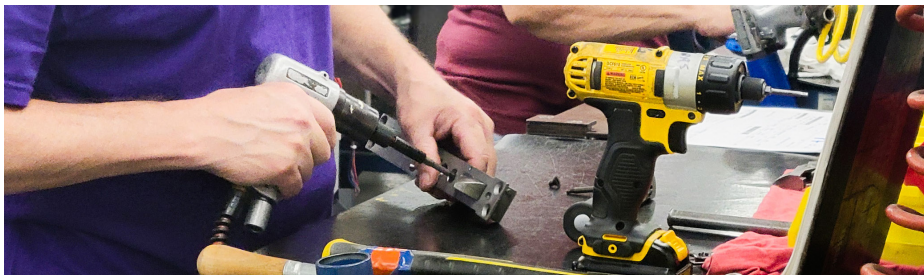
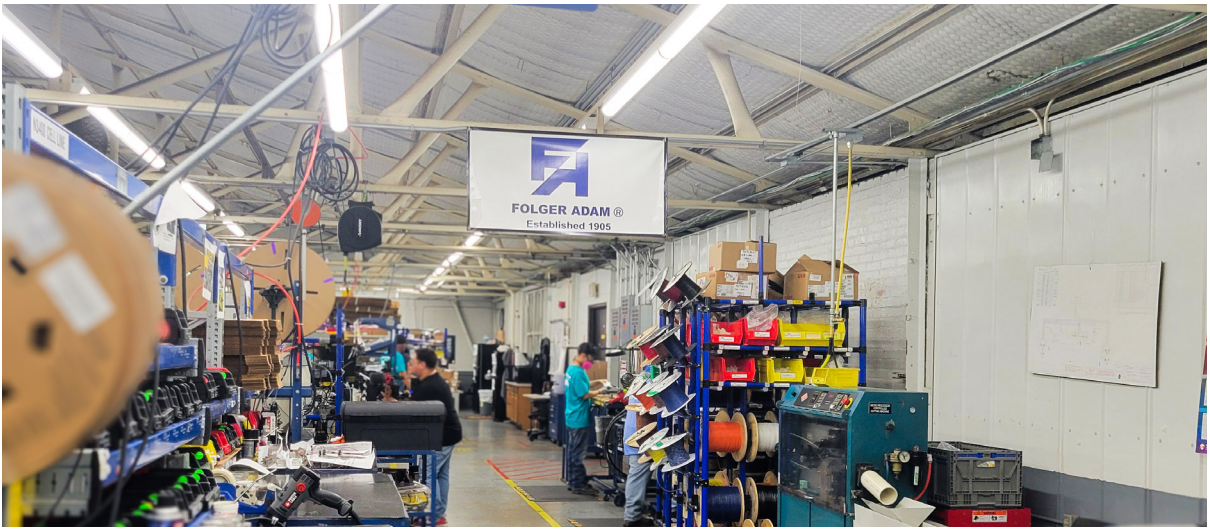
FOLGER ADAM
Established 1905

Folger Adam





Product Catalog

Southern Folger
Detention Equipment Company Founded 1897
A COASTAL DETENTION HOLDINGS LLC COMPANY

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www.SouthernFolger.com

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FOLGER ADAM
Established 1905

Folger Adam

Electric Locks

Electric Locks
51E Deadlatch

Standard Features

- Solid steel latchbolt – Latchbolt is zinc plated steel; concealed pins resist sawing.
- Deadlock actuator – Roller type, zinc plated steel, adjustable for variations in door-to-jamb clearance.
- Finish – Zinc plated.

Optional Features

- Solenoid voltage – 220VAC
- No-notch feature – The holdback lever has no notch to hold the latchbolt mechanically retracted. The latchbolt extends in the locked
- position regardless of the position of the door.
- Interlocking – Accomplished through the control console.

52E Five tumbler model, keyed cover side
52E-6 Six tumbler model, keyed cover side
56E Five tumbler model, keyed both sides
56E-6 Six tumbler model, keyed both sides

Applications

51E Deadlatches are designed for door jamb installation and provide maximum security for heavily used cell, corridor or entrance doors. They provide the convenience of slam-locking with remote, electrical unlocking.

Operations

Standard (1): When connected to a momentary-contact switch, the latchbolt retracts when the solenoid is energized. Once retracted, the latchbolt is held mechanically retracted until the door is opened. The latchbolt extends when the door is open. Standard (1a): When connected to a maintained- contact switch, the latchbolt retracts when the solenoid is energized. Once retracted, it is held electrically retracted for an extended period of time. The latchbolt extends only when the solenoid is de-energized. No-notch (2): Latchbolt extends when the switch is selected to lock.

Standard Features

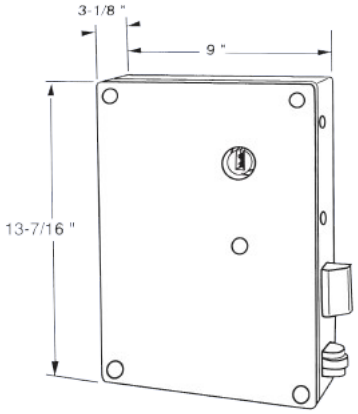
- Solenoid voltage – 120VAC
- Two piece plug connector – Simplifies wiring.
- Instant solenoid operation – Dependable, continuous-duty solenoid.
- Automatic deadlocking – When the latchbolt is extended, it automatically deadlocks on closure.
- Full 3/4” bolt throw – Projects 1/4” when retracted.
- Mechanical unlocking by key – For use during power failure, or any time the lock unlocks by use of prison paracentric key. Latchbolt remains retracted until relocked by key.
- Indication switch – A lock status indication switch which monitors the extension of the latch bolt and the deadlocked condition is included.
- Rugged construction – Case and cover are 7 gauge steel.
- Tumbler Options – Choice of five or six tumbler models. Six tumbler model offers greater pick resistance.

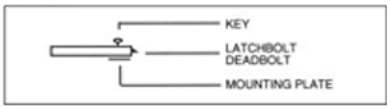
Electric Locks
51E Deadlatch

How to Specify

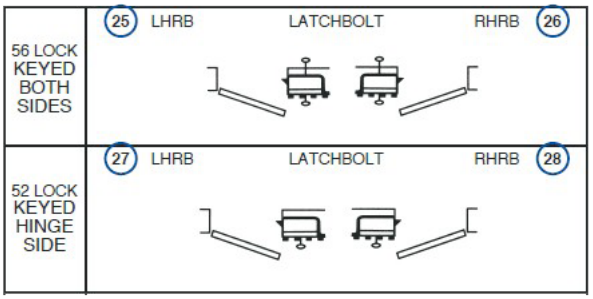
Operation	Keying	With ind. Switch
Standard (1)	One Side	52EL
	Two Side	56EL
No-notch (2)	One Side	52ELNN
	Two Side	56ELNN

NOTE: These are standard 5-tumbler models. To specify 6-tumbler units, add –6 after the basic model number.
Example: 56E-6-L.





POCKET COVER HINGE SIDE



Electrical Characteristics

- Solenoid – Continuous-duty type.
- Ratings – 120VAC, 60HZ, 13 amps inrush, .75 amps seated
- 220VAC, 60Hz, 6.5 amps inrush, .38 amps seated.
- Indication switch – SPDT, UL Listed.
- Rating – 15 amps at 125 or 250 VAC

Specifications

Case and Cover	7 gauge steel.
Latchbolt	Solid steel with hardened steel roller pins.
Deadlock Actuator	Zinc plated steel, roller type.
Lever Tumblers	spring temper brass, activated by heavy phosphor bronze springs.
Key Cylinder	One piece, bronze alloy with paracentric keyway.
Bolt Size	2” x 3/4”
Bolt Throw	3/4”

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Electric Locks
51M Deadlatch

Optional Features

- Continuous-duty function – Using a two-position, maintained contact switch, and a two-position cam on the motor, the latchbolt may be held retracted for extended periods. The latchbolt extends only when the door is open and the motor is energized a second time. The latchbolt deadlocks when extended and the door is closed.
- No-notch feature – The holdback lever has no notch to hold the latchbolt mechanically retracted. This feature may be used with Continuous Duty feature, and operates in the same manner as above, except that the latchbolt extends when the motor is energized a second time regardless of the position of the door.
- Interlocking – Accomplished through the control console
- Motor voltage – 24VDC

52M Five tumbler model, keyed cover side
52M-6 Six tumbler model, keyed cover side
56M Five tumbler model, keyed both sides
56M-6 Six tumbler model, keyed both sides

Applications

Series 51M Deadlatches are lever tumbler, motor operated locks for swinging doors. These jamb-mounted locks provide maximum security for cell, corridor or entryway doors. They slam lock on closure and provide staff with the safety and convenience of remote, electric unlocking. Quiet motor operation is well suited to residence areas.

Operations

When used in conjunction with a momentary contact switch, the unit unlocks when energized. The latchbolt retracts, and once retracted, it is held mechanically retracted until the door is opened. The latchbolt extends when the door is open.

Standard Features

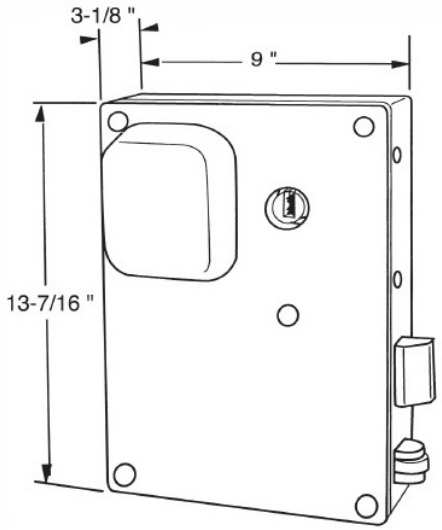
- Motor voltage – 120VAC
- Two piece plug connector – Simplifies wiring.
- Quiet operation – Unlocks by smooth motor action.
- Automatic deadlocking – All models automatically deadlock on closure.
- Rugged construction – 7 gauge steel for durability.
- Indication switch – A lock status indication switch which monitors the extension of the latch bolt and the dead locked condition is included.
- High security – Five or six tumbler models available. Six tumbler model offers greater pick resistance.
- Mechanical unlocking by key – In the event of power failure, or at any time, 51M Series deadlatches may be unlocked by prison paracentric key; latchbolt remains retracted until relocked by key.
- Solid steel latchbolt – Zinc plated, with two hardened steel pins to resist sawing.
- Deadlock actuator – Roller type, zinc plated steel, adjustable for variations in door-to-jamb clearance.
- Full 3/4” bolt throw – Projects 1/4” when retracted.
- Finish – Zinc plated.

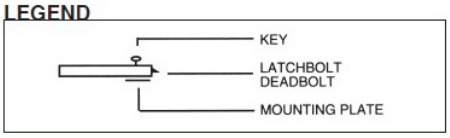
Electric Locks
51M Deadlatch

How to Specify

Operation	Keying	With ind. Switch	With ind. & Int Switch
Standard	One Side	52ML	52MLI
	Two Sides	56ML	56MLI
Continuous Duty	One Side	52MCL	N/A
	Two Sides	56MCL	N/A
With No-notch	One Side	52MCLNN	N/A
	Two sides	56MCLNN	N/A

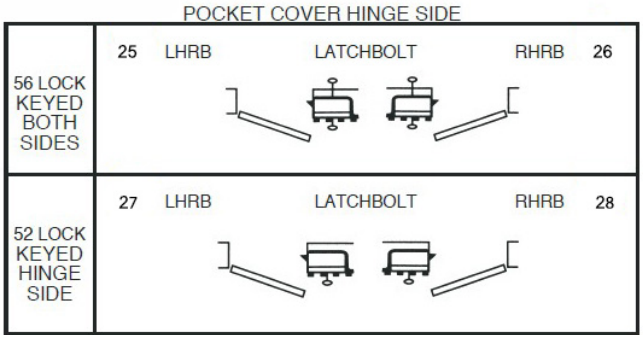
NOTE: The above are standard 5-tumbler models. To specify 6-tumbler units, add -6 after the basic model number. Example: 52M-6-L





Electrical Characteristics

- Motor (AC) – Synchronous-type with brake.
- Ratings (120VAC) – 60HZ, 1.3 amps full load.
- Ratings (220VAC) – 60HZ, .65 amps full load.
- Motor (DC) – Permanent magnet gearmotor.
- Ratings – 24VDC, 2.2 amps at full load.
- Indication switch – SPDT, UL Listed, 15 amps at 125VAC or 250VAC.



Specifications

Case and Cover	7 gauge steel.
Latchbolt	Solid steel with hardened steel roller pins.
Deadlock Actuator	Zinc plated steel, roller type.
Lever Tumblers	spring temper brass, activated by heavy phosphor bronze springs.
Key Cylinder	One piece, bronze alloy with paracentric keyway.
Bolt Size	2” x 3/4”
Bolt Throw	3/4”

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Electric Locks
50HBM Deadlatch

Standard Features

- Motor operation – A choice of two operations is available, as shown on following page.
- High security – Choice of five or six lever tumbler models. Six tumbler model offers greater pick resistance.
- Mechanical unlocking by key – Once unlocked by key, the hookbolt remains in that position until relocked by key (Models without latchback feature). Key is removable in the unlocked position.
- Indication switch – The indication switch monitors the deadlock lever to indicate a deadlocked hookbolt.
- Finish – Zinc plated.

Optional Features

- Motor voltage – 24VDC
- Lock bolt keepers – Select 50H-4DB with dust box.

