Yale®

MORTISE AND CYLINDRICAL LOCKS

ELECTRIFIED

CATALOG

An ASSA ABLOY Group brand

ASSA ABLOY

INTRODUCTION

INTRODUCTION

Yale® electrified locksets incorporate the highest level of security available with the added flexibility and security of remote electrical control. A solenoid, integral to the lock mechanism, controls the lock function from any remote switch.

The system can be ordered for "Fail Safe" (doors open during power outage) or "Fail Secure" (doors locked during power outage).

Yale electrified locksets permit monitoring and control for locking and unlocking doors from a single remote location and can also be tied into fire alarm systems.

When mechanical key override is desired, Yale recommends the use of its patent proteted key system, *Yale* KeyMark®. This helps ensure the security of the electromechanical lock by:

- Providing patent protection against unauthorized key duplication
- Providing increased resistance against picking and impressioning
- Enabling one key to operate small format IC, large format IC and fixed core cylinder

BASIC USE

Fail Safe
Ideally suited for fire-related stairwell doors where security is desired but where codes require positive latching (NFPA 80) and automatic unlocking (NFPA 101) in a fire alarm situation.

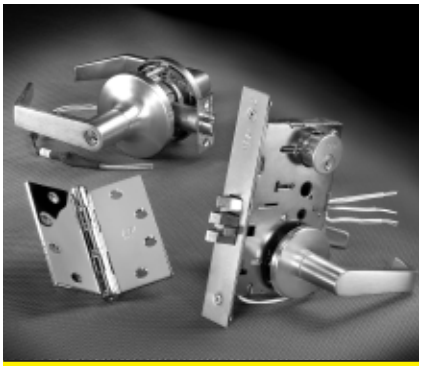
Fail Secure
Ideally suited for security doors, exterior or interior, where loss of electrical power will not cause the doors to unlock.

STANDARDS

- Conform to ANSI A156.25 (Grade 1)
- UL-cUL Fire Label for all door functions up to 3 hours
- Comply to UBC7-2 (1997)
- Manufactured in an ISO 9001 facility

WARRANTY

Electrified Locks: 1-year



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TECHNICAL ASSISTANCE

Yale Commercial Locks and Hardware is committed to excellent service. One of the benefits of working with Yale is our Electrified Technical Product Support department. We can help with:

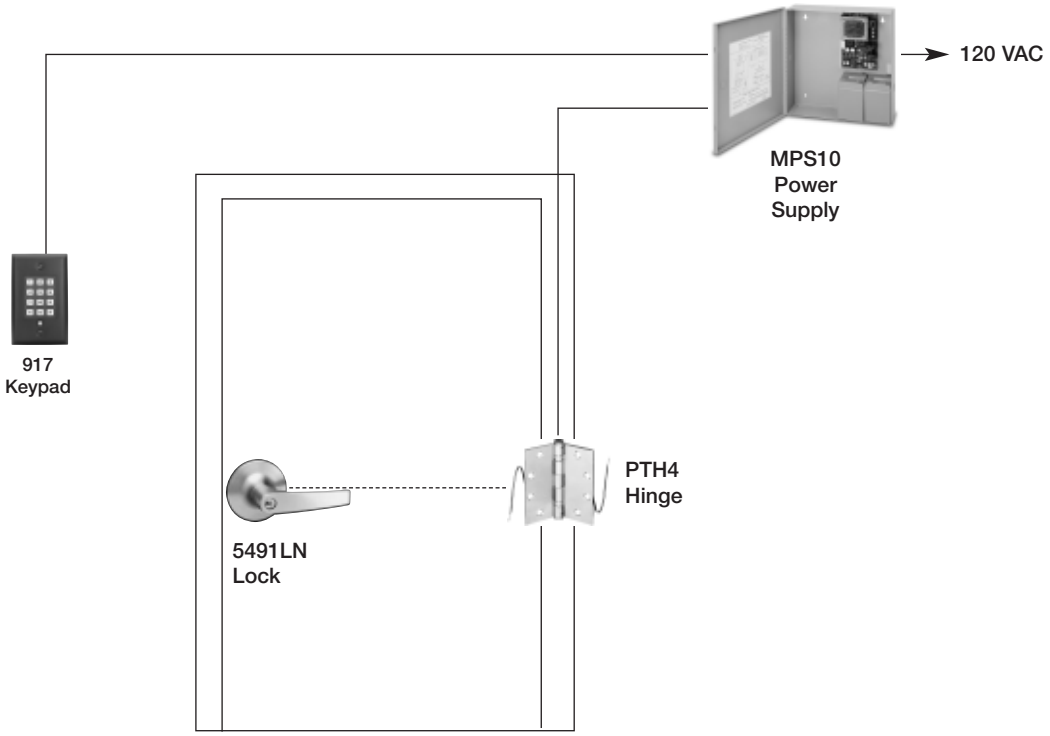
- Electric hardware specifications
- Elevation, riser and point-to-point diagrams
- Troubleshooting
- Field or factory training seminars
- Final inspection

Phone: (800) 438-1951
Fax: (800) 338-0965

TYPICAL APPLICATIONS

CONTROLLED ENTRY

Problem	Solution
Frequent tenant turnover	Install Digital Keypad to allow code entry with an electric lock
Inconvenience of carrying keys	No keys required using a keypad
Re-keying expense	Codes changed within seconds on the keypad at the door
Keys easily duplicated	Patented Yale® KeyMark® cylinder (for emergency) prevents unauthorized duplication



Operation
- Door is normally closed, latched and secure.
- Inside lever allows free egress at all times.
- Entering a valid code on the 917 keypad will unlock outside trim for entry.
- Trim will relock after the time delay in the keypad has elapsed.
- Mechanical key in trim retracts latchbolt for entry. Key can only be removed in locked position.
- Outside trim remains locked during loss of power.

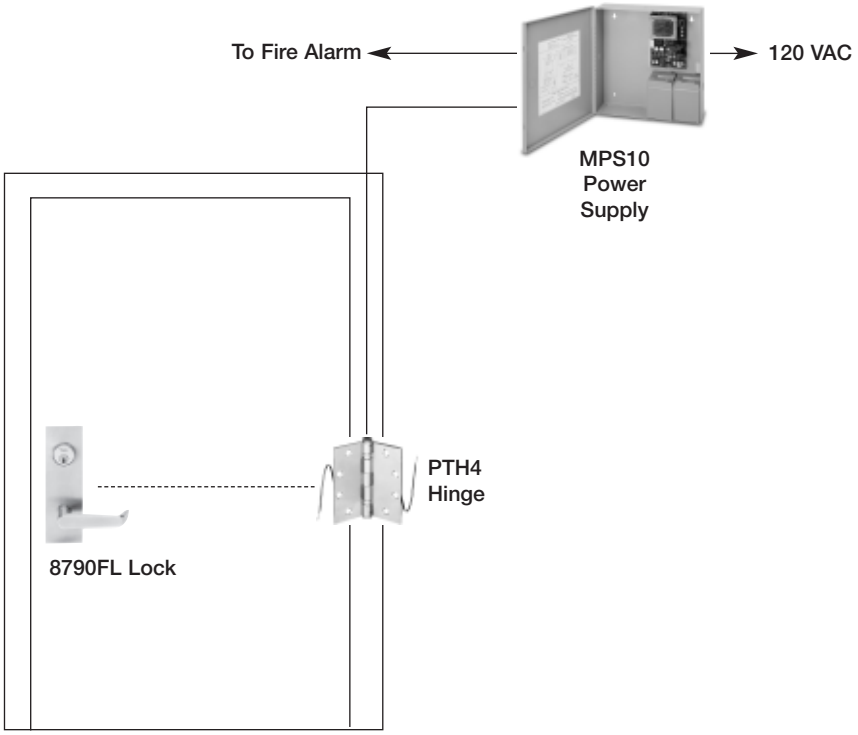
Product
1 - AU5491LN Fail Secure Electric Lock
1 - 917 Keypad
1 - MPS10 Power Supply
1 - PTH4 Electric Hinge

Consult YSG Technical Service for assistance in additional system applications.

TYPICAL APPLICATIONS

STAIRWELL RE-ENTRY

Problem	Solution
Stairwell doors remain locked during evacuation not allowing re-entry to floors	Install Fail Safe electric locks with power supply wired into fire alarm system



Operation
- Door is normally closed, latched and secure.
- Inside lever allows free egress at all times.
- Outside lever is locked preventing entry from stairwell.
- Fire alarm activation will release outside lever and allow entry from the stairwell to the floor.
- Mechanical key in trim retracts latchbolt for entry. Key can only be removed in locked position.
- Outside trim will unlock during loss of power.

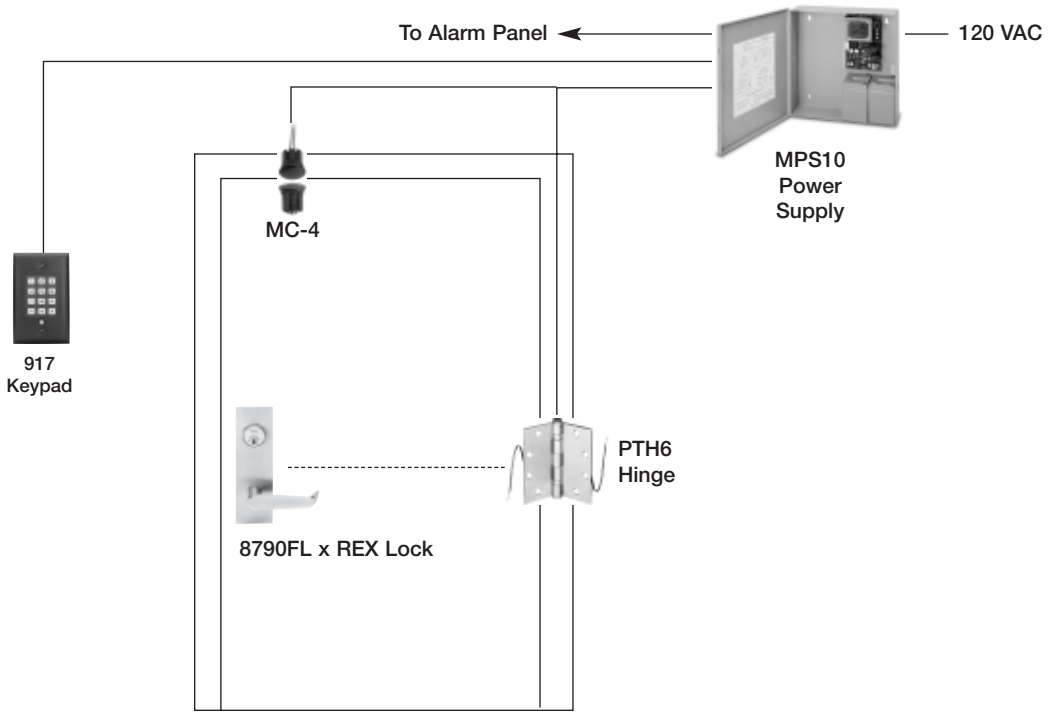
Product
1 - AUE8790FL Fail Safe Electric Lock
1 - MPS10 Power Supply
1 - PTH4 Electric Hinge

Consult YSG Technical Service for assistance in additional system applications.

TYPICAL APPLICATIONS

CONTROLLED ENTRY WITH ALARM SHUNT

Problem	Solution
Theft by forced entry	Install a Fail Secure electric lock with monitoring options
Theft by employees	Install digital keypad
Remote door location	Install door monitoring and wire complete locking system into an alarm system



Operation
- Door is normally closed, latched and secure.
- Inside lever allows free egress at all times and shunts alarm.
  Alarm will sound if door is not closed within a preset time limit (programmed by alarm panel).
- Outside lever is locked preventing entry.
- A valid card or code presented to keypad will unlock trim for entry. Alarm will sound if door is not closed within a preset time limit.
- Mechanical key in trim retracts latchbolt for entry. Key can only be removed in locked position.
- Outside trim remains locked during loss of power.

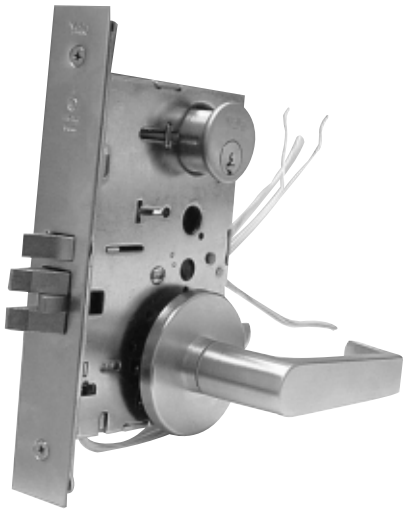
Product
1 - AUE8791FL x REX Fail Secure Electric Lock
1 - MPS10 Power Supply
1 - PTH6 Electric Hinge
1 - 917 Keypad
1 - MC-4 Door Position Switch

Consult YSG Technical Service for assistance in additional system applications.

ELECTRIFIED MORTISE LOCKSET

8790 SERIES - SPECIFICATIONS

Wrought Steel Case	Zinc dichromated for corrosion resistance
3/4" Latch Throw	Stainless steel two-piece anti-friction camming action provides strength and wear resistance
Sintered Steel Hubs	Copper infiltrated for additional strength
Fail Safe or Fail Secure	Provides versatility in meeting specific application requirements
Continuous Duty Solenoid	Allows locks to be energized continuously without doing and damage to the solenoid.
12 or 24 VAC/DC	Adapts to access control or fire alarm systems.
Knobs or Levers	Allows design continuum throughout a building by matching new or existing mechanical hardware
ANSI Conformance	ANSI A156.13, Series 1000, Operational Grade 1
UL Listed	Rated for both fire and electrical single-point locking operations on labeled openings by Underwriters Laboratories UL 38G5



OPERATION

Electric locks provide the ability to electrically lock or unlock the outside trim from a remote location. Fail Safe locks are commonly used in stair towers to release upon fire alarm activation. Fail Secure locks are used on perimeter doors or security doors to allow ingress using access control technologies (proximity cards, keypads, etc.)

ELECTRICAL SPECIFICATIONS

Fail Safe/Fail Secure
612mA @ 12 VAC/DC
330mA @ 24 VAC/DC

Monitor Functions
LBM - 4 amp @ 250 VAC
REX - 4 amp @ 250 VAC

Note:
System Requirements, see page 16-17
Power Supply - MPS Series
Power Transfer - PT Series
Controls - 400/700 Series

OPTIONS

LBM (Latchbolt Monitor)
A SPDT switch that monitors the full extension of the main latch.

REX (Request to Exit Monitor)
A SPDT switch that monitors the activation of the free lever. Used for shunting alarms, releasing electromagnetic locks, or monitoring egress.

FAIL SAFE/FAIL SECURE

FAIL SAFE

- Power on locks outside trim
- Deadlocking latchbolt
- Latchbolt by trim either side except when outside trim is locked by energizing solenoid
- Key outside retracts latchbolt when solenoid is energized
- Power off - unlocks trim
- For cylinder options see page 10

Model	Lever (Power On)	Cylinder Requirements
8790	Outside Rigid/Inside Active	1 cylinder
8780	Outside Rigid/Inside Active	None
8784*	Inside & Outside Rigid	None
8794-2	Inside & Outside Rigid	2 cylinders

Available in knobs and levers.
*Shipped less cylinder unless specified

FAIL SECURE

- Power on unlocks outside trim
- Deadlocking latchbolt
- Latchbolt by trim either side only when solenoid is energized
- Latchbolt retracted by key outside and trim inside when solenoid is not energized
- Power off - locks trim
- For cylinder options see page 10

Model	Lever (Power Off)	Cylinder Requirements
8791	Outside Rigid/Inside Active	1 cylinder
8781	Outside Rigid/Inside Active	None
8785*	Inside & Outside Rigid	None
8795-2	Inside & Outside Rigid	2 cylinders

Available in knobs and levers.
*Shipped less cylinder unless specified

8790 LEVER DESIGNS

LEVER TRIM X ROSE

Arcadia - ARR

Augusta - AUR

Carmel - CRR

Jefferson - JNR

Monroe - MOR

Pacific Beach - PBR

Pinehurst - PNR

Virginia - VIR

Mayfair Rose - MF (Opt.)

LEVER TRIM X ESCUTCHEON

Arcadia - ARE

Augusta - AUE

Carmel - CRE

Jefferson - JNE

Monroe - MOE

Pacific Beach - PBE

Pinehurst - PNE

Virginia - VIE

Lenoir Escutcheon - LN (Opt.)

8790 KNOB DESIGNS

KNOB TRIM X ROSE

Brandywine - BRR

Carolina - CAR

Copenhagen - COR

Litchfield - LFR

KNOB TRIM X ESCUTCHEON

Brandywine - BRE

Carolina - CAE

Copenhagen - COE

Easton - CE

Lenoir Escutcheon - LFE

Litchfield - LFE

MORTISE CYLINDERS

CYLINDER OPTIONS

The following selection guide indicates the correct mortise cylinder for each locking segment.

CYLINDER SELECTION GUIDE

Lock Functions: 8790/8791 8794-2/8795-2		Types of Cylinder Mechanisms			
		Conventional	**Patented KeyMark® Keyway**	**Security**	**High Security**
Cylinder Type	**Fixed Core**				
	Mortise	2153	K100	5153	U5153
	Interchangeable Core				
	Mortise - LFIC (Large Format)	2196	K820	5194	N/A
	Mortise - SFIC (Small Format)	N/A	K620	N/A	N/A
Refer to Yale® KeyMark® and/or Cylinders and Keys catalog section for all details and how to order examples.					

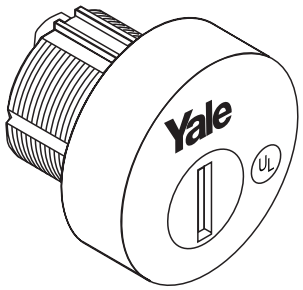
YALE® KEYMARK® PATENTED KEYWAY

For those applications requiring patented key control protection.

K100 Mortise Fixed Core (FC)

SECURITY CYLINDERS

For those applications that require a high security cylinder to meet the requirements of UL 437 for pick and drill resistance, Yale offers the U5153 mortise cylinder and the U5109 rim cylinder. These cylinders have a hardened stainless steel cylinder head and rotating plug face. They also incorporate all the features listed for the standard security cylinders.



Note: *Yale KeyMark* **is available through authorized dealers only.**

5400LN ELECTRIFIED CYLINDRICAL LOCKSET

5400LN SERIES - FEATURES

- **Free Wheeling Levers** - Extends the life of the lockset, and reduces the amount of maintenance typically required of locksets with rigid levers.
- **Stainless Steel Latchbolt** - Provides added strength and wear resistance. Direct 1/2" throw is standard.
- **3/4" Latch Throw** - Available for fire-rated pairs of doors.
- **Wear-Resistant Plates in the Chassis** - Helps extend the life of the lockbody and provides smoother lock operation.
- **Longer Pins Through the Chassis** - Provides greater stability and prevents rotation.
- **Heavy-Duty Lever Return Springs** - Prevents lever sag and provides positive return of lever to horizontal position.
- **Door Adjustable Rose Support Plates** - Allows for easy adjustment of locks to fit doors ranging in thickness from 1-3/4" (44mm) to 2-1/4" (57mm). Rose spacers available for 1-3/8" (35mm) thick doors.
- **Three Non-Handed Lever Options** - (Augusta, Monroe and Pacific Beach) complys with ADA requirements for easy gripping and operation.
- **Cylinder and Keying Options** - Refer to page 13.
- **Continuous Duty Solenoid**
- **Available in 12 or 24VAC/VDC**
- **UL Listed for Rated Openings**

OPERATION

Electric locks provide the ability to electrically lock or unlock the outside trim from a remote location. Fail Safe locks are commonly used in stair towers to release upon fire alarm activation. Fail Secure locks are used on perimeter doors or security doors to allow ingress using access control technologies (proximity cards, keypads, etc.)

ELECTRICAL SPECIFICATIONS

150 mA @ 24VAC/VDC
300 mA @ 12VAC/VDC
Continuous duty solenoid

System Requirements (see page 16-17 for details):
Power Supply - MPS
Power Transfer - PT
Controls - 400/700 pushbuttons and keyswitches

FAIL SAFE

- Power on locks outside lever
- Inside lever always free
- Latchbolt retracted by key when locked electrically
- Free Wheeling lever when locked electrically

FAIL SECURE

- Power on unlocks outside lever
- Inside lever always free
- Latchbolt retracted by key when power is off
- Free Wheeling lever when power is off (locked)

5490LN LEVER DESIGNS

LEVER TRIM X ROSE

Augusta - AU

August - AU**

Monroe - MO

Monroe - MO**

Pacific Beach - PB

Pacific Beach - PB**

**Interchangeable Core. See page 13 for interchangeable core cylinder order options.

5490LN CYLINDERS

CYLINDER OPTIONS

The following slection guide indicates the correct key-in-lever cylinder for each locking segment.

CYLINDER SELECTION GUIDE

Lock Functions: 5490LN/5491LN		Types of Cylinder Mechanisms			
		Conventional	**Patented Keyway**	**Security**	**High Security**
Cylinder Type	**Fixed Core**				
	Key-In-Lever	1802	K402	5802	N/A
	Interchangeable Core				
	Mortise - LFIC (Large Format)	1210	K800	5210	N/A
	Mortise - SFIC (Small Format)	N/A	K600	N/A	N/A
Refer to Yale® KeyMark® and/or Cylinders and Keys catalog section for all details and how to order examples.					

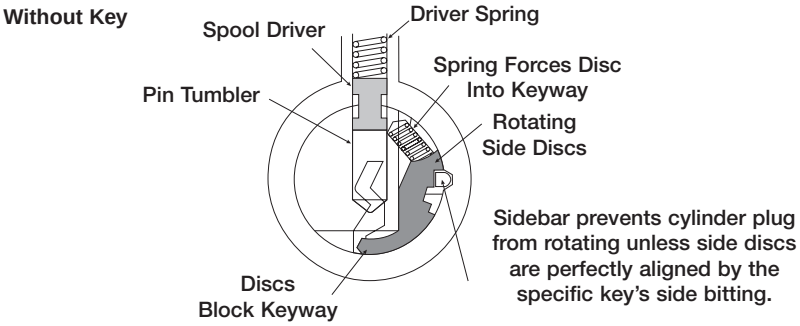
PATENTED KEYWAY

For those applications requiring patented key control protection.

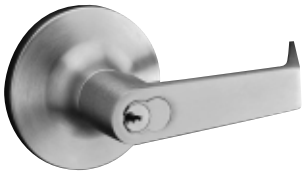
Heavy-duty Cylindrical Lock AU5490LN with K800 Core

SECURITY CYLINDERS

Yale's security cylinders contain two independent locking mechanisms.



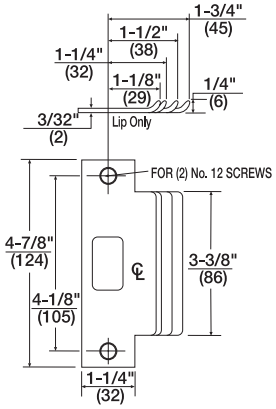
LEVERS ACCEPTING COMPETITORS' INTERCHANGEABLE CORE CYLINDERS

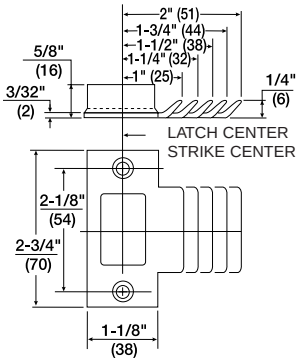


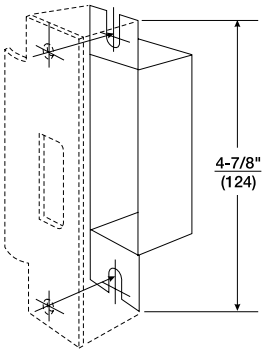
Interchangeable Core System	Prefix	Ordering Example
Best®	B (i.e. B-AU, B-PB, B-MO)	B-AU5490LN x US26D
Schlage®	SI (i.e. SI-AU, SI-PB)	SI-AU5490LN x US26D
Corbin Russwin	R (i.e. R-AU, R-PB)	R-AU5490LN x US26D

5490LN STRIKES

Yale® 5400LN electric locksets are supplied standard with a 497 ANSI strike. A variety of optional strikes are also available. All strikes are located on the same vertical and horizontal center lines as the latchbolt. Some strikes are available in a variety of lip lengths to accommodate varying thickness of doors and frames. To determine the proper length of the lip, measure from the center line of the door to the edge of the jamb and add 1/4" (6mm). All strikes are reversible.





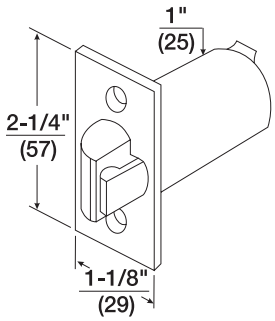


List No. 497 ANSI Strike
1-1/4" (32mm) supplied standard with 5400LN. 1-1/8" (29mm), 1-1/2" (38mm), and 1-3/4" (44mm) lip lengths available by special order. For door and frames with ANSI A115.2 preparations.

List No. 495 Strike
1-1/4" (32mm) curved lip, wrought box supplied. 1" (25mm), 1-1/2" (38mm), 1-3/4" (44mm) and 2" (51mm) curved lip lengths available by special order.

List No. 202 Strike Box
Available to special order. Specify 497 x 202.

DEADLOCKING LATCHBOLTS



List No.	Front	Backset	Throw	Front Width	Latch Diameter
F694	Flat	2-3/4" (70mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)
F480B	Flat	2-3/4" (70mm)	3/4" (19mm)	1-1/8" (29mm)	1" (25mm)
694	Beveled	2-3/4" (70mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)
480B	Beveled	2-3/4" (70mm)	3/4" (19mm)	1-1/8" (29mm)	1" (25mm)
3694	Beveled	3-3/4"(95mm)	1/2" (13mm)	1-1/8" (29mm)	1" (25mm)
3480B	Beveled	3-3/4" (95mm)	3/4" (19mm)	1-1/8" (29mm)	1" (25mm)

Note: To order with lockset specify part number. To order separate specify part number and finish.

ATTACHING SCREWS

For List No. 495
#8-8-32 x 3/4" (19mm) Phillips flat head combination wood and machine screws.
P/N 81-2012-0416 x Finish

For List Nos. 497 and 497B Plate
#12-12-24 x 1" Phillips flat head combination wood and machine screws.
P/N 81-2012-0620 x Finish

NOTE: When ordering strike or attaching screws individually, specify the finish required; i.e. 497 x 202 x 606.

ARCHITECTURAL SPECIFICATIONS

MORTISE LOCKS

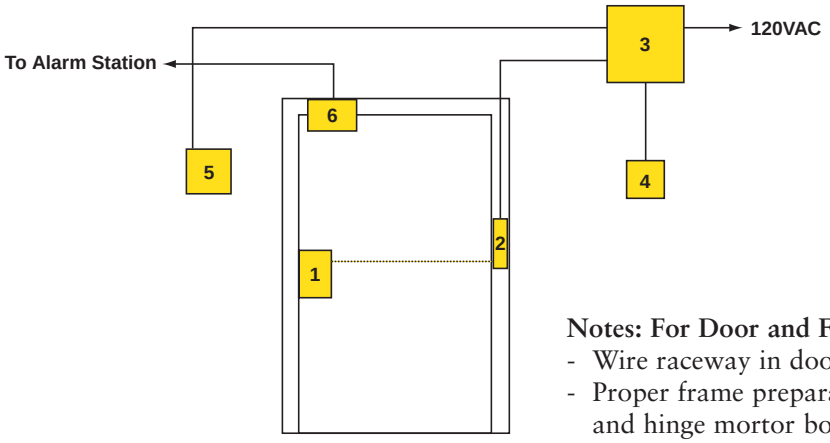
- Locksets shall be 8790 series electrically controlled locksets manufactured by Yale Commercial Locks and Hardware.
- Functions available should be in one case, manufactured from heavy gauge steel, completely Zinc dichromated plated for corrosion resistance. Cases should be closed on all sides to protect internal parts. Locks shall have a 2-3/4" backset and a full 3/4", throw stainless steel two piece mechanical anti-friction latchbolt, and shall be available for a minimum door thickness of 1-3/4". All locks shall have a stainless steel auxiliary latchbolt for deadlocking.
- The locking solenoid shall be continuous-duty and self-contained in the mortise lockcase, allowing the lockset to be installed in a standard mortise door preparation with a slight modification to provide clearance for wires by door manufacturer.
- The 8790 series shall be available 12 or 24 volt AC and DC (rectifier to be included) and Fail Safe or Fail Secure. The optional Request to Exit switch shall be a SPDT (single pole double throw) switch self-contained in the mortise lockcase that is activated when the inside or outside trim is moved. The optional latchbolt monitoring switch shall be a SPDT (single pole double throw) switch self-contained in the mortise lockcase that is activated when the main latchbolt is retracted or tampered with.
- Locksets with latchbolts regardless of trim shall be Underwriters Laboratories listed for A label doors, 4' x 8' single or 8' x 8' pair. Also available for B label doors, 4' x 9' single.
- Mechanical cylinder override shall be available. Optional cylinders shall include interchangeable core, security and blockout types.
- Sectional lock trim (knob/lever) shall be through-bolted through the lock case to ensure positive alignment. Escutcheon trim (knob/lever) is held in position by threaded posts which fit through the door and are through-bolted through the inside trim.
- Locks shall meet requirements of ANSI A156.13 Series 1000, Grade 1, ANSI A117.1 Accessibility Code (lever trim) and UL1034.
- Locks, trim and cylinders shall be from one manufacturer. Mechanical locks electrically modified by second party are not acceptable.
- Locksets shall carry a one year-limited warranty.

CYLINDRICAL LOCKS

- Locksets shall be 5490LN series Grade I Key in Lever electric cylindrical locksets as Manufactured by Yale Commercial Locks and Hardware.
- Lockset chassis shall be constructed of heavy-gauge cold-rolled zinc dichromated plated to protect against rust and corrosion. Locksets shall be adjustable to fit doors between 1-3/4" to 2-1/4" thick.
- The 5490LN series shall be available 12 or 24 volt AC and DC (rectifier to be included) and Fail Safe or Fail Secure.
- The locking solenoid shall be continuous-duty and self-contained in the cylindrical lock chassis, allowing the lockset to be installed in a standard cylindrical door preparation with a slight modification to provide clearance for wires by door manufacturer.
- Locksets shall be non-handed and shall install easily without the need for specialized installation tools. Locksets shall have separate anti-rotation through-bolts in the 6 o'clock and 12 o'clock position outside the 2-1/8" face bore, and shall have no exposed mounting screws.
- Locksets shall have solid one-piece cast levers without plastic inserts, and shall be a minimum of 5-1/4" in length. Levers shall operate independently, and shall have inside and outside lever return springs. Outside levers on the keyed locksets shall be removable only when the designed key is in the cylinder.
- Locksets shall have the capability of accepting 7-pin standard, interchangeable core and high security cylinders to provide expansion capacity for large master keyed systems.
- Vandal resistant levers shall be offered as a standard feature in all locking functions, and shall be Free Wheeling in the locked condition. Locksets that are rigid in the locked condition, or which must require resetting (breakaway) are not acceptable.
- The latchbolt shall be made of stainless steel.
- Locksets shall carry a comprehensive five-year mechanical warranty with a one-year electrical warranty. Locksets shall carry a lifetime warranty against lever sag or lever spring breakage.
- Locksets shall comply with ANSI A156.2 Series 4000 Grade 1, ANSI A117.1 Accessibility Code, ANSI A1 15.1B Preparation and UL 3 Hour Fire Rating and UL1034.

SYSTEM REQUIREMENTS

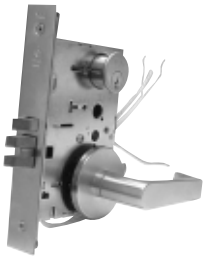
See How to Order page for details



Notes: For Door and Frame
- Wire raceway in door is required
- Proper frame preparation for conduit and hinge mortor box as required

1 - ELECTRIC LOCKS

Provide the ability to electrically unlock or lock the outside trim from a remote location. Used for security, safety and convenience.



Mortise Lock	Cylindrical Lock
8780/8781	5490LN/5491LN
8784/8785	
8790/8791	
8794-2/8795-2	

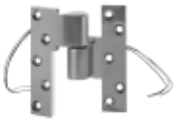
2 - POWER TRANSFER

Used to transfer power from the frame to the door.

	Total Conductor Required	Hinge	Hinge	Pivot
Mortise Lock		**Folger Adam®**	**McKinney®**	**Rixson®**
Fail Safe/Fail Secure	4-Wire	PTH-4	CC-4	EM-19
Fail Safe/Fail Secure x REX	6-Wire	PTH-6	CC-6	EM-19
Fail Safe/Fail Secure x LBM	6-Wire	PTH-6	CC-6	EM-19
Fail Safe/Fail Secure x REX x LBM	10-Wire	PTH-10		
Cylindrical		**Folger Adam®**	**McKinney®**	**Rixson®**
5490LN/5491LN	4-Wire	PTH-4	CC-4	EM-19

PTH-4

CC-4



EM-19

SYSTEM REQUIREMENTS

3 - POWER SUPPLY - FOLGER ADAM®

Provides a filtered and regulated power source for electric hardware.

Total Locks per Power Supply				
		Power Supply (Folger Adam®)		
Mortise Lock	**Current Draw**	**MPS10**	**MPS15**	**MPS40**
12VAC/VDC	612mA	1 Lock	2 Locks	6 Locks
24VAC/VDC	330 mA	3 Locks	4 Locks	12 Locks
Cylindrical Lock				
12VAC/VDC	300mA	3 Locks	4 Locks	12 Locks
24VAC/VDC	150mA	6 Locks	8 Locks	24 Locks

Notes:
- Chart reflects maximum quantities based on typical wire runs. Consult Yale® technical specialist for system layout assistance.
- Batteries are not included.

MPS10

MPS15

MPS40

4 - EXTERIOR CONTROL - FOLGER ADAM

Used to unlock or lock and monitor electric hardware for momentary or maintained periods.

917 Keypad
- 160 Users
- Keypad/Programmable SPDT Relay

Key Switch
700-6 Series

5 - INTERIOR CONTROL AND MONITORING - FOLGER ADAM®

Used to unlock or lock and monitor electric hardware for momentary or maintained periods.

Push Button
400 Series

Key Switch
700-6 Series

Monitor Stations
L400 Series

6 - DOOR POSITION SENSORS AND MONITOR STRIKES

Used to monitor the position of the door or monitor status of the latchbolt.

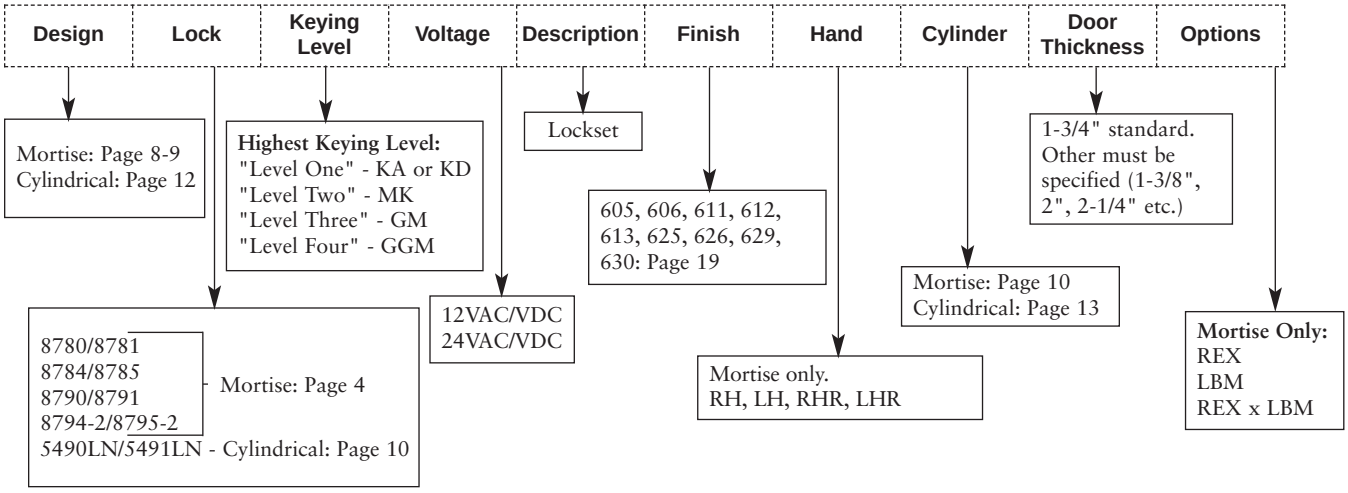
Folger Adam® MC-4

Rixson® CS-M19

McKinney® CS Hinge

HOW TO ORDER

1 - ELECTRIC LOCKS



2 - POWER TRANSFER

Hinges - Folger Adam®	Finishes
4-1/2 x 4-1/2	
PTH-4 (4 wire)	P, AP, 605, 606, 612, 613, 625, 626
PTH-6 (6 wire)	
PTH-10 (10 wire)	
Hinges - McKinney®	
CC-4	605, 606, 612, 613, 625, 626
CC-6	
Pivots - Rixson®	
EM-19 (2, 4 or 6 wire)	605, 606, 611, 612, 613, 625, 626
EFM-19 Fire-Rated (2 or 4 wire)	

3 - POWER SUPPLY - FOLGER ADAM®

MPS10 . . . . . 1 amp
MPS15 . . . . . 1.5 amps
MPS15A . . . . . 1.5 amps
MPS40 . . . . . 4 amps

Options

- **RB12V4:** Rechargeable battery for battery backup (2 required for 24V)
- **CR4:** 4 zone relay board (4 trigger inputs and 4 outputs)
- **UR-2A:** Universal 2 zone relay board with time delays (use with MPS15A or MPS40)
- **UR-4A:** Universal 4 zone relay board with time delays (use with MPS15A or MPS40)

4 - EXTERIOR CONTROL - FOLGER ADAM®

Product	Finishes
917 Keypad (160 Users)	605, 606, 613, 625, 630

Keyswitches (Refer to Accessory Section for Details)
701-6 MA SPDT
*702-6 MO SPDT
*704D-6 MO SPDT-1-120 sec timer
705-6 AA DPDT
706-6 MO SPDT x RD & GR LEDs
*707-6 2 MO SPDT
*708-6 1 MO SPDT & 1 MA SPDT
Requires 1-1/8 or 1-1/4 mortise cylinder with clover leaf cam.
*Dual switches require standard cam.

Options
L1: Specify red or green LED
L2: Red or green LED

HOW TO ORDER

5 - INTERIOR CONTROL AND MONITORING - FOLGER ADAM®

Pushbutton	Finishes
401 MA SPDT	630, 605, 606, 611, 612, 625, 626
402 MO SPDT	
403D MO 1-30 sec adj. time delay	
405 MA DPDT	
406 2 MO SPDT	
Specify lens color: red, green, yellow, white	

Monitor Stations	Finishes
L400-L1	630, 605, 606, 611, 612, 625, 626
L400-L2	
L400-L3	
Specify lens color: red, green, yellow, white	

Sirens and buzzers
400 - RMB buzzer on 1 gang plate
400 - SN siren on 1 gang plate

Options
E: Exit engraved button
L1: Specify red or green LED
L2: Specify red or green LED
MA - Maintained
MO - Momentary

6 - DOOR POSITION SENSORS AND MONITOR STRIKES

Monitor Strike - Folger Adam®
MS14 Cylindrical latch monitor SPDT
MS14D Cylindrical latch monitor DPDT
MS-20 Mortise latch and deadlock monitor SPDT
MS-20D Mortise latch and deadlock monitor DPDT
MC-4 Concealed magnetic switch (hollow metal and aluminum doors and frames)
Door Position Sensor
CS M19 - Door Position Pivot - Rixson®
CS Hinge - McKinney®

SYSTEM ORDERING EXAMPLE

1 - AUE 8791FL x KD - 24V - Lockset 626 RHR
1 - PTH-4 4-1/2 x 4-1/2 Hinge 626
1 - 917 Keypad
1 - MS20 Monitor Strike
1 - MPS 15 Power Supply

FINISHES

BHMA Symbol	Description
605	Bright Brass, Clear Coated
606	Satin Brass, Clear Coated
611	Bright Bronze, Clear Coated
612	Satin Bronze, Clear Coated
613	Satin Bronze, Oxidized and Oil Rubbed
625	Bright Chrome Plated
626	Satin Chrome Plated
629	Bright Stainless Steel

WIRE SELECTION

Voltages	Total one-way length of wire run										
	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.	750 Ft.	1000 Ft.	1500 Ft.
Mortise Lock											
12V	16 AWG	16 AWG	14 AWG	12 AWG	12 AWG	12 AWG	10 AWG	10 AWG	–	–	–
24V	20 AWG	20 AWG	18AWG	18 AWG	16 AWG	16 AWG	14 AWG	14 AWG	12 AWG	10 AWG	10 AWG
Cylindrical											
12V	18 AWG	18 AWG	16 AWG	14 AWG	14 AWG	12 AWG	12 AWG	10 AWG	10 AWG	–	–
24V	24 AWG	24 AWG	22 AWG	20 AWG	12 AWG	18 AWG	18 AWG	16 AWG	14 AWG	14 AWG	12 AWG

Note: These are recommended minimum wire sizes for providing sufficient current and are for reference only. The contractor and/or installer should verify compliance with local codes before installation.

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Yale Commercial Locks and Hardware

Address: 1902 Airport Road, Monroe, NC 28110 USA

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Yale-Corbin Canada Ltd.

Address: 6940 Edwards Boulevard, Mississauga, Ontario, Canada L5T 2W2

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