deadlatch positioned below the latchbolt.	
1700KM	Mortise locksets with a deadlatch positioned below the latchbolt	32D
1700NM	Mortise locksets with a deadlatch positioned below the latchbolt and where the deadbolt is used for night-latch function only	32D
1700AM	Mortise locksets with a normally extended 1" deadbolt and deadlatch positioned below the latchbolt	32D
1700HM	Mortise locksets with a 1" deadbolt with a deadlatch positioned below the the latchbolt. The deadbolt is not released.	32D

Electric Strikes/Exit Devices

Model	Description	Finish
1783	Rim exits in metal frame applications with a 3/4" pullman latch	32D
1786	Rim exits in aluminum frame and surface vertical rod exit devices with up to 3/4" pullman latch	32D

2. Options

	▦		

Model	Description
-2	Wood frame applications. Available with J, K, KD, KM, N, T, A, and H strikes.
F	Fail Safe
LBM	Monitors position of latchbolt. Available with J, K, KD, KM, N, ND, NM, Z, J-2, K-2, and KM-2 strikes.
LBSM	Monitors position of latchbolt and keeper. Available with K and KD strikes.

Note: Leave blank if no options are required.

3. Operating Voltage

		▦	

Model
24VDC/12VDC Field Selectable

4. Finish

			▦

Model
Housings available in Black or 32D
Options/faceplates available in Black, 32D, 3, 4, 10, 26, and 10B

Accessories

Model	Description
2001	**Plug-in bridge rectifier**. Converts AC to DC for applications using an AC voltage source.
2005	**Smart Pac II**. In-line power control able to receive input voltages from 12-32V AC or DC. Built-in bridge regulator provides 12 or 24VDC output. Under continuous duty the output VDC is reduced by 25% to extend the life of the electric strike. Includes in-line fuse, MOV, and 2-8 second adjustable timer.
2006P	**Plug-in buzzer**. Audible operation indicator.
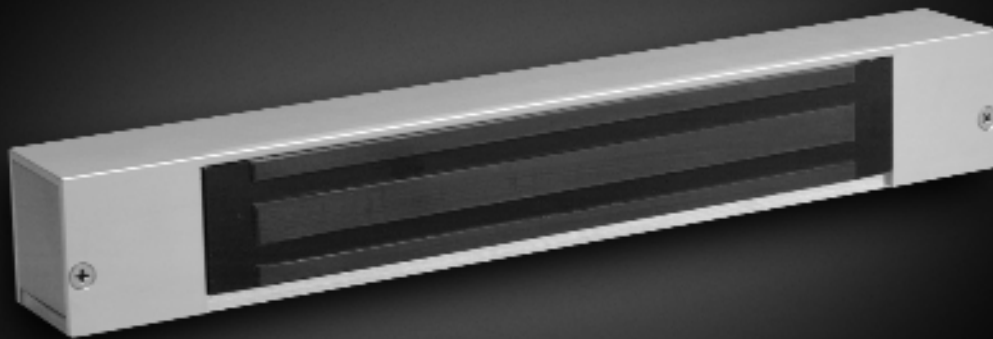
ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED

SERIES 3700 ELECTROMAGNETIC LOCKS

ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED

SERIES 3700 ELECTROMAGNETIC LOCKS

The Series 3700 UL Listed Electromagnetic Locks combine high security features with fail safe operation and conform with life-safety codes. The Series 3700 is designed for single or pairs of outswing or inswing doors.

Features
- UL Listed
- Variety of models available
- Positive fail safe security
- No moving parts - maintenance free
- Low power consumption
- Built-in surge and spike protection
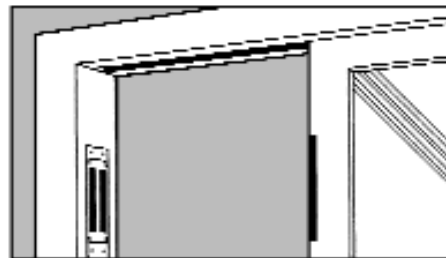- Built-in door position sensor

Options
- Magnetic bond sensors
- Built-in delay actuator switches
- Power LED
- Custom length housings
- Variety of architectural finishes
- Glass door brackets

Electrical Specifications
Current draw: .50 amps @ 12 volts
.25 amps @ 24 volts
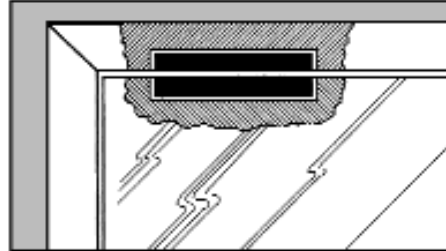
3795 Shear locks are concealed in door frames.

3750 Magnetic locks will secure sliding doors.

HOW TO ORDER

1. Model

Model	Description
3710	Single 1200 lb. magnetic lock (outswing)
3711	Single 1200 lb. magnetic lock with Z bracket (inswing)
3720	Double 1200 lb. magnetic lock (outswing)
3721	Double 1200 lb. magnetic lock with Z bracket (inswing)
3750	Single 1200 lb. magnetic lock for sliding doors
3760	Single 300 lb. magnetic lock
3770	Double 300 lb. magnetic lock
3780	Single 600 lb. magnetic lock
3790	Double 600 lb. magnetic lock
3795	Concealed magnetic shear lock

2. Voltage

Model
24VDC
12VDC
24VAC
12VAC

3. Finish

Model	Description
SA	Satin Aluminum
BA	Black Anodized
GA	Gold Anodized
DBN	Dark Brown Anodized
US3	Bright Brass
US4	Satin Brass
US26	Bright Chrome

4. Options

Model	Description
MBS	Magnetic bond sensor
BDA	Built-in delay actuator switch
L1	1 LED (Green or Red)
L2	2 LED's (Green or Red)
FP1	Filler plate, single magnet*
FP2	Filler plate, double magnet*
GLB-1	1/2" glass door bracket
GLB-2	3/4" glass door bracket
AB-1	Angle bracket for single magnet
AB-2	Angle bracket for double magnet

* Specify 1/2" or 5/8" thick.

Note: Please consult the factory for custom length decorative housings.

LOCK INTO THE ACSI ADVANTAGE

SERIES 5650 CONTROL CONSOLES

**ARCHITECTURAL
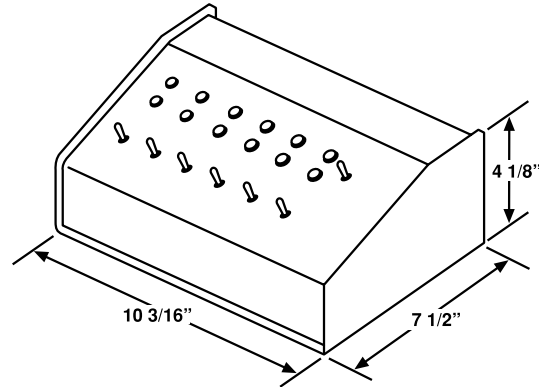CONTROL SYSTEMS,
INCORPORATED**

SERIES 5650 CONTROL CONSOLES

ACSI Series 5600 Control Consoles provide centralized control and monitoring of openings equipped with electric locking devices and/or door position switches.

Features
- Desk top mount with sloped front
- Individual channel lock/unlock and monitoring
- Built-in 2 amp power supply
- Green and red status LED's
- Internal audible alarm
- Two through six channel control
- Alarm acknowledge reset switch
- Choice of fail safe or fail secure control per channel

Size Requirements

4 1/8"

10 3/16"   7 1/2"

TYPICAL INSTALLATION

WIRES IN CONDUIT (IF FRAMES ARE FILLED)

QC DOOR CABLE

SERIES 1500 ELECTRIC LOCK

302-03-03

MORTAR GUARD

SERIES 1100 ELECTRIC HINGE

115 VOLT INPUT

5650 SERIES CONTROL CONSOLE (LOCATE AT SECURITY STATION)
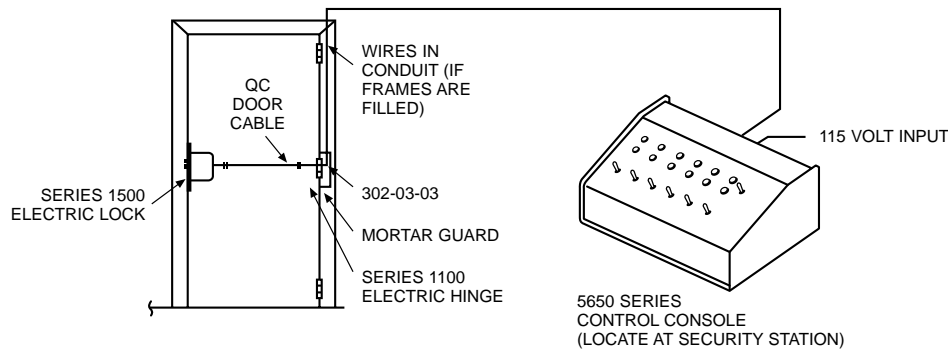
OPERATING VOLTAGE

Part Number	Total Current	Current Per Channel	Standard Voltage
5650-02	2 amps	1 amp	24VDC
5650-03	2 amps	.67 amp	24VDC
5650-04	2 amps	.5 amp	24VDC
5650-05	2 amps	.4 amp	24VDC
5650-06	2 amps	.33 amp	24VDC

HOW TO ORDER

Type	Channels
5650	

5650 Desk Top Control Console

02 - 2 Channel
03 - 3 Channel
04 - 4 Channel
05 - 5 Channel
06 - 6 Channel
(specify)
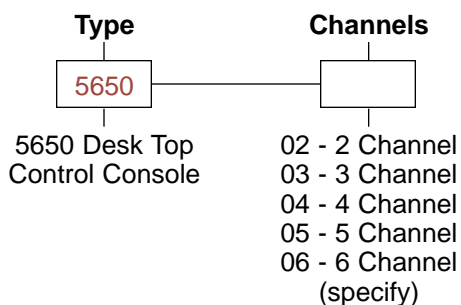
LOCK INTO THE ACSI ADVANTAGE

SERIES 6100 COMMUNICATING BATH DOOR SYSTEM

ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED
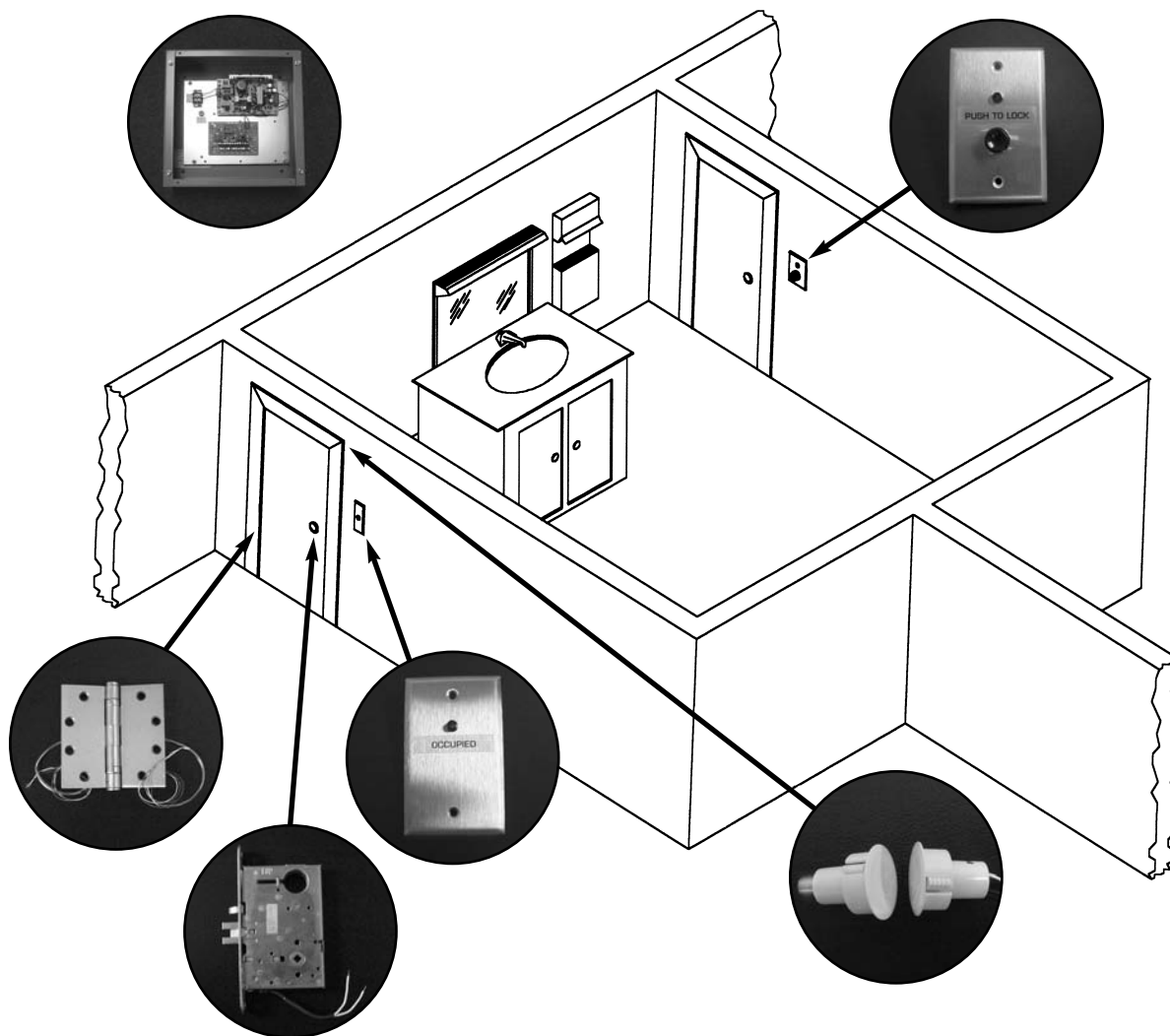
SERIES 6100 COMMUNICATING BATH DOOR SYSTEM

The ACSI Series 6100 System is designed to coordinate access to a common bathroom facility from adjoining rooms. This System allows more efficient utilization of floor space in facilities by eliminating the need for a bathroom in each room.

Features
- Fail safe system - doors will unlock when power is removed
- Free egress at all times
- User privacy
- Eliminates accidental lock-out of either room to the bathroom
- Mechanical key override allows personnel to enter during an emergency
- 1400-6100 Power supply provided

Options
- Series 6100 System will require one of the following electric locking devices:
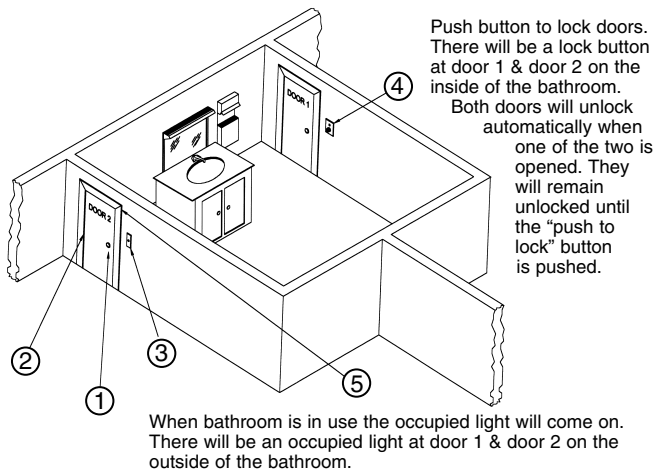 - **A** (2) mortise or cylindrical locks with ACSI 1510C-00-1-24VDC/AC modifications plus (2) ACSI Series 1100 Electric Hinges
  - **B** (2) 8500-M-PL-24VDC/AC Gemini Locking Systems
- 1320-1 push button switch, normally closed, located above outside doors (used for emergency release).

Push button to lock doors. There will be a lock button at door 1 & door 2 on the inside of the bathroom. Both doors will unlock automatically when one of the two is opened. They will remain unlocked until the "push to lock" button is pushed.

When bathroom is in use the occupied light will come on. There will be an occupied light at door 1 & door 2 on the outside of the bathroom.

Item	Qty	Description
1	2 Each	Fail Safe locks. Specify one of the following options: • M1510C-00-1-24VDC/AC* • C1510C-00-1-24VDC/AC* • 8500-M1-PL-24VDC/AC*
2	2 Each	Electric hinges, Model 1104 (Not required on 8500 locking device)
3	2 Each	Indicators marked "Occupied"
4	2 Each	Push buttons with indicator marked "Push to Lock"
5	2 Each	Door position switches
6	1 Each	1400-6100 Power Supply, 24DC @ 2 amp (not pictured)

Description of System Function
When the bathroom is not occupied, both doors are unlocked, and all indicators are extinguished. Upon entering the bathroom from one of the rooms, the occupant depresses the inside push-button switch to lock both doors (both doors must be closed in order for them to lock). When the doors lock, the red indicators inside the bathroom indicate that both doors are locked from the outside. The green indicators outside the bathroom denote that the bathroom is occupied. (**Note:** Both doors are always free egress and can always be unlocked mechanically from the outside with a key). When the occupant exits either door, both doors automatically return to the unlocked condition and all indicators are extinguished.

HOW TO ORDER

1. Series 6100 System

2. Electric Locking Device Required

The Series 6100 System requires one of the following options:
- **A.** 2-M1510C-00-1-24VAC (Electric Mortise Locks)
- **B.** 2-C1510C-00-1-24VAC (Electric Cylindrical Locks)
- **C.** 2-8500-M1-PL-24VAC (Gemini Locking System)

Note: Specify lock manufacturer being used - i.e. Schlage, Corbin, Sargent, Yale, etc.

3. Series 1104 Electric Hinges

Series 6100 System requires (2) ACSI Series 1104 electric hinges if options A or B are supplied. Please specify manufacturer, weight, size, and finish of the hinge required.
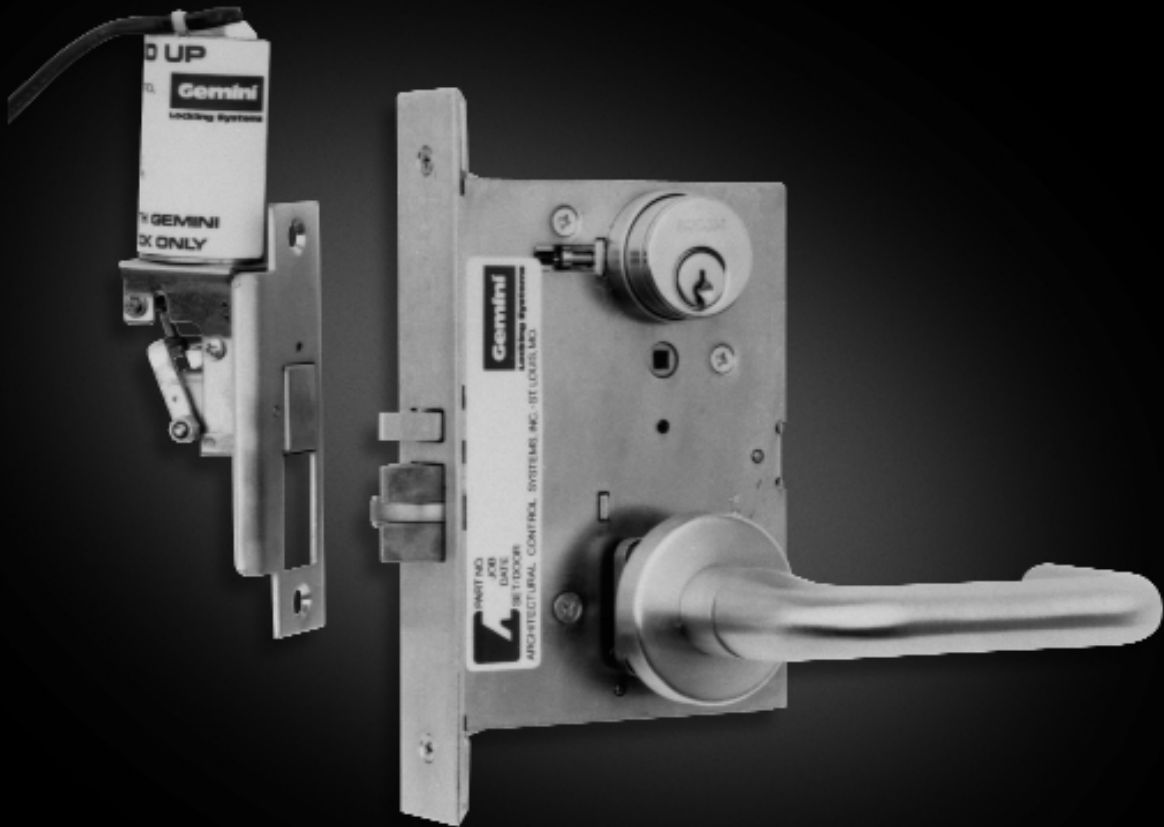i.e. Hager BB1279 4.5 x 4.5 - 26D - 1104
     Stanley FBB191 5 x 4.5 - 10B - 1104

Example:
6100 - A - BB1279 4.5 x 4.5 - 26D - 1104
6100 - B - FBB191 5 x 4.5 - 10B - 1104

* **Note:** Electric lock/Gemini option and electric hinge option are not included in the Series 6100 price.

SERIES 8500 GEMINI® LOCKING SYSTEMS

**ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED**

SERIES 8500 GEMINI® LOCKING SYSTEM

The patented ACSI Gemini Locking System provides safety and security for stairtower doors or controlled areas where both locking and latching are required. The Gemini system allows remote electric locking or unlocking while conforming to life-safety codes. The System consists of two components: a Gemini modified Mortise Lockset and a frame mounted Gemini Operator.

Features
- UL Listed Gemini Mortise Lock - no special door prep
- UL Listed Gemini Operator located in the frame
- Ability to work with a wide range of manufacturers of mortise locks:
  - Arrow
  - Baldwin
  - Best
  - Corbin Russwin
  - Schlage
  - Yale
- Fail Safe (Power Lock)
  - Outside trim is locked when power is applied, and unlocked when power is removed (store-room function when energized). Lockset will unlock in event of power failure (passage function).
- Fail Secure (Power Unlock)
  - Outside trim is unlocked when power is applied and locked when power is removed. Lockset will lock in event of power failure.
- 115VAC, 24VDC, 24VAC, 12VDC, 12VAC, or Pneumatic operation
- Mechanical Key Override
  - When key cylinders are provided in the locks, the latchbolt may be momentarily retracted with key even though electrically locked.
  - Note: Locks that are electrically unlocked may not be locked via the key cylinder.
- Interface with life-safety systems
- Easy installation: Gemini operator fits easily into 2" face frames. Only one wiring termination.
- Optional quick connect cable
- Continuous duty solenoids
- Heavy duty stainless steel housing
- Security monitoring available
- Interface with Life-Safety Systems

Series 8500 Typical Installation
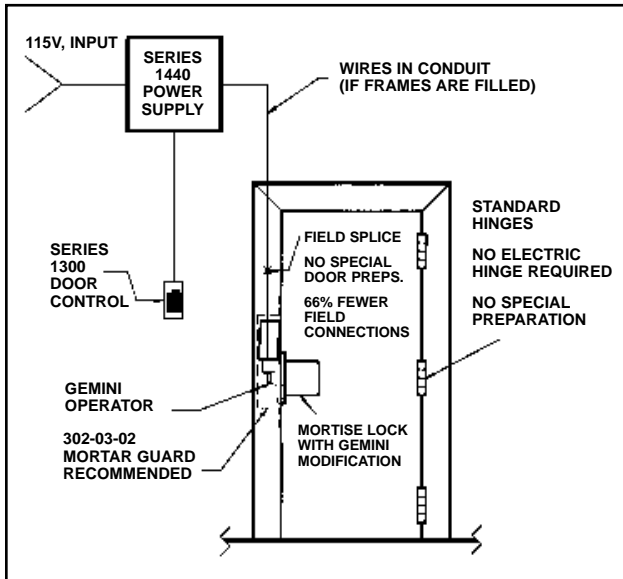
HOW TO ORDER

1 Model	2 Lock Type	3 Control Mode	4 Voltage	5 Quick Connect Cable	6 Security Monitoring	7 Finish	8 Handing	9 Lock Mfg. Part No.
8500 8500F	M1 M2 E	PL PUL	24VDC 24VAC/DC 12VDC 115VAC Pneumatic	QC	CLS OLS	26D	LH RH LHR RHR	L9070 2055 8708 BM17
Example: 8500	M1	PL	24VDC	QC	CLS	26	DLH	L9070

HOW TO ORDER

1. Gemini Operator

Model	Description
8500	The standard Gemini operator is designed for 2" frame face applications and fits a standard ANSI 4-7/8" frame prep.
8500F	Also designed for 2" frame face applications, this operator is supplied with an oversized strikeplate for easy installation in retrofit applications.

2. Lock Type

Model	Description
M1	Mortise lock with one side (lever or knob) locked
M2	Mortise lock with both sides (lever or knob) locked
E	Mortise exit with outside locked only

3. Control Mode

Model	Description
PL	Power Lock (Fail Safe)
PUL	Power Unlock (Fail Secure)

4. Voltage or Air Powered Operator

The Gemini can be supplied with a broad range of electric or air requirements.

Model
24VDC
24VAC/DC
12VDC
115VAC
Pneumatic

5. Quick Connect Cable

Model	Description
QC	An optional quick connect cable 10' in length with stripped wires at one end for splicing into an electrical box or power supply and with a connector on one end for quick connect to the Gemini operator is automatically supplied with a matching connector.

Note: Leave this space blank if not required.

6. Security Monitoring

Model	Description
CLS	Closed Loop Secure - Monitor
	• When lock is secure (latch in strike-operator in locked position), monitor loop is a closed circuit. The circuit opens if security is breached.
OLS	Open Loop Secure - Monitor
	• When lock is secure (latch in strike-operator in locked position), monitor loop is an open circuit. The circuit closes if security is breached.

Note: Leave this space blank if not required.

7. Finish

Specify US standard architectural hardware finish as required.

8. Handing

Model	Description
LH	Left Hand
RH	Right Hand
LHR	Left Hand Reverse
RHR	Right Hand Reverse

9. Lock Manufacturers Part Number

Distributors supply ACSI with mortise or mortise exit lock bodies for Gemini modification. Please supply the lock manufacturer's part number.

Example: L9070, 8708, 2055, BM17

Note: Refer to the Gemini Series 8500 price list for a complete listing of locksets that can accept the Gemini modification.

ACCESSORIES

Model	Description
302-03-02	Gemini Mortar Guard, 15"

GEMINI LOCK MODIFICATION LISTING (INDICATES LOCK SETS THAT ARE UL LISTED)

Note: If you do not find the lock of your choice listed, please consult with our factory engineering staff. We may request that you send a sample for further evaluation.

Arrow	Baldwin	Best	Corbin Russwin	Precision	Sargent	Schlage	Yale
A12	6065	35H6J	2055	800	900 Series 13	L9050	8708
B12	6065LS	35H7J			or 63 Function	L9070	
A17						L9080*	
B17							

*L9080 must be supplied with extra spring cage to compensate for lever sag of outside trim.

GEMINI COMPARISON CHART

ACSI - Gemini	Corbin Russwin	SDC Hitower
Fail Safe		
8500-M1-PL	ML20950, ML20906	7550, 7540
8500-M2-PL	ML20960, ML20907	7530
8500-M1 or M2-PL*		7510, 7520
Fail Secure		
8500-M1-PUL	ML20970, ML20908	7570
8500-M2-PUL	ML20980, ML20909	7560

*Please consult the factory for proper part number.

ACSI	Description	SDC
CLS, OLS	Monitoring	9A, 69A
QC	Quick-Connect Cable	SC-10
302-03-02	Mortar Guard for 2" Face Frame	7500-EB-S

Operator Specifications

Electrical
8500 Series
  12 volt @ 1.25 amp
  24 volt @ 0.6 amp
  115 volt @ 0.13 amp

Pneumatic
8500 Series
  75-100 psi filtered dried
  and unoiled

Monitoring Contact Rating
  30 VDC (only) @ 0.5 amp