51 Keyed case side
52 Keyed cover side
56 Keyed both sides

Applications

Jamb-mounted 50HBM locks should be specified for maximum security cell, corridor, sallyport, or entrance/egress sliding doors. May be installed within a lock pocket or full height column. They are designed to be part of an electrical locking/unlocking system to provide institutional staff with maximum safety and flexibility of operation.

Operations

All 50HBM locks are operated by electric motor. The choice of two motor operations provides a variety of functions:
Full-Rotation Motor (50HBM) with latchback (1):
Unlocks when the motor is energized by a momentary contact switch. Once unlocked, the hookbolt is held mechanically in the raised position until the door is opened. It then returns to normal, lowered position.

Two-Position Motor (50HBMC) without latchback (2):
Same as above, except that the hookbolt is raised and lowered as the motor runs. A door starter should be installed in the track housing to push the door open when the motor reaches the unlocking point.

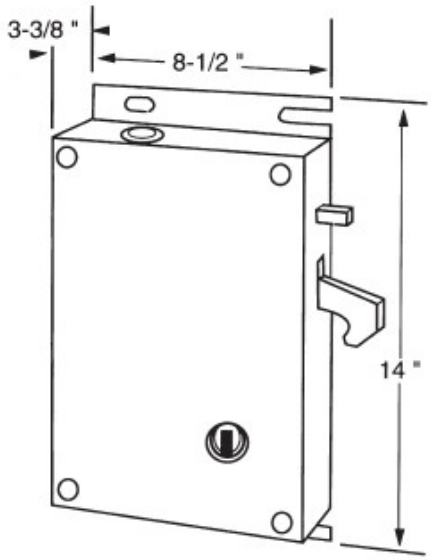
Standard Features

- Motor voltage – 120VAC
- External mounting – Locks install without cover plate removal. External slotted mounting holes simplify installation and allow for variations in
- door gap by permitting lateral movement.
- Two-piece plug connector – Simplifies wiring at time of installation and allows pre-wiring at the lock pocket.
- Superior durability – Working parts are stainless steel and designed for maximum strength and corrosion resistance.
- Hardened hookbolt and deadlock actuator – Zinc plated for corrosion resistance.

Electric Locks
50HBM Deadlatch

Feature/Option Chart

Model	Operation	Latchback		Operational Switch Holdback	Indication Switch
		With	W/O		
50HBM-1-01	1	X			X
50HBMC-1-04	2		X		X



Electrical Characteristics

- Motor (AC) – Synchronous-type gearmotor with brake.
- Motor (DC) – Permanent magnet gearmotor.
- Indication switch – SPDT,
  UL Listed. Deadlock Ratings: 15 amps at 125 or 250 VAC.
  Auxiliary Ratings: 10 amps 125 or 250 VAC.

Specifications

Case	7 and 10 gauge steel.
Cover	10 gauge HRS
Hookbolt	.5 inch steel, case hardened and zinc plated.
Deadlock actuator	.5 inch square CRS, hardened and zinc plated.
Deadlock and operator levers	Stainless Steel
Springs	Stainless Steel
Motor	Synchronous-type gearmotor with brake.

Note: Dimensions are for information and planning purposes only and should not be used as templates.

Electric Locks
120E Deadlatch

Applications

Series 120E Deadlatches are suited for medium or maximum security application including cell doors, sallyport or egress doors, corridor or entrance doors. Sensitive administration areas of an institution may also warrant 120 Series locks. These jamb-mounted locks are designed to be part of an electrical system with remote operation and monitoring to provide supervisory personnel with optimum protection and flexibility.

Operation

Standard (1): Series 120E locks unlock when the solenoid is energized by a momentary-contact switch. Once unlocked, the latchbolt is held mechanically retracted until the door is opened. It then extends automatically. Without latchback (1a) 04 one switch; 05 two switches: Once unlocked, the latchbolt is held retracted as long as the solenoid is energized. A maintained contact switch may be used to keep the latchbolt retracted for an extended period of time.

Optional Features

- Indication/auxiliary switches – An indication switch monitors the deadlock lever indicating a deadlocked latchbolt. The auxiliary switch monitors the roller bolt for extended or retracted position.
- Local electric key (LEK) – A unique function which uses two types of keys for applications where inmates carry their own keys, but supervision is necessary. One key turns in one direction only and operates the lock electrically. The supervisory key turns in both directions to operate the lock electrically and mechanically. The electric operation may be canceled from a central console or control point at any time via a three-position switch.

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Standard Features

- Solenoid voltage – 120 VAC
- Superior durability – Working parts of stainless steel afford greater strength and corrosion-resistance.
- Standard lock size – All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- External two-piece plug connector – All models install without cover removal. Simple plug-in connection to field wiring.
- External mounting holes – Easy installation eliminates the need for cover removal.
- Standard lock – Mounts behind frame and does not require a faceplate.
- 1” throw latchbolt – Offers greater security. Each bolt is hardened to resist sawing. When latchbolt is engaged in strike, bevel is concealed to prevent picking.
- Mechanical unlocking by key – Specify Folger Adam Mogul cylinders, Maxi-Mogul® high security cylinders or other mogul cylinders.
- Investment-cast stainless steel strike – Furnished with four tamper resistant screws.
- Continuous-duty solenoid – For instant action.
- Finish – Zinc plated case and cover.

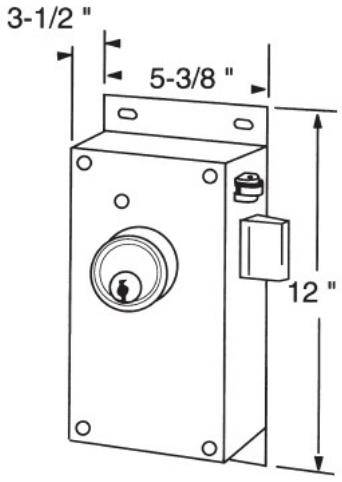
Electric Locks
120E Deadlatch

Optional Features

- The Maxi-Mogul® Key Cylinder is uniquely suited for this high frequency operation, shown by cycle test of 1,000,000 operations. LEK not available on any 120E-3 Series Locks.
- Key Cylinder Extension – When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for 3", E-4 for 4" or E-5 for 5".
- Optional solenoid voltage – 230 VAC, 60Hz.
- Faceplate – US32D finish.

Model No.	Operation	Latchback		Operational Switches			Indication Switches		LEK Available
		With	W/O	Holdback	Relock	INT	Deadlatch	Aux	
120E-1-01	Standard (1)	X					X		YES
120E-1-04	Standard (1a)		X				X		YES
120E-1-07	Standard (1b)		X	X			X		YES
120E-2-01	Knob Release (2)	X					X		YES
120E-2-04	Knob Release (2a)		X				X		YES
120E-2-07	Knob Release (2b)		X	X			X		YES
120E-3-01	Key Holdback (3)	X					X		YES
120E-3-04	Key Holdback (3a)		X				X		YES
120E-3-07	Key Holdback (3b)		X	X			X		YES

The chart above shows applicability of above options to all 120E Models. For complete details, see How to Specify in this section.



Electrical Characteristics

- Solenoid voltages (120 VAC) –
- 13 amps inrush - .75 amps seated.
- Solenoid voltages (230 VAC) 6.6 amps inrush - .38 amps seated.
- Switches – SPDT, UL Listed, 15 amps @ 125 or 250 VAC.

Specifications

Case and Cover	10 gauge steel.
Latchbolt	Investment-cast stainless steel hardened, 1" throw.
Deadlock lever	Stainless steel, adjustable for door gap variations.
Bolt Opening	Investment-cast stainless steel with stainless steel roller
Opening Lever	One piece, bronze alloy with paracentric keyway.
Strike	Investment-cast stainless steel, attached with screws in two directions.
Solenoid	120 VAC continuous duty with stainless steel guides; 230VAC optional.
Springs	Stainless Steel

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Electric Locks
120M Deadlatch

Standard Features

- External mounting holes – Easy installation eliminates the need for cover removal.
- Standard lock – Mounts behind frame and does not require a faceplate.
- 1” throw latchbolt – Offers greater security. Each bolt is hardened to resist sawing. When latchbolt is engaged in strike, bevel is concealed to prevent picking.
- Mechanical unlocking by key – Specify Folger Adam Mogul cylinders, Maxi-Mogul® high security cylinders or other Mogul cylinders.

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Applications

Series 120E Deadlatches are suited for medium or maximum security application including cell doors, sallyport or egress doors, corridor or entrance doors. Sensitive administration areas of an institution may also warrant 120 Series locks. These jamb-mounted locks are designed to be part of an electrical system with remote operation and monitoring to provide supervisory personnel with optimum protection and flexibility.

Operations

Standard (1): Series 120M locks unlock when the motor is energized by a momentary-contact switch. Once unlocked, the latchbolt is held mechanically retracted until the door is opened. It then extends automatically.

Knob release(2): 120M Deadlatches may be specified with knob release on one side, where the knob is always
active. Knob may be mounted on the case side, or the cover side.

Key holdback (3): When unlocked by key, the deadlatch remains retracted until relocked by turning the key in the opposite direction. Available one side only. This function is not UL Listed for Fire Door Accessories to a three-hour rating.

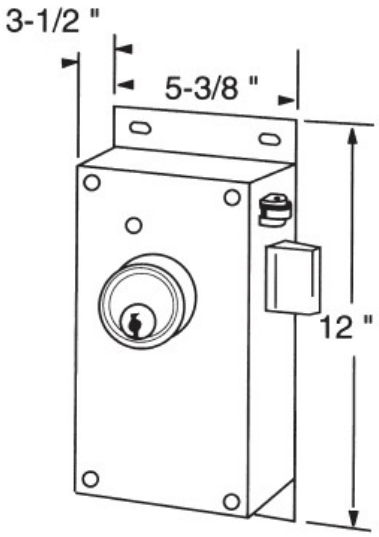
Note: Key cylinders for locks with key holdback feature must be installed at the factory.

Standard Features

- Motor voltage – 120 VAC
- Superior durability – Working parts of stainless steel afford greater strength and corrosion resistance.
- Standard lock size – All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- External two-piece plug connector – All models install without cover removal. Simple plug-in connection to field wiring.

Electric Locks
120M Deadlatch

Optional Features



- Faceplate – US32D finish.
- Optional motor voltage – 24 VAC or 24 VDC.E-4 for 4” or E-5 for 5”.
- Local electric key (LEK) – A unique function which uses two types of keys for applications where inmates carry their own keys, but supervision is necessary. One key turns in one direction only and operates the lock electrically. The supervisory key turns in both directions to operate the lock electrically and mechanically. The electric operation may be canceled from a central console or control point at any time via a three-position switch.
- The Maxi-Mogul® Key Cylinder is uniquely suited for this high frequency operation, shown by cycle test of 1,000,000 operations. LEK not available on any 120M-3 Series Locks.
- Key Cylinder Extension – When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for 3”, E-4 for 4” or E-5 for 5”.
- Indication/auxiliary switches – An indication switch monitors the deadlock lever indicating a deadlocked latchbolt. The auxiliary switch monitors the latchbolt for extended or retracted position.

Electrical Characteristics

- AC motors – Synchronous-type gearmotor with brake. Ratings: 120 VAC: 60 Hz, 1.3 amps at full load.
- DC motors – Permanent-magnet gearmotor. Ratings: 24 VDC, 2.2 amps at full load.
- Switch – SPDT, UL Listed, 15 amps @ 125 or 250 VAC.

Feature/Option Chart

Model	Operation	Latch-back	Indication Switches	LEK Avail-able
			Deadlatch	
120M-1-01	Standard (1)	X	X	Yes
120M-2-01	Knob Release (2)	X	X	Yes
120M-3-01	Key Holdback (3)	X	X	No

Specifications

Case and Cover	10 gauge steel.
Latchbolt	Investment-cast stainless steel, hardened. 1” throw.
Deadlock Lever	Stainless steel, adjustable for door gap variations.
Bolt Opener	Does not allow access to mechanism.
Roller Bolt	Investment-cast stainless steel with stainless steel roller.
Operating lever	Stainless steel to operate with solenoid.
Strike	Investment-cast stainless steel, attached with screws in two directions.
Motor	120 VAC continuous duty, 24 VAC/ 24 VDC optional, synchronous-type gearmotor.
Springs	Stainless steel.

Note: Dimensions are for information and planning purposes only and should not be used as templates.

Electric Locks
120MC Half-Cycle Deadlatch

Standard Features

- Motor voltage – 120 VAC
- Superior durability – Working parts of stainless steel afford greater strength and corrosion resistance.
- Standard lock size – All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- External two-piece plug connector – All models install without cover removal. Simple plug-in connection to field wiring.
- External mounting holes – Easy installation, and eliminate the need for cover removal.
- Standard lock – Mounts behind frame and does not require a faceplate.
- 1” throw latchbolt – Offers greater security. Each bolt is hardened to resist sawing. When latchbolt is engaged in
- strike, bevel is concealed to prevent picking.
- Mechanical unlocking by key – Specify Folger Adam Mogul cylinders, Maxi- Mogul® high security cylinders or other Mogul cylinders.

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Applications

Series 120MC Deadlatches are suitable for use in medium or maximum security situations to lock cell, corridor or entrance doors. Especially appropriate for areas requiring the latchbolt to remain retracted until it is selected to lock again.
Like all Series 120 locks, the jamb mounted 120MC Deadlatch is designed for use as part of an electrical system with remote operation and monitoring.

Operation

Standard (1): Unlocks when the motor is energized by either a two or three position, maintained contact switch, or a three position momentary contact switch. Once unlocked, the latchbolt remains retracted until it is selected to lock. Opening and closing the door has no effect on the lock when selected to unlock. The latchbolt extends only when the door is opened and the motor is selected to lock. If the door is closed, it must be opened to extend the latchbolt. Two additional variations on this feature are offered:

Without latchback (1a): Once unlocked, the latchbolt is held retracted only as long as the motor remains in the unlocked position. A maintained-contact switch may be used to keep the latchbolt retracted for an extended period of time.

Relock (1b) 09: Once unlocked, the latchbolt is held retracted until the door is opened. It then extends automatically. This operation requires an additional control wire, and may be canceled by adding an additional control switch. A momentary-contact switch is used for unlocking, and the auxiliary switch is used for relocking. When the door is opened, the auxiliary switch repositions the motor to a locked position so that the lock will deadlatch on closure.

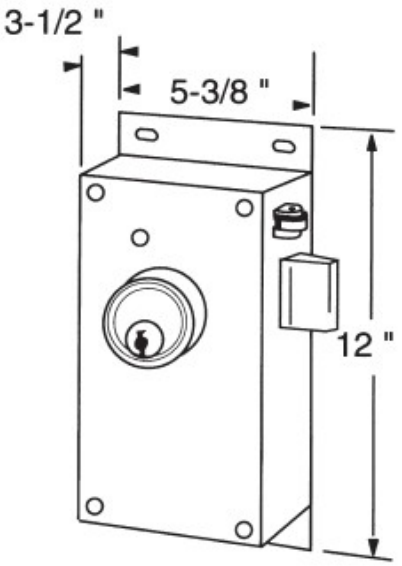
Knob release(2): 120MC Deadlatches may be specified with knob release on one side, where the knob is always active. Knob may be mounted on the case side, or the cover side.

Key holdback (3): When unlocked by key, the deadlatch remains retracted until relocked by turning the key in the opposite direction. Available one side only.
Note: Key cylinders for locks with key holdback feature must be installed at the factory.

Electric Locks
120MC Half-Cycle Deadlatch

Standard Features

- Investment-cast stainless steel strike – Furnished with four tamper-resistant screws.
- Fractional HP Motor – Permanently lubricated for smooth quiet operation with thermal overload protection and a brake for accurate locking position.
- Finish – Zinc plated case and cover.



Optional Features

- Faceplate – US32D finish.
- Indication/auxiliary switches – An indication switch monitors the deadlock lever indicating a deadlocked latchbolt. The auxiliary switch monitors the latchbolt for extended or retracted position.
- Local electric key (LEK) – A unique function which uses two types of keys for applications where inmates carry their own keys, but supervision is necessary. One key turns in one direction only and operates the lock electrically. The supervisory key turns in both directions to operate the lock electrically or mechanically. The electric operation may be canceled from a central console or control point at any time via a three-position switch. The Maxi-Mogul® key cylinder is uniquely suited for this high frequency operation, shown by cycle test of 1,000,000 operations. LEK not available on any 120MC-3 Series Locks.
- Key Cylinder Extension – When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket.
- Optional motor voltage – 24 VAC or 24 VDC.

Specifications

Case and Cover	10 gauge steel.
Latchbolt	Investment-cast stainless steel hardened, 1” throw.
Deadlock lever	Stainless steel, adjustable for door gap variations.
Bolt Opening	Investment-cast stainless steel with stainless steel roller
Opening Lever	One piece, bronze alloy with paracentric keyway.
Strike	Investment-cast stainless steel, attached with screws in two directions.
Solenoid	120 VAC continuous duty with stainless steel guides; 230VAC optional.
Springs	Stainless Steel

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Electric Locks
120MC Half-Cycle Deadlatch

Electrical Characteristics

- AC motors – Synchronous-type gearmotor with brake.
- Ratings: 120 VAC: 60 Hz, 1.3 amps at full load.
- DC motors – Permanent-ma net gearmotor
- Ratings: 24 VDC, 2.2 amps at full load.
- Switches – SPDT, UL Listed, 15 amps @ 125 or 250 VAC.

Model No.	Operation	Latchback		Operational Switches			Indication Switches		LEK Available
		With	W/O	Holdback	Relock	INT	Deadlatch	Aux	
120E-1-01	Standard (1)	X					X		YES
120E-1-04	Standard (1a)		X				X		YES
120E-1-07	Standard (1b)		X	X			X		YES
120E-2-01	Knob Release (2)	X					X		YES
120E-2-04	Knob Release (2a)		X				X		YES
120E-2-07	Knob Release (2b)		X	X			X		YES
120E-3-01	Key Holdback (3)	X					X		YES
120E-3-04	Key Holdback (3a)		X				X		YES
120E-3-07	Key Holdback (3b)		X	X			X		YES

The chart above shows applicability of above options to all 120MC Models. For complete details, see How to Specify in this section.

Electric Locks
120ED Deadbolt

Applications

Series 120ED Deadbolts are ideal for a wide range of medium or maximum security applications including cell doors, corridor doors, entryways or any opening requiring a deadbolt-type locking. These jamb-mounted locks are designed to be part of an electrical system with remote unlocking and monitoring to provide staff safety and operational flexibility.

Operations

Key Holdback (3): Units unlock by key or when the solenoid is energized by a momentary-contact switch or emergency-unlock signal (fire alarm). Once unlocked, the deadbolt is held mechanically retracted, regardless of door position, and must be relocked by key.

Standard Features

- Solenoid voltage – 120 VAC
- Superior durability – Working parts of stainless steel afford greater strength and corrosion-resistance.
- Standard lock size – All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- External two-piece plug connector – All models install without cover removal. Simple plug-in connection to field wiring.
- External mounting holes – Easy installation eliminates the need for case and cover removal.
- Standard lock – Mounts behind frame and does not require a
- faceplate.
- 1” throw deadbolt – Offers greater security. Each bolt is hardened to resist sawing.
- Mechanical unlocking by key – Specify Folger Adam Mogul cylinders, Maxi-Mogul® high security cylinders or other mogul cylinders.
- Continuous-duty solenoid – For instant action; positive unlocking.
- Finish – Zinc plated case and cover.
- Deadlock switch – Monitors the deadlock lever indicating a deadlocked deadbolt.

Optional Features

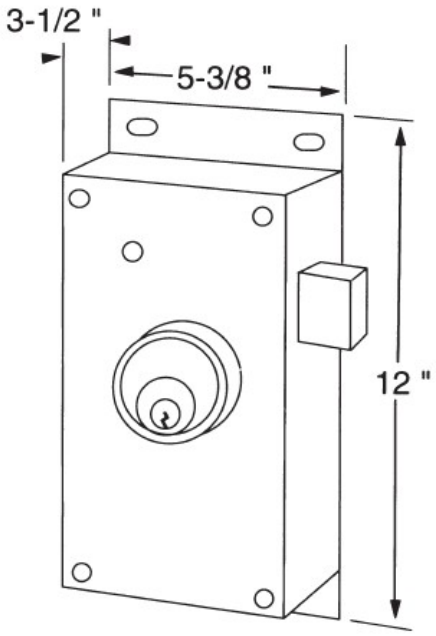
- Optional solenoid voltage – 230 VAC, 60Hz.
- Key Cylinder Extension – When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for 3”, E-4 for 4” or E-5 for 5”.

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Electric Locks
120ED Deadbolt

The chart below shows applicability of above options to all 120ED Models.

Model No.	Operation Description	Latchback	Indication Switch Deadlock
120ED-01	Key Hold-back	X	X



Electrical Characteristics

- Solenoid voltage standard (120 VAC) – 13 amps inrush - .75 amps seated.
- Solenoid voltages optional (230 VAC) – 6.6 amps inrush - .38 amps seated.
- Switches – SPDT, UL Listed, 15 amps @ 125 or 250 VAC.

Specifications

Case and Cover	10 gauge steel.
Deadbolt	Investment-cast stainless steel, hardened, 1” throw.
Deadlock lever	Stainless steel, adjustable for door gap variations.
Bolt Opening	Does not allow access to mechanism.
Operating Lever	Stainless steel to operate with solenoid.
Solenoid	120 VAC continuous duty with stainless steel guides; 230VAC optional.
Springs	Stainless Steel

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Electric Locks
120RUP Deadbolt

Applications

Series 120RUP Deadlatches are designed to provide security for garage and service bay roll-up doors. In the case of roll-up shutters or unusual closures, the units may be keyed two sides, with key holdback one side only. 120RUP Models are fully compatible with electrically operated and monitored systems and provide safe, remote locking and unlocking.

Operations

This device unlocks when the solenoid is energized by a momentary contact switch. Once unlocked, the latchbolt is held mechanically retracted and a switch energizes the “open” circuit of the roll up door. When the door is opened, the latchbolt extends automatically. 120RUPlocks may be mechanically unlocked by key, with latchbolt remaining retracted until relocked by key.

Optional Features

- Optional solenoid voltage – 230 VAC, 60Hz.
- Indication/auxiliary switches – An indication switch monitors the deadlock lever indicating a deadlocked latchbolt.
- Key cylinder extension – When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for 3”, E-4 for 4” or E-5 for 5” extensions.

Standard Features

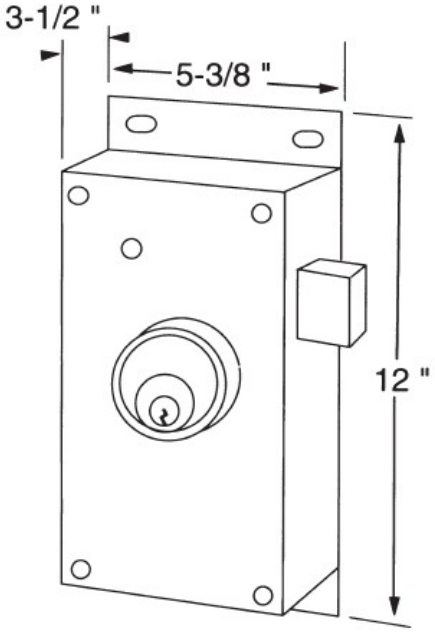
- Solenoid voltage – 120 VAC.
- Superior durability – Working parts of stainless steel afford greater strength and corrosion-resistance.
- Standard lock size – All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- External mounting holes – Easy installation and eliminate the need for case and cover removal.
- 1” throw latchbolt – Offers greater security. Each bolt is hardened to resist sawing.
- Mechanical unlocking by key – Specify Folger Adam Mogul cylinders or Maxi-Mogul® high security cylinders.
- Continuous-duty solenoid – Provides instant unlocking action.
- Finish – Zinc plated case and cover.

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Electric Locks
120RUP Deadbolt

Electrical Characteristics

- Solenoid voltage standard (120 VAC) – 13 amps inrush - .75 amps seated.
- Solenoid voltages optional (230 VAC) – 6.6 amps inrush - .38 amps seated.
- Switches – SPDT, UL Listed, 15 amps @ 125 or 250 VAC.



Specifications

Case and Cover	10 gauge steel.
Latchbolt	Investment-cast stainless steel, hardened, 1” throw.
Deadlock lever	Stainless steel, adjustable for door gap variations.
Roller Bolt	Investment-cast stainless steel with stainless steel roller.
Operating Lever	Stainless steel to operate with solenoid.
Solenoid	120 VAC continuous duty with stainless steel guides; 230VAC optional.
Springs	Stainless Steel

Electric Locks

NS400E Solenoid-Operated Deadlatches

Applications

Specify for minimum/medium security swinging cell, corridor or administration areas of institutions with 2” wide hollow metal jamb construction.

Operation

A remote switch is used to control the lock electrically, or it may be operated mechanically by builders hardware cylinder. These locks offer the convenience of remote, electric unlocking or locking and automatic deadlocking when the door is closed. Fail-Safe Models: Unlock when solenoid is de-energized (1): by switch or power failure, and the latch remains retracted while the door is open. Upon closure, with power restored, the latchbolt extends and deadlocks. Non-Fail-Safe Models: Unlock when solenoid is energized (1): by a momentary-contact switch. Latchbolt remains retracted mechanically

Standard Features

- Holdback switch (Models NS400EFS, NS400E with electrical holdback) – Maintains electrical holdback. Requires a relay in the central control console.
- Finish – US32D satin stainless steel.
- Indication switch – An internal switch to monitor the positions of the deadlock actuator. Signals deadlocked condition. Inmate push button – Allows operation of the lock from inside the room or cell. May be canceled from central control console. A double-pole, double-throw switch is available for additional functions.
- Key cylinder extension – Required when lock is keyed on the stop side of the door frame. Five standard lengths are offered:

NS402E & NS402EFS Keyed one side
NS406E & NS406EFS Keyed both sides

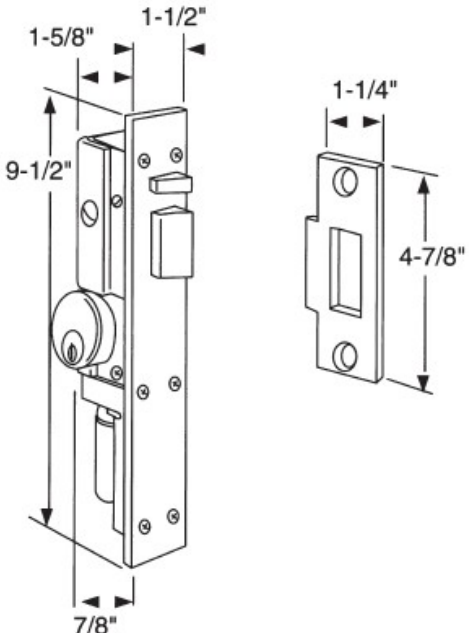
Standard Features

- Instant solenoid actuation – Heavy duty solenoid provides fast, audible latchbolt operation.
- Fail-safe model operation – Solenoid holds latchbolt extended and deadlocked.
- Compact size – Designed for hollow metal frames with standard 2” face.
- Power modulator – Allows solenoid models to operate on either 24VAC or 24VDC - reduces power consumption. UL listed and patented (Pat. No. 4,797,779).
- Two-piece, twelve-pin plug connector – Simplifies wiring, allows pre-wiring of the lock opening.
- Heavy duty lock mechanism – Designed with heavy duty, corrosion resistant working parts tested over 1,000,000 cycles.
- Stainless steel strike – Angled lip type, furnished with tamper-resistant screws. Requires less force to close and lock the door.
- Mechanical latchback (Model NS400E-01) – Holds latchbolt retracted until door opens. Not available in fail-safe models.
- Mechanical unlocking by key – Offers manual control at the door in event of power failure or at any other time.
- Stainless steel latchbolt – 3/4” throw, hardened to resist sawing.

Electric Locks
NS400E Solenoid-Operated Deadlatches

Optional Features

- Builders hardware cylinders – High security six-pin tumbler cylinder may be specified. Special keying requests will be accommodated, if possible.
  NOTE: Customer-supplied key cylinders may be used to adapt NS400 Series locks to a specific keying system. These cylinders must have: a) 1-5/32” diameter, full bar stock bodies. b) 1-1/8” length, including cam. c) Standard, removable Yale-type cam.
  Cylinders and all keys should be sent to Southern Folger Detention Equipment Company and arerequired with cylinder extenders.
- Inmate push button – Allows operation of the lock from inside the room or cell. May be canceled from central control console. A double-pole, double-throw switch is available for additional functions.
- Local electric key (LEK) – Inmate key operates lock electrically. Staff keys always operate the lock manually and can operate it electrically. Feature is enabled or canceled from a remote control console.
  NOTE: When key cylinders for LEK are supplied by customer, contact factory before ordering or sending cylinders
- Key cylinder extension – Required when lock is keyed on the stop side of the door frame. Five standard lengths are offered:



Jamb Size	Cylinder Extension
4-1/2” - 5”	4-3/4”
5” - 6”	5-3/4”
6” - 7”	6-3/4”
7” - 8”	7-3/4”
8” - 9”	8-3/4”

Feature/Option Chart

Model	Operation	Indication Switch	Latchback			Operational Switch Holdback	LEK Option	Continuous Duty Modulator
			With	W/O	Electric			
NS400E-01	1	X	X				Available	Standard
NS400E-04	2	X		X			Available	Standard
NS400E-07	3	X			X	X	Available	Standard
NS400EFS-04	1	X		X		X	Available	Standard

Electric Locks
NS400E Solenoid-Operated Deadlatches

Electrical Characteristics

- Solenoid – Tubular, continuous duty power modulator.
- Voltage – 24 VAC or DC, 3.3 amps, 82 watts inrush; .25 amps
- 6 watts seated. Indication switch – SPDT, UL listed.
- Switch rating – 5 amp @ 125 or 250 VAC.

Specifications

Lock Case	Investment-cast stainless steel.
Latchbolt	Investment-cast stainless steel hardened.
Latchbolt throw	3/4”
Operating Lever	Stainless steel
Deadbolt lever/trigger bolt	Investment-cast stain-less steel
Strike	Stainless Steel Stamping, angled lip.

Note: Dimensions are for information and planning purposes only, and should not be used as templates. For complete details, see How to Specify in this section.

Electric Locks

NS400M and 400MC Motor-Operated Deadlatches

Standard Features

- Heavy-duty lock mechanism – Designed to complement the high torque motor. Corrosion resistant working parts tested over 1,000,000 cycles.
- Stainless steel strike – Angled lip type, furnished with tamper resistant screws. Requires less force to close and lock the door.
- Mechanical latchback (Models NS400M, NS400MC) – Holds latchbolt retracted until door opens.
- Mechanical unlocking by key – Offers manual control at the door in event of power failure, or at any other time.
- Stainless steel latchbolt – 3/4” throw, hardened to resist sawing.
- Relock switch (Model NS400MC) – Repositions motor to relock when door is opened.
- Finish – Key Cylinder: US32D.
- Indication switch – An internal switch to monitor the positions of the deadlock actuator. Signals deadlocked condition.

NS402M/MC Keyed one side
NS406M/MC Keyed both sides

Applications

Specify for minimum/medium security swinging cell, corridor or administration areas of institutions, with 2” wide hollow metal jamb construction.

Operation

A remote switch is used to control the lock electrically, or may be operated mechanically by a builders hardware key cylinder. These locks offer the convenience of remote, electric unlocking or locking and automatic deadlocking when the door is closed.
Motor-Actuated Models: Unlock when the motor is energized (1): by a momentary-contact switch. Latchbolt is held mechanically retracted until the door is opened. It then extends automatically (mechanical latchback).
Two-Position Motor, Actuated Models Lock or unlock when the motor is energized (1): by either a two or three position maintained-contact switch, or by a three-position, momentary-contact switch. When unlocked by control switch, latchbolt remains retracted by motor position until control switch is set to lock. Latchbolt is held mechanically retracted until the door is opened. It will then extend automatically, if the control switch is set to the lock position (mechanical latchback).
Lock or unlock when the motor is energized (2): by either a two or three position maintained-contact switch, or a three-position momentary-contact switch. Latchbolt then remains retracted until selected to lock. Opening and closing the door has no effect on the lock (no latchback).
Unlock when the motor is energized (3): by a momentary contact switch. A relock switch energizes the motor to relock once the door is open. On closure, the latchbolt deadlocks automatically (no latchback with relock).

Standard Features

- 300 lb. rated side load motor operation (Models NS400M, NS400MC) – Preclude jamming by applying side pressure on the door.
- Compact size – Designed for hollow metal frames with standard 2” face.
- Two-piece, twelve-pin plug connector – Simplifies wiring, allows pre-wiring of the lock opening.

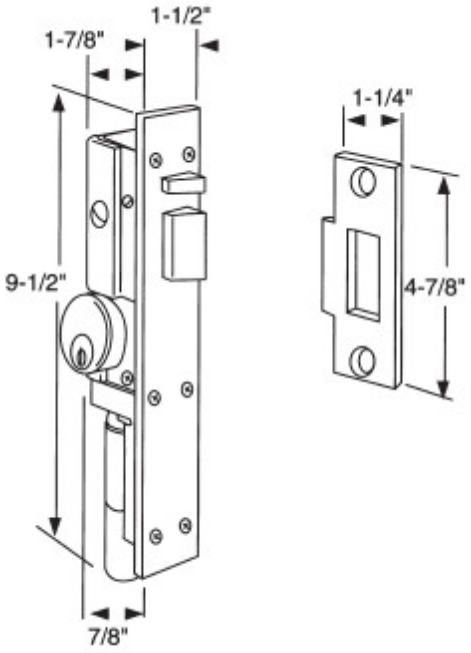
Electric Locks

NS400M and 400MC Motor-Operated Deadlatches

Optional Features

- Builders hardware cylinders – High security six-pin tumbler cylinder may be specified. Special keying requests will be accommodated, if possible.
  Note: Customer supplied key cylinders may be used to adapt NS400 Series locks to a specific keying system. These cylinders must have: a. 1-5/32” diameter, full bar stock bodies. b. 1-1/8” length, including cam. c. Standard, removable Yale-type cam. Cylinders and all keys should be sent to Southern Folger Detention Equipment Company and are required with cylinder extenders.
- Local electric key (LEK) – Inmate key operates lock electrically. Staff keys always operate the lock manually and can operate it electrically. Feature is enabled or canceled from a remote control console.
- Inmate push button – Allows operation of the lock from inside the room or cell. May be canceled from central control console. A double pole, double throw switch is available for additional functions.
- Key cylinder extension – Required when lock is keyed on the stop side of the door frame. Five standard lengths are offered:

Jamb Size	Cylinder Extension
4-1/2” - 5”	4-3/4”
5” - 6”	5-3/4”
6” - 7”	6-3/4”
7” - 8”	7-3/4”
8” - 9”	8-3/4”



Feature/Option Chart

Model	Operation	Indication Switch	Latchback		Operational Switch Holdback	LEK Option	Continuous Duty Modulator
			With	W/O			
NS400M-01	1	X	X			Available	No
NS400M-04	1	X	X			No	No
NS400M-07	2	X		X		No	No
NS400MC-04	3	X		X	X	Available	No

Electric Locks

NS400M and 400MC Motor-Operated Deadlatches

Electrical Characteristics

- Motor – High-torque, permanently lubricated, permanent magnet, planetary gearmotor, UL Listed.
- Voltage – 24 VDC, operates on 24 VAC via rectifier 0.12 Amps running, 1.29 amps stalled.
- Indication switch – SPDT, UL listed.
- Switch rating – 5 amp @ 125 or 250 VAC.

Specifications

Lock Case	Investment-cast stainless steel.
Latchbolt	Investment-cast stainless steel hardened.
Latchbolt throw	3/4”
Operating Lever	Stainless steel
Deadbolt lever/trigger bolt	Investment-cast stain-less steel
Strike	Stainless Steel Stamping, angled lip.

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Electric Locks
NS400MCD Motor-Operated Deadbolts

Optional Features

Key cylinder extension – Required when lock is keyed on the stop side of the door frame. Five standard lengths are offered:

Jamb Size	Cylinder Extension
4-1/2" - 5"	4-3/4"
5" - 6"	5-3/4"
6" - 7"	6-3/4"
7" - 8"	7-3/4"
8" - 9"	8-3/4"

Note: Please specify appropriate cylinder extension length when ordering. Special lengths may be provided for other jamb thickness. Contact factory for pricing and availability.

- Finish – Key cylinder: US26D.

NS402MCD Keyed one side
NS406MCD Keyed both sides

Applications

Specify for minimum/medium security swinging cell or office areas of institutions requiring deadbolt locks for use in 2" wide hollow metal jamb construction.

Standard Features

- 300 lb. rated side load motor operation – Precludes jamming by applying side pressure on the door.
- Heavy-duty lock mechanism – Designed to complement the high torque motor. Corrosion-resistant working parts tested over 1,000,000 cycles.
- Compact size – Specifically for hollow metal frames with standard 2" face.
- Two-piece, twelve-pin plug connector – Simplifies wiring, allows pre-wiring of the lock opening.
- Stainless steel strike – Furnished with tamper-resistant screws.
- Holdback switch – Does not allow deadbolt to extend while door is open.
- Mechanical unlocking by key – Offers manual control at the door in event of power failure, or at any other time.
- Stainless steel deadbolt – 3/4" throw, hardened to resist sawing.
- Faceplate finish – US32D satin stainless steel.
- Indication switch – An internal switch to monitor the positions of the deadlock actuator. Signals deadlocked condition.

Optional Features

- Builders hardware key cylinders – High security six-pin tumbler cylinder may be specified. Special keying requests will be accommodated, if possible.

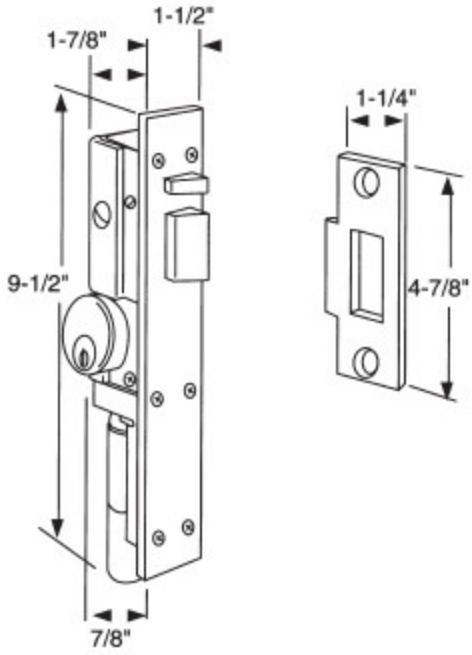
  Note: Customer supplied key cylinders may be used to adapt NS400 Series locks to a specific keying system. These cylinders must have:
  1. 1-5/32" diameter, full bar stock bodies.
  2. 1-1/8" length, including cam.
  3. Standard, removable Yale-type cam. Cylinders and all keys should be sent to Southern Folger Detention Equipment Company and are required with cylinder extenders.

Electric Locks

NS400MCD Motor-Operated Deadbolts

Feature/Option Chart

Model	Operation	Indication Switch	Latchback Without	LEK Option	Continuous Duty Modulator
NS400M-01	Standard	X	X	No	No



Electrical Characteristics

- Motor – High-torque, permanently lubricated, permanent magnet, planetary gearmotor, UL Listed.
- Voltage – 24VDC or 24VAC 0.12 running, 1.29 amps stalled.
- Indication switch – SPDT, UL listed.
- Switch rating – 5 amp @ 125 or 250 VAC.

Specifications

Lock Case	Investment-cast stainless steel.
Deadbolt	Investment-cast stainless steel hardened.
Deadbolt throw	3/4”
Operating Lever	Stainless steel
Deadbolt lever/trigger bolt	Stainless steel
Strike	Stainless Steel Stamping

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Electric Locks
800 Gate Locks

802ES
Left Hand Shown

802ER
Left Hand Shown

Optional Features

- Solenoid voltage – 220VAC, 60hz.
- Auxiliary indication switch – Specify "ES-LL" or "ER-LL".

Note: When gate is open, the switch actuator for the locking tongue can be manually depressed, giving a false indication that the gate is locked. This can be eliminated by installing a gate position indication switch and wiring it in series with the indication switch in the lock. A "secure" signal can then be produced only after three conditions have been met:

1. Locking tongue switch actuator is depressed;
2. Deadbolt is extended and deadlocked, and
3. Gate is closed.

Note: Electrical interlocking of gates requires special wiring and/or adaptations for control consoles.

For Swinging Gates: 802ES-L Keyed cover side
806ES-L Keyed both sides
For Sliding Gates: 802ER-L Keyed cover side
806ER-L Keyed both sides

Applications

For use on sliding or swinging chain-link fence gates. Provide automatic deadlocking with flexibility of remote unlocking.

Applications

This lock is electrically operated for unlocking. The deadbolt retracts when solenoid is energized. Once retracted, deadbolt is held electrically retracted until gate is closed. Deadbolt extends automatically in case of power failure. Emergency mechanical operation by paracentric key.

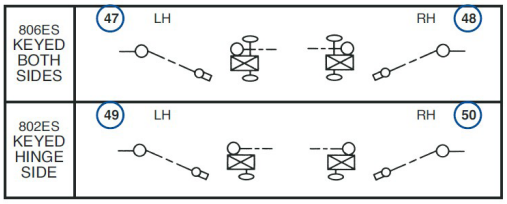
Standard Features

- Solenoid actuated – 120 VAC, 60hz, continuous-duty type.
- Unlocking by prison paracentric key in case of power failure or for local control. When unlocked by key, deadbolt remains retracted until relocked by key.
- Deadlocks automatically – When gate is closed.
- Adjustable mounting and locking tongue – Fits fence posts between 2" and 8-5/8" diameter; gate posts between 1" and 4-1/4" diameter.
- See "How to Order" page A34.
- Push-in type terminal strip – For easy field wiring.
- Case and cover – 7-gauge steel
- Corrosion resistant working parts
- Stainless steel deadbolt – 3/4" diameter
- Hardened-steel deadlock lever Tumbler options – Choice of five or six tumbler models. Six tumbler model offers greater pick resistance. Tumblers are made of spring-temper brass and activated by heavy, phosphor-bronze springs.
- One-piece key cylinder – Investment cast, bronze alloy with paracentric keyway. (Paracentric, lever tumbler keys must be purchased separately.)
- Tamper resistant screws for attaching cover.
- Finish – Zinc plated.
- Mounting hardware – Supplied with mounting brackets, locking tongue and mounting screws.
- Indication switch – A lock status switch monitors the deadbolt and its deadlocked condition.

Electric Locks
800 Gate Locks

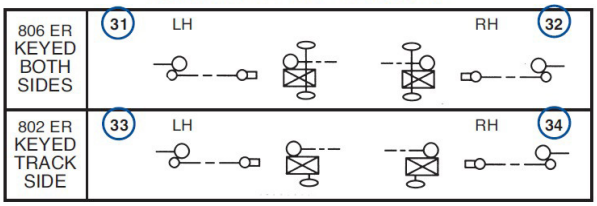
800ES Fence Gate Locks

COVER PLATE HINGE SIDE

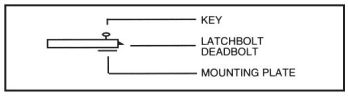


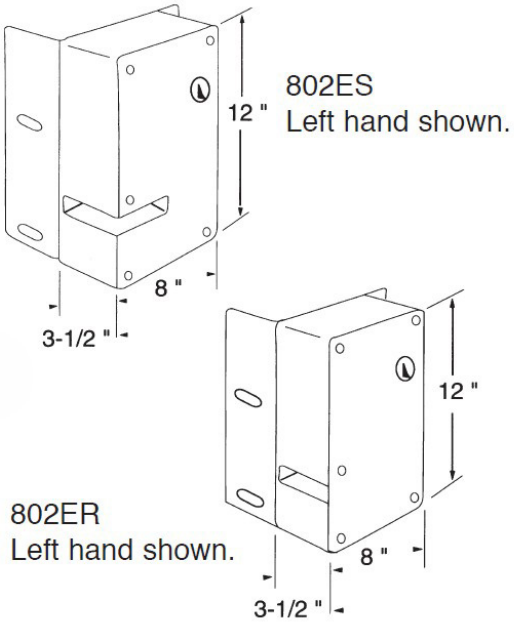
800ER Fence Gate Locks

LOCK COVER PLATE TRACK SIDE



LEGEND





Specify Circled swing number when ordering

- Actuator – Continuous-duty solenoid.
- Voltage – 120VAC, 60HZ, 13 amps inrush, .75 amps seated. 220VAC, 60HZ, 6.5 amps inrush, 0.3 amps seated.
- Indication switch(es) – SPDT, UL listed.
- Ratings – 15 amps @ 125 or 250 VAC.

Specifications

Case Cover	7 Gauge Steel
Finish	Zinc Plated Steel
Working Parts	Zinc Plated Steel
Springs	Stainless steel
Deadbolt Size	3/4” Diameter

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

FOLGER ADAM
Established 1905

Folger Adam

Pneumatic Locks

Pneumatic Locks

NS400P Pneumatic Deadlatches

Applications

Specify for minimum/medium security swinging cell, corridor or administration areas of institutions with 2” wide hollow metal jamb construction.

Operations

A remote switch is used to control the lock pneumatically, or it may be operated mechanically by builders hardware key cylinder. These locks offer the convenience of remote, electric unlocking or locking and automatic deadlocking when the door is closed.

Non-Fail-Safe Models Unlock when solenoid is energized
(1): by a momentary-contact switch. Latchbolt remains retracted mechanically until the door is opened. Upon opening the door the latchbolt extends. The latchbolt is deadlocked mechanically when the door is closed.

Unlock when solenoid is energized (2): by a momentary-contact switch. Latchbolt is electrically held retracted as long as control switch is tripped. (No mechanical latchback). The door must be opened while control switch is in the unlocked position. The latchbolt is deadlocked when the door is closed. A maintained-contact switch will hold the lock unlocked until the switch is released.

Standard Features

- Instant solenoid actuation – Instant bolt retraction provided by pneumatic cylinder.
- Stainless steel latchbolt – 3/4” throw, hardened to resist sawing.
- Finish – US32D.
- Indication switch – an internal switch to monitor the positions of the deadlock actuator. Signals deadlocked condition.

Standard Features

- Compact size – Designed for hollow metal frames with standard 2” face.
- Two-piece, twelve-pin plug connector – Simplifies wiring, allows pre-wiring of the lock opening.
- Heavy duty lock mechanism – Designed with heavy duty, corrosion resistant working parts tested over 1,000,000 cycles.
- Stainless steel strike – Angled lip type, furnished with tamper-resistant screws. Requires less force to close and lock the door.
- Mechanical latchback (Model NS400P-01) – Holds latchbolt retracted until door opens.
- Mechanical unlocking by key – Offers manual control at the door in event of power failure or at any other time.

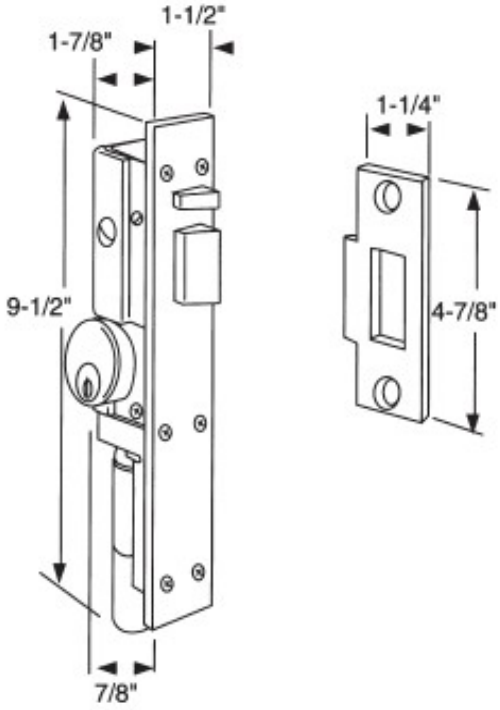
NS402P Keyed one side
NS406P keyed both sides

Pneumatic Locks
NS400P Pneumatic Deadlatches

Optional Features

- Manual air release system – Allows for the manual release of door or groups of doors from a remote location. Doors remain unlocked until system is manually reset. Specify MARS.
- Builders hardware key cylinders – High security six-pin tumbler cylinder may be specified. Special keying requests will be accommodated, if possible.

NOTE: Customer-supplied key cylinders may be used to adapt NS400 Series locks to a specific keying system. These cylinders must have:
a) 1-5/32” diameter, full bar stock bodies.
b) 1-1/8” length, including cam.
c) Standard, removable Yale-type cam.
Cylinders and all keys should be sent to Southern Folger Detention Equipment Company. Required with LEK feature and cylinder extensions. Customer is responsible for supplying the appropriate spacer ring(s). Any variations from removable, Yale-type cam require special pricing.



- Local electric key (LEK) – Inmate key operates lock electrically, staff keys always operate the lock manually, and can operate it electrically. Feature is enabled or canceled from a remote control console.
- Inmate push button – Allows operation of the lock from inside the room or cell, may be canceled from central control console. A double-pole, double-throw switch is available for additional functions.
- Key cylinder extension – Required when lock is keyed on the stop side of the door frame. Five standard lengths are offered:

Jamb Size	Cylinder Extension
4-1/2” - 5”	4-3/4”
5” - 6”	5-3/4”
6” - 7”	6-3/4”
7” - 8”	7-3/4”
8” - 9”	8-3/4”

NOTE: Please specify appropriate cylinder extension length when ordering. Special lengths may be provided for other jamb thicknesses. Please contact factory for pricing and availability.

- Finish - Key Cylinder: US26D.

Pneumatic Locks

NS400P Pneumatic Deadlatches

Specifications

Lock Case	Investment-cast stainless steel
Latchbolt	Investment-cast stainless steel, hardened
Latchbolt Throw	3/4”
Operating Lever	Stainless steel
Deadbolt lever/trigger bolt	Investment-cast stainless steel
Strike	Stainless steel stamping angled lip

Electrical Characteristics

- Pneumatic solenoid voltage – 24VDC with 1.5 watts power, consumption, self -return type.
- Indication switch – SPDT, UL listed.
- Rating – 5 amp @ 125 or 250 VAC.

Feature/Option Chart

MODEL NO.	OPERATION DESCRIPTION	INDICATION SWITCH	LATCHBACK		OPERATIONAL SWITCH HOLDBACK	LEK OPTION	MARS
			WITH	WITHOUT			
NS400M-01	1	X	X			Available	Available
NS400MC-01	2	X		X		Available	Available

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Pneumatic Locks
120P Deadlatch

Description

120P Series Deadlatches are pin tumbler, pneumatically-operated locks for swinging doors. Specify keying as follows:

121 Keyed case side
122 Keyed cover side
126 Keyed both sides

Applications

Series 120P Deadlatches are suited for medium or maximum security application including cell doors, sallyport or egress doors, corridor or entrance doors. Sensitive administration areas of an institution may also warrant 120 Series locks.

These jamb-mounted locks are designed to be controlled by an electronic control system and provide monitoring of lock status for optimum protection and flexibility.

Standard Features

- Mechanical unlocking by keys – Specify Folger Adam Maxi-Mogul® high-security cylinders.
- Investment-cast stainless steel strike – Furnished with four tamper-resistant screws.
- Finish – Zinc plated.

Optional Features

- Key cylinder extension – When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for a 3” extension, E-4 for a 4” extension or E-5 for a 5” extension.
- Manual air release system – Allows for the manual release of doors or groups of doors from a remote location. Latchbolt remains retracted until system is manually reset. Specify MARS.
- ASSA or MEDECO Mogul cylinders – Are available to match existing.

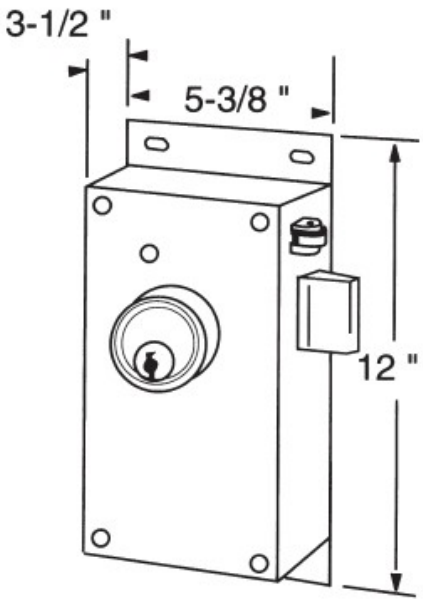
Standard Features

- Indication switch – A lock status switch monitors the latchbolt extension and its deadlocked condition.
- Pneumatic solenoid voltage – 24VDC.
- Superior durability – Working parts of stainless steel afford greater strength, durability and corrosion resistance.
- Standard lock size – All models use the same size case, cover and mounting holes for simplified installation and frame preparation.
- External, two-piece plug connector (not shown) – All models install without cover removal. Simple plug-in connection to field wiring.
- External air coupler – Allows air system connection to lock without removing covers.
- External mounting holes – Easy installation eliminates the need for cover removal.
- Standard lock – Mounts behind frame and does not require a faceplate.
- 1” throw latchbolt – Offers greater security. Each bolt is hardened to resist sawing. When latchbolt is engaged in strike, bevel is concealed to prevent picking.

Pneumatic Locks
120P Deadlatch

Optional Features

- Local electric key (LEK) – A unique function which uses two types of keys for applications where inmates carry their own keys, but supervision is necessary. One key turns in one direction only, and operates the lock electrically. The supervisory key turns in both directions to operate the lock electrically and mechanically. The electric operation may be canceled from a central console or control point at any time via a three-position switch. The Maxi-Mogul® Key Cylinder is uniquely suited for this high frequency operation, shown by cycle tests of 1,000,000 operations.
- Key cylinder extension – When the lock is keyed on the stop side of the jamb, an extension eliminates the need for a special, recessed frame pocket. Specify E-3 for a 3” extension, E-4 for a 4” extension or E-5 for a 5” extension.
- Manual air release system – Allows for the manual release of doors or groups of doors from a remote location. Latchbolt remains retracted until system is manually reset. Specify MARS.
- ASSA or MEDECO Mogul cylinders – Are available to match existing.



Operation

Standard (1): Series 120P locks unlock when the pneumatic solenoid is energized by a momentary-contact switch. Once unlocked, the latchbolt is held mechanically retracted until the door is opened. It then extends automatically.
Without latchback (1a), 04: Once unlocked, the latchbolt is held retracted as long as the pneumatic solenoid is energized. A maintained-contact switch may be used to keep the latchbolt retracted for an extended period of time.
Knob release (2): 120P Deadlatches may be specified with knob release on one side, where the knob is always active. Knob may be mounted on the case side or the cover side.
Key holdback (3): When unlocked by key, the deadlatch remains retracted until relocked by turning the key in the opposite direction. Available one side only.

Pneumatic Locks
120P Deadlatch

Standards Compliance

All Series 120P locks are UL1034 Burglary-Resistant Mechanisms. Maxi- Mogul® key cylinders are UL437 listed.
ASTM F-1577 Grade 1 – Impact.

Electrical Characteristics

- Pneumatic solenoid voltage – 24VDC with 5.4 watts power consumption. 2.4 watts on MARS option.
- Indication switch – Deadlock and auxiliary.
- Rating – 15 amps @ 125 or 250 VAC.

Specifications

Case and Cover	10 gauge steel
Latchbolt	Investment-cast stainless steel hardened 1” throw
Deadlock lever	Stainless steel, adjustable for door-gap variations
Bolt Opening	Does not allow access to mechanism
Roller Bolt	Investment-cast stainless steel with stainless steel roller
Operating Lever	Stainless steel to operate with solenoid.
Strike	Investment-cast stainless steel, attached with screws in two directions.
Springs	Stainless Steel

Dimensional Data

Note: Dimensions are for information and planning purposes only and should not be used as templates.

Feature/Option Chart

MODEL NO.	OPERATION DESCRIPTION	LATCHBACK		INDICATION SWITCH	LEK OPTION	MARS
		WITH	WITHOUT			
120P-01	Standard (1)	X		X	Available	Available
120P-1-04	Standard (1a)		X	X	Available	Available
120P-2-01	Knob Release	X		X	Available	Available
120P-2-04	Knob Release		X	X	Available	Available
120P-3-01	Key Holdback	X		X	No	Available
120P-3-04	Key Holdback		X	X	No	Available

Pneumatic Locks
51P Deadlatch

Standard Features

- Solid steel latchbolt – Latchbolt is zinc plated steel, concealed pins resist sawing.
- Deadlock actuator – Roller-type, zinc plated steel, adjustable for variations in door-to-jamb clearance.
- Finish – Zinc plated.

52P Five-tumbler lock, keyed cover side.
52P-6 Six-tumbler lock, keyed cover side.
56P Five-tumbler lock, keyed both sides.
56P-6 Six-tumbler lock, keyed both sides.

Applications

51P Deadlatches are designed for jamb mounted installation, and provide maximum security for heavily-used cell, corridor, or entrance doors. They provide the convenience of slamlocking with remote unlocking.

Operation

Standard (1): When connected to a momentary-contact switch, the latchbolt retracts when the pneumatic solenoid is energized. Once retracted, the latchbolt is held mechanically retracted until the door is opened. The latchbolt extends when the door is open.

Standard (1a): When connected to a maintained-contact switch, the latchbolt retracts when the pneumatic solenoid is energized. Once retracted, it is held electrically retracted for an extended period of time. The latchbolt extends only when the door is open and the solenoid is de-energized.

No-notch (2): Latchbolt extends when the switch is selected to lock. (No-notch feature, see description on page B10.)

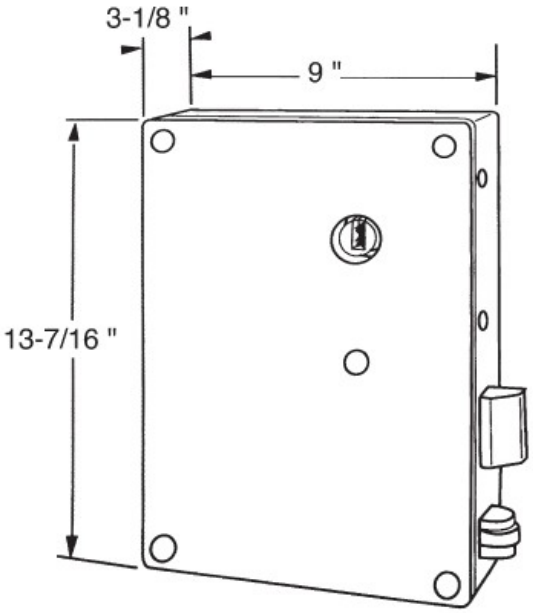
Standard Features

- Pneumatic solenoid voltage – 24VDC.
- Two-piece plug connector – Simplifies wiring.
- External air coupler – Allows air system connection to lock without removing covers.
- Instant solenoid operation – Dependable, continuous-duty pneumatic solenoid.
- Automatic deadlocking – When the latchbolt is extended, it automatically deadlocks on closure.
- Full 3/4” bolt throw – Projects 1/4” when retracted.
- Mechanical unlocking by key – During power failure, or any time the lock unlocks by use of prison paracentric key. Latchbolt remains retracted until relocked by key.
- High security – 6-tumbler model offers greater pick resistance.
- Indication switch – A lock status indication switch which monitors the extension of the latch bolt and the deadlocked condition is included.
- Rugged construction – Case and cover are 7 gauge steel.

Pneumatic Locks
51P Deadlatch

Optional Features

- Bolt projection – Standard 1/4” when retracted 3/4” bolt throw. Consult factory for other projections.
- No-notch feature – The holdback lever has no notch to hold the latchbolt mechanically retracted. The latchbolt extends in the locked position regardless of the position of the door.
- Interlocking – Accomplished through the control console.
- Manual air release system – Allows for the manual release of doors or groups of doors from a remote location. Latchbolt remains retracted until system is manually reset. Specify MARS.



Electrical Characteristics

- Pneumatic solenoid voltage – 24VDC with 5.4 watts power consumption; 2.4 watts on MARS option.
- Indication switch – SPDT, UL Listed.

Specifications

Case Cover	7 gauge steel
Latchbolt	Solid steel, with hardened steel roller pins.
Deadlock Actuator	Zinc steel, roller-type
Lever tumblers	spring-temper brass, activated by heavy phosphor-bronze springs.
Key Cylinder	One-piece, bronze alloy with paracentric keyway
Bolt Size	2” x 3/4”
Bolt Throw	3/4”

Note: Dimensions are for information and planning purposes only and should not be used as templates.

FOLGER ADAM
Established 1905

Folger Adam

Mechanical Locks

Mechanical Locks
10 Deadlock

Applications

Series 10 Deadlocks are designed for use on small swinging doors such as access panels, plumbing spaces, electric panels or hatches which are infrequently used. They are not intended for use on cell doors. Specify handing when ordering.

Standard Features

- Mechanical operation – Locks and unlocks by key. For key removal in locked position only, specify a single wing escutcheon on lock mounting or access door.
- Durable case – Ductile iron case, 1/4” thick steel cover.
- Corrosion resistance – Working parts are corrosion resistant.
- Heavy-duty lever tumblers – Spring temper brass tumblers, activated by heavy phosphor bronze springs. Precision fit to locking fence.
- Large, solid deadbolt – Zinc plated steel, 1-1/2” x 3/4”.
- Bolt throw – 5/8”.
- Bolt projection – 1/2” or 1-1/4” standard.
- Investment-cast key cylinder – One-piece bronze alloy with paracentric keyway.
- Finish – Zinc plated.

Optional Features

- High security – Six tumbler model offers greater pick resistance.
- Mounting – Hollow metal or plate mounting.

Accessories

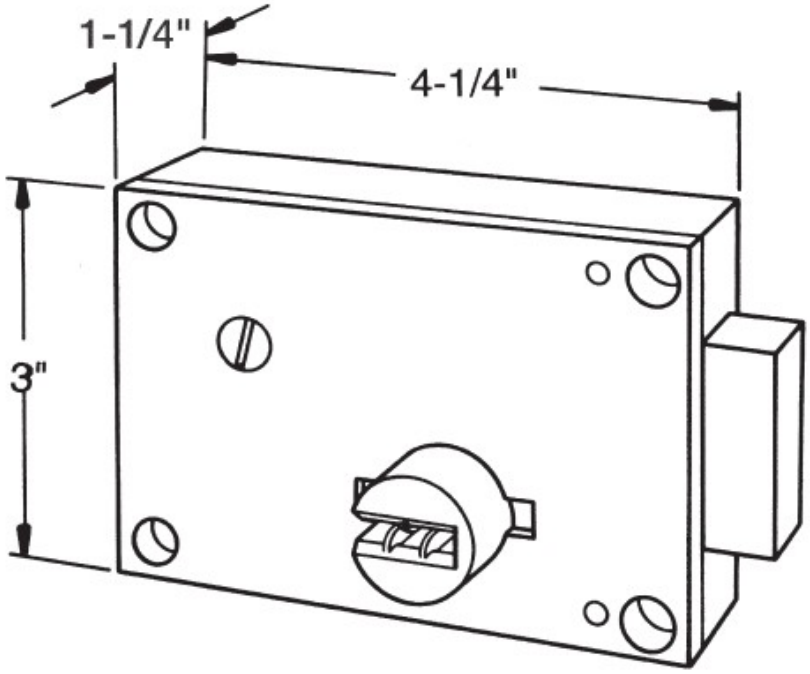
(must be specified separately)

- 10-4B – Mortise Keeper and mounting screws.
- 10-4BL – Mortise Keeper Switch with mounting screws.
- 10-4DB – Mortise Keeper with dustbox and mounting screws.
- 10-4F – Surface Keeper and mounting screws.

12 Five tumbler model, keyed cover side
12-6 Six tumbler model, keyed cover side
16 Five tumbler model, keyed both sides
16-6 Six tumbler model, keyed both sides

Mechanical Locks
10 Deadlock

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



Specify circled swing number when ordering.

MOUNTING PLATE HINGE SIDE

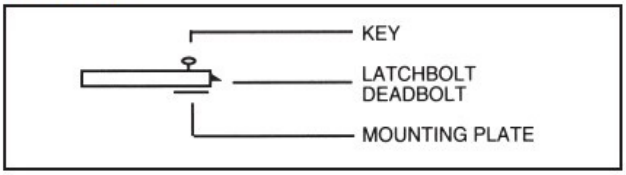
KEYED BOTH SIDES	(1) RH	LH (2)
KEYED HINGE SIDE	(5) RH	LH (6)
KEYED STOP SIDE	(9) LH	RH (10)

MOUNTING PLATE STOP SIDE

KEYED BOTH SIDES	(3) LH	RH (4)
KEYED STOP SIDE	(7) LH	RH (8)
KEYED HINGE SIDE	(11) RH	LH (12)

1-1/4" projection required with stop-side mounting.

LEGEND



Mechanical Locks
80 Deadlock

Accessories

(must be specified separately)
- 80-4B – Mortise keeper and mounting screws.
- 80-4BL – Mortise keeper with switch
- and mounting screws. 80-4DB – Mortise keeper with dustbox and mounting screws.
- 80-4F – Surface mounted keeper and mounting screws.

Applications

Series 80 Deadlocks are designed for use on cell doors, corridor doors, dormitory doors and dayrooms. They are also suited for storage rooms or large control cabinets. Specify handing when ordering.

Standard Features

- Mechanical operation – Locks and unlocks by key. For key removal in locked position only, specify a single wing escutcheon on lock mounting or access door.
- Durable case – Ductile iron case,3/8” thick steel cover.
- Corrosion resistance – Working parts are corrosion resistant.
- Heavy-duty lever tumblers – Spring temper brass activated by heavy phosphor bronze springs. Precision fit to locking fence.
- Large, solid deadbolt – Zinc plated steel with three hardened steel roller pins to resist sawing, 2” x 3/4”. Projects 1/2” when retracted.
- Bolt throw – 3/4”
- Bolt projection – 1/2” or 1-1/4” standard.
- Investment-cast key cylinder – One-piece, bronze alloy with paracentric keyway.
- Finish – Zinc plated for corrosion resistance.

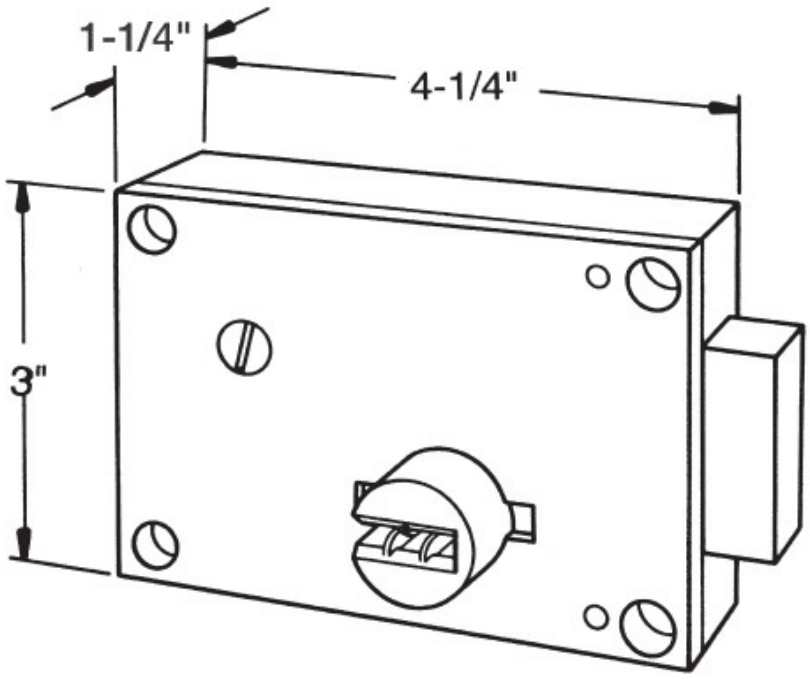
Optional Features

- High security – Six-tumbler model offers greater pick resistance.
- Mounting – Hollow metal, plate or grille mounting.

82 Five tumbler model,keyed cover side
82-6 Six tumbler model, keyed cover side
86 Five tumbler model, keyed both sides
86-6 Six tumbler model, keyed both sides

Mechanical Locks
80 Deadlock

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



Specify circled swing number when ordering.

MOUNTING PLATE HINGE SIDE

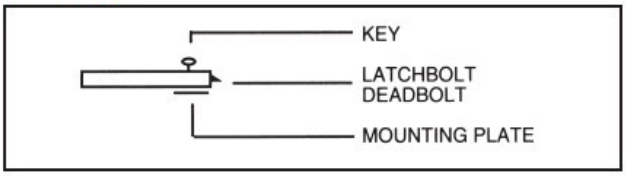
KEYED BOTH SIDES	① RH	LH ②
KEYED HINGE SIDE	⑤ RH	LH ⑥
KEYED STOP SIDE	⑨ LH	RH ⑩

MOUNTING PLATE STOP SIDE

KEYED BOTH SIDES	③ LH	RH ④
KEYED STOP SIDE	⑦ LH	RH ⑧
KEYED HINGE SIDE	⑪ RH	LH ⑫

1-1/4" projection required with stop-side mounting.

LEGEND



Mechanical Locks

FGM-80 Fence Gate Lock/Mounting

Accessories

(must be specified separately)

- 80-4H – Fence gate lock keeper, zinc plated finish.
- Pull(s) – #2 Pulls may be added to one or both sides of the mounting.

Applications

FGM-80 Deadlocks are designed for use in outdoor applications to secure swinging fence gates. Specify handing when ordering.

Standard Features

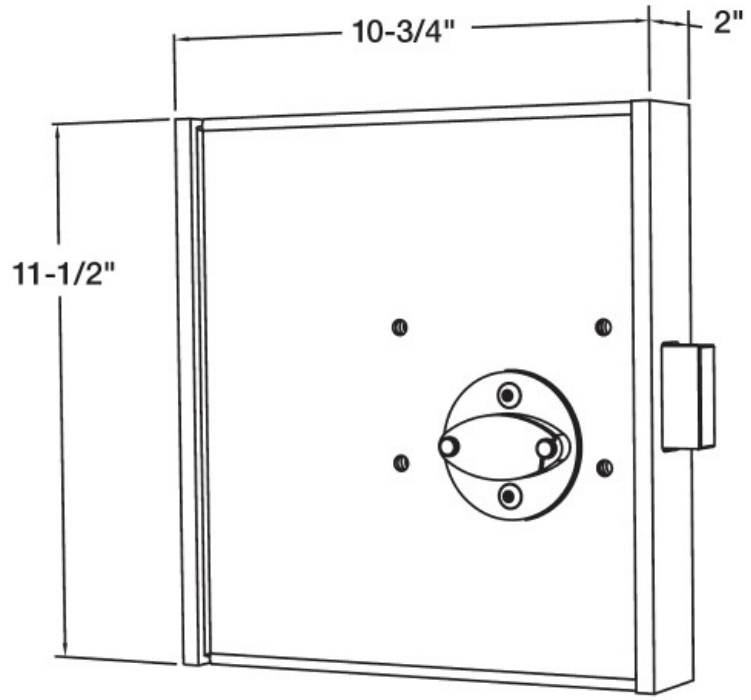
- Mechanical operation – Locks and unlocks by key. For key removal in locked position only, specify single wing escutcheon.
- Durable construction – Ductile iron case, 3/8” thick steel cover.
- Tamper resistant mounting – Formed from 7 gauge steel with break-off-head security screws.
- Corrosion resistance – Working parts are corrosion resistant.
- Heavy duty lever tumblers – Spring temper brass, activated by heavy phosphor bronze springs. Precision fit to the locking fence.
- Large, solid deadbolt – Zinc plated steel, 2” x 3/4” with three hardened steel roller pins to resist sawing. Bolt is flush with mounting when retracted.
- Bolt throw – 3/4”
- Investment-cast key cylinder – One-piece, bronze alloy with paracentric keyway.
- Finish – All exposed lock components and mounting hardware zinc plated for exterior application.
- Supplied – With front bar and cylinder shield one or both sides, and zinc plating.

FGM-82 Five tumbler model keyed cover side
FGM-82-6 Six tumbler model, keyed cover side
FGM-86 Five tumbler model, keyed both sides
FGM-86-6 Six tumbler model, keyed both sides

Mechanical Locks

FGM-80 Fence Gate Lock/Mounting

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



Specify circled swing number when ordering.

MOUNTING PLATE HINGE SIDE

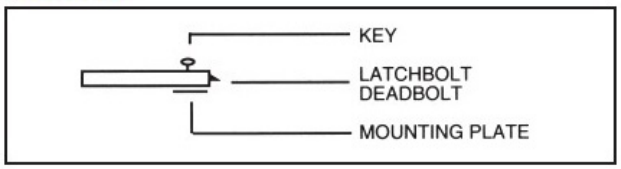
KEYED BOTH SIDES	1 RH	LH 2
KEYED HINGE SIDE	5 RH	LH 6
KEYED STOP SIDE	9 LH	RH 10

MOUNTING PLATE STOP SIDE

KEYED BOTH SIDES	3 LH	RH 4
KEYED STOP SIDE	7 LH	RH 8
KEYED HINGE SIDE	11 RH	LH 12

1-1/4" projection required with stop-side mounting.

LEGEND



Mechanical Locks
30/30D Locks

Optional Features

- Mounting – Hollow metal, grille or plate door mounting.

Accessories

(must be specified separately)

- 30-4B – Mortise keeper with mounting screws.
- 30-4BL – Mortise keeper with switch
- and mounting screws. 30-4DB – Mortise keeper with dustbox and mounting screws.
- 30-4F – Surface mounted keeper and mounting screws.

32 Keyed cover side
36 Keyed both sides
32D Keyed cover side
36D Keyed both sides

Applications

Series 30 Deadlatches are recommended for sliding doors requiring slam-locking, such as corridor or entrance doors. Doors should never be left unattended in open position. Not for use on cells. Specify handing.

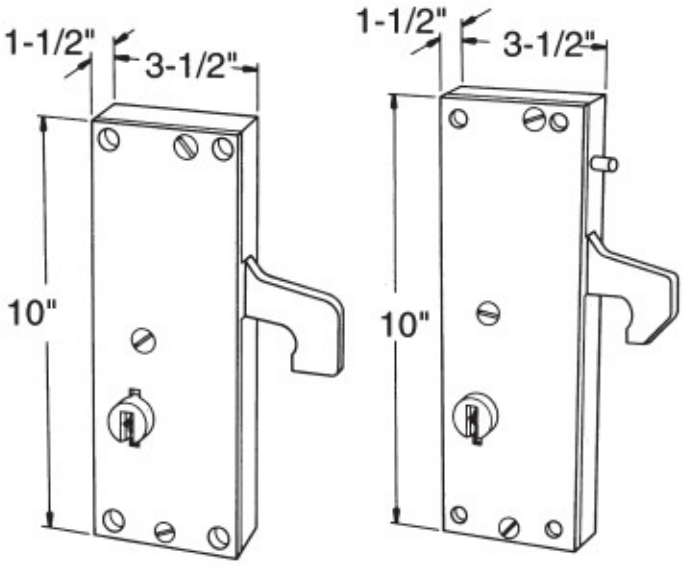
Series 30D Deadlocks are recommended for use on sliding cell, corridor or entrance doors. Ideal for doors left open or unattended at times.

Standard Features

- Automatic deadlocking (Series 30) – Deadlocks on door closure, unlocks by key. Key is removable in the latch position only.
- Mechanical operation (Series 30D) – Deadlocks and unlocks by key. Key is removable in both locked and unlocked condition.
- Durable case – Ductile iron case with 3/16” thick steel cover.
- Corrosion resistance – Working parts are corrosion resistant.
- Heavy-duty lever tumblers – 5 spring-temper brass tumblers, activated by heavy phosphor-bronze springs. Precision fit to locking fence.
- Large, solid hookbolt – Zinc plated, hardened steel, 1/2” thick.
- Bolt movement – 5/8” lift.
- Investment-cast key cylinder – One-piece bronze alloy with paracentric keyway.
- Finish – Zinc plated.

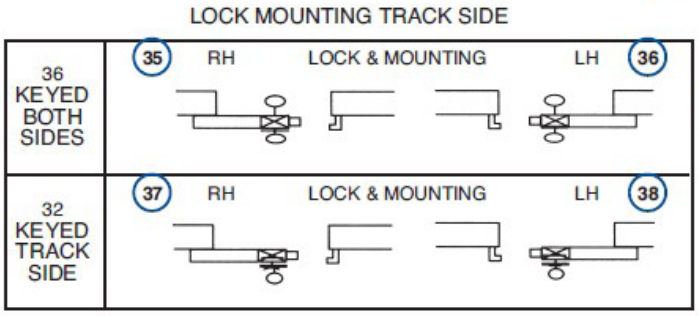
Mechanical Locks
30/30D Locks

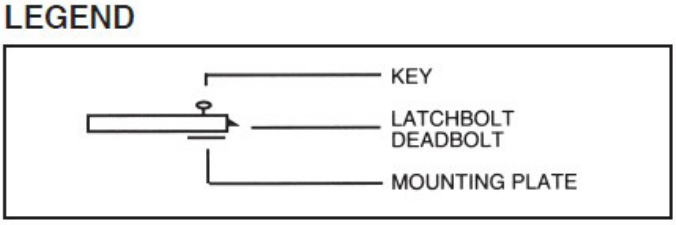
Note: Dimensions are for information and planning purposes only, and should not be used as templates.



30D Deadlock 30 Deadlatch

Specify circled swing number when ordering.





Mechanical Locks
70 Deadlatch

Optional Features

- Mounting – Hollow metal, grille or plate.

Accessories

(must be specified separately)

- 70-4B – Mortise strike with mounting screws.
- 70-4BL – Mortise strike with switch/ mounting screws.
- 70-4DB – Mortise strike with dust box and mounting screws.
- 70-4F – Surface-mounted keeper and mounting screws.

Applications

Series 70 Deadlatches are recommended for heavily used doors such as those in dayrooms, recreation areas or dining rooms. Convenient slam-locking. Specify handing.

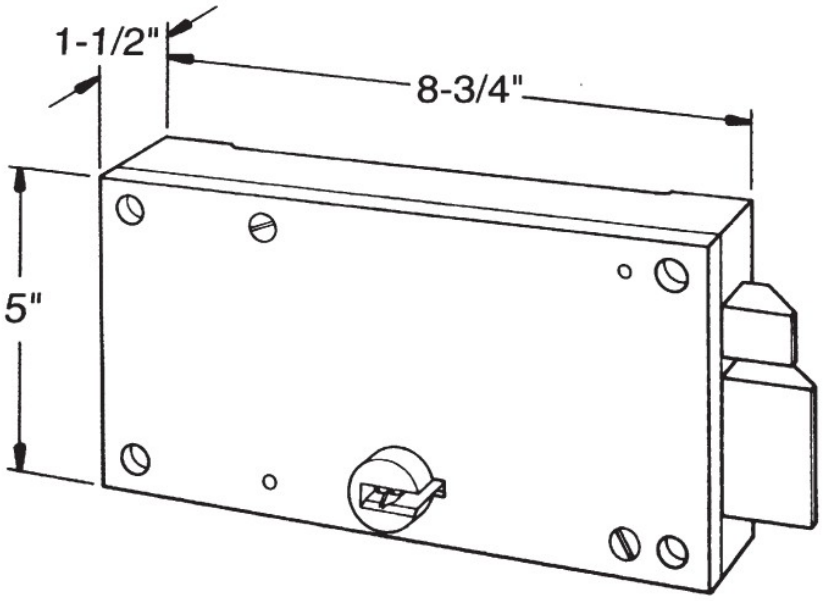
Standard Features

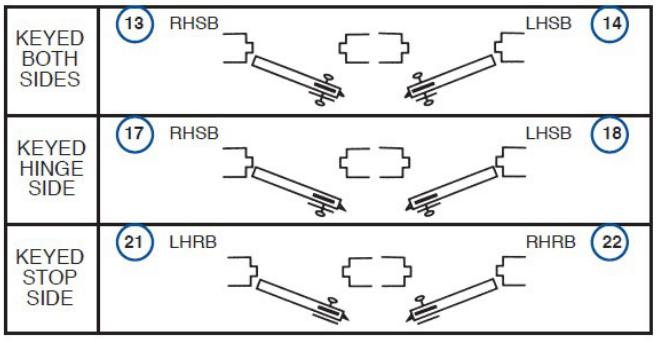
- Automatic deadlocking – Locks when door is closed; unlocks by key.
- Deadlock actuator – 3/4” x 3/4” cold drawn steel with zinc plated finish.
- Durable case – Ductile iron case with 3/8” steel cover.
- Corrosion-resistance – Working parts are corrosion-resistant.
- Heavy duty lever tumblers – 5 spring-temper brass tumblers, activated by heavy phosphor-bronze springs. Precision fit to locking fence.
- Large, solid latchbolt – Zinc plated steel, 2” x 3/4” with two hardened steel roller pins to resist sawing. Bolt projects 1/2” when retracted.
- Bolt throw – 3/4”
- Bolt projection – 1/2” and 1-1/4” are standard. Specify one.
- Investment-cast key cylinder – One-piece bronze alloy with paracentric keyway.
- Finish – Zinc plated.

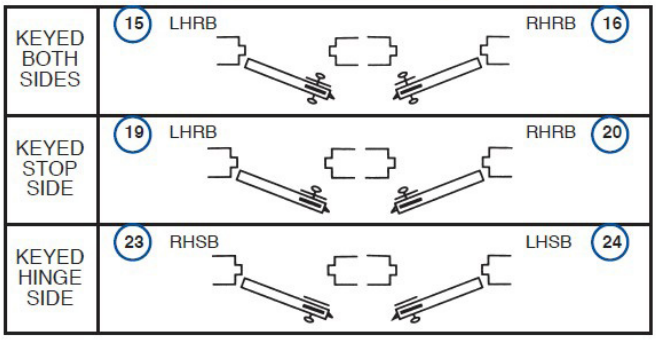
72 Keyed cover side
76 Keyed both sides

Mechanical Locks
70 Deadlatch

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

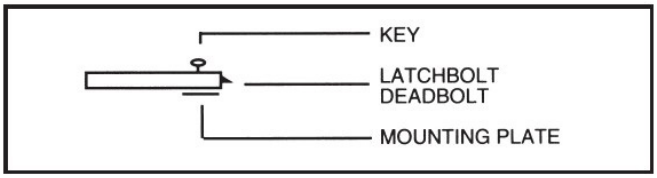






1-1/4" projection required with stop-side mounting.

LEGEND



Mechanical Locks

60/60K Latch and Key Operated Deadlocks

Applications

Series 60 Locks are ideal for use on corridor, cell, dining room or recreational area doors. Series 60K Locks with knobs are suited for administrative or infirmary areas where staff personnel require the convenience of knob operation combined with slamlocking and the security of a deadlock. Specify handing.

Standard Features

- Knob operation (Series 60K) – Knob will operate latchbolt unless deadlocked.
- Mechanical operation – Locks and unlocks by key. A half-turn of the key unlocks, and a full turn of the key, in the opposite direction, deadlocks the latchbolt. Key is removable in the deadlocked and latched position.
- Automatic snap-locking – Automatically when door is closed.
- Durable case – Ductile iron case with 3/8” thick steel cover.
- Corrosion-resistance – Working parts are corrosion-resistant.
- Heavy-duty lever tumblers – 5 spring-temper brass tumblers, activated by heavy phosphor-bronze springs. Precision fit to locking fence.
- Large solid latchbolt – Zinc plated steel, 2” x 3/4” with two hardened steel roller pins to resist sawing. Bolt projects 1/2” when retracted.
- Bolt throw – 3/4”
- Bolt projection – 1/2” or 1-1/4” are standard. Use 1-1/4” projection for stop side mounting.
- Investment-cast key cylinder – One-piece bronze alloy with paracentric keyway.
- Knobs and roses (Series 60K) – US26D finish attached to a 3/8” square spindle by exposed set screws on one side, and a concealed crosspin on the other. Knobs are provided for both sides unless specified otherwise.
- Finish (Series 60K) – Trim satin chrome US26D,

Optional Features

- Mounting – Hollow metal, grille or plate.
- Single knob (60K Series)
- Safety knob set (60K Series) – Specify “SK” for safety knob one side. “Double SK” for safety knob on both sides.

(must be specified separately)

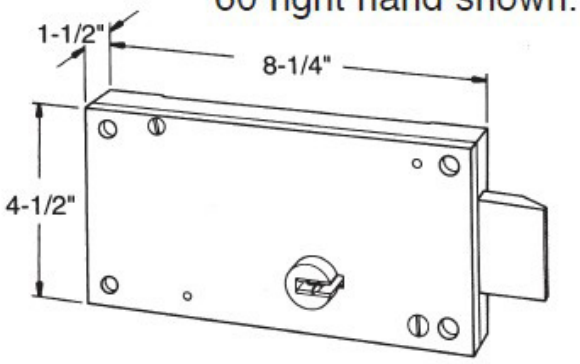
- 60-4B – Mortise strike and mounting screws.
- 60-4BL – Mortise strike with switch and mounting screws.
- 60-4DB – Mortise strike with dust box and mounting screws.
- 80-4F – Surface-mounted keeper and mounting screws.

62 Keyed cover side
66 Keyed both sides
62K Knob model keyed cover side
66K Knob model keyed both sides

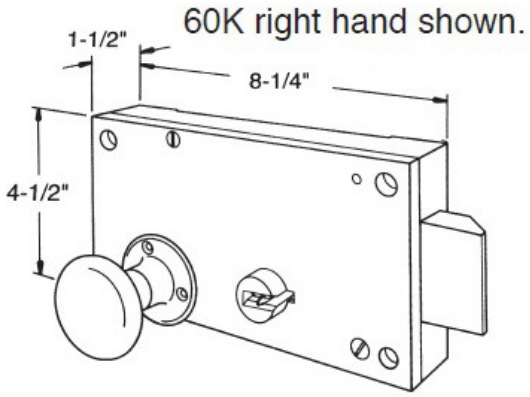
Mechanical Locks
60/60K Latch and Key Operated Deadlocks

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

60 right hand shown.



60K right hand shown.



Specify circled swing number when ordering.

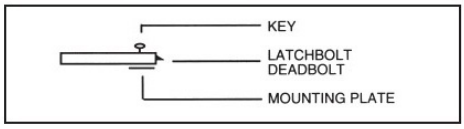
MOUNTING PLATE HINGE SIDE

KEYED BOTH SIDES	(13) RHSB	LHSB (14)
KEYED HINGE SIDE	(17) RHSB	LHSB (18)
KEYED STOP SIDE	(21) LHRB	RHRB (22)

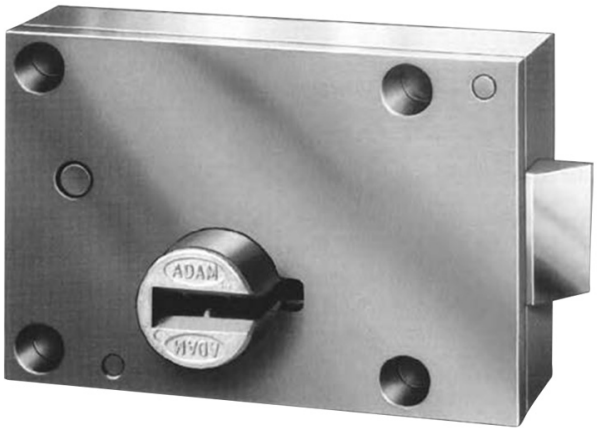
MOUNTING PLATE STOP SIDE

KEYED BOTH SIDES	(15) LHRB	RHRB (16)
KEYED STOP SIDE	(19) LHRB	RHRB (20)
KEYED HINGE SIDE	(23) RHSB	LHSB (24)

LEGEND



Mechanical Locks
17 Latch



Optional Features

- Hollow metal mounting - Combined with 1/2” bolt projection for in-the door pocket mounting. Requires 17-HM mounting.
- Turn piece – Key not required. Specify “17-TP”.
- Square bolt – Flush and 1/2” projection stainless steel square bolt for special applications. Specify “17-D” for square bolt deadlatch.
- Deadbolt action – Mechanism modified to act like a deadbolt. Key removable in locked position only.
- Specify “17-DW” for square bolt deadbolt.

Accessories

(must be purchased separately)

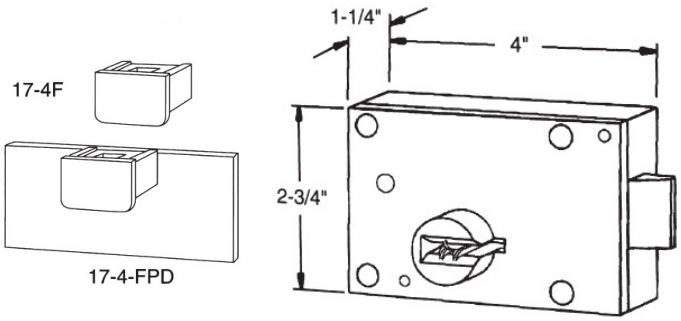
- 17-4F – Keeper/pull for surface mounted lock.
- 17-4FPD – Plate food pass door with keeper (specify 3FP hinges separately).
- 17-HM – Hollow metal mounting for hollow metal food pass door. Requires 1/2” bolt projection.

Applications

Number 17 Latches are designed for use above hinged food pass doors, on observation panels or other small doors. Not for use on full size doors. Specify handing.

Standard Features

- Mechanical operation – Unlocks by key.
- Automatic snap-locking – When door is closed.
- Durable case – Ductile iron case with 1/4” steel cover.
- Corrosion resistance – Working parts are corrosion resistant.
- Heavy-duty lever tumblers – 5 spring-temper brass tumblers, activated by heavy phosphor bronze springs. Precision fit to locking fence.
- Large solid latchbolt – Investment cast, stainless steel 1” x 7/16” flush when retracted.
- Bolt throw – 7/16”
- Investment-cast key cylinder – One piece bronze alloy with paracentric keyway.
- Security screws – Four 1/4-20 x 1-1/2” flat head security screws for mounting.
- Finish – Zinc plated.



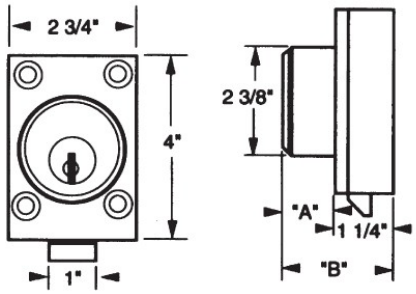
Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Mechanical Locks
17-M Latch

Accessories

(must be purchased separately)

- 17-4F – Keeper/pull for surface mounted lock.
- 17-4FPD – Food pass door with 17-4 keeper/pull (specify 3FP hinges separately).



Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Applications

Ideal for food-pass doors, small wicket doors or observation panels. 17-M0 and 17-M1 latches are designed to mount above the door and snap-lock instantly on closure. These latches are specified with either the 110 Mogul, or exclusive 190 Maxi-Mogul® cylinder as needed. When Maxi-Mogul® cylinders are specified, level 1 keying will be provided.

Standard Features

- Maxi-Mogul® key cylinder – Provides maximum pick resistance. UL437 listed.
- Case – Ductile iron.
- Corrosion-resistant – Working parts are corrosion-resistant.
- Latchbolt throw – 7/16”. Flush when retracted, or 1/2” projection for hollow metal pocket installation.
- Large, solid latchbolt – Investment cast stainless steel, 1” x 7/16”.
- Security screws – Supplied with four 1/4-20 x 1-1/2” flat head security screws.
- Finish – Zinc plated.

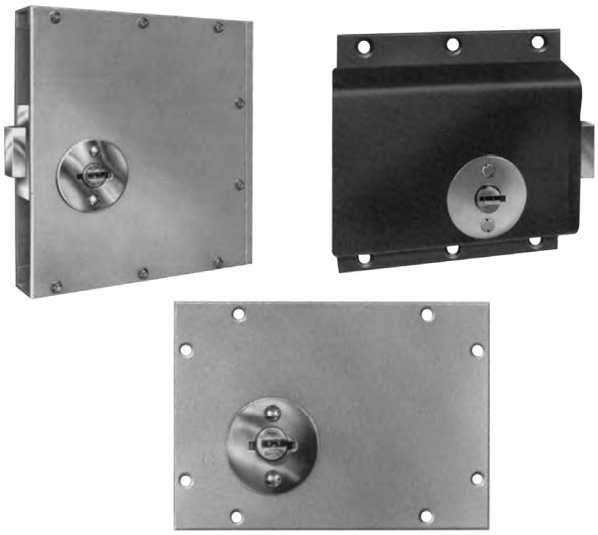
Optional Features

- Square bolt – Flush and 1/2” projection stainless steel square bolt for special applications.
- 110 Mogul key cylinder – For existing applications.
- Cylinder finish – US26D
- Hollow metal mounting – Combined with 1/2” bolt projection for in-the door pocket mounting.
- Keying – Master keying is available.

17-M0 110 Mogul cylinder - keyed cover side
17-M1 190 Maxi-Mogul® - keyed cover side

Dimension	Maxi-Mogul	Mogul
A	1-3/8”	1-1/8”
B	2-5/8”	2-3/8”

Mechanical Locks
Lock Mountings



Models Available

- Model G – For weldment to flat horizontal bars of a grille door. The lock is installed to the inside of the back plate, and covered by a front plate secured by break-off-head security screws. Specify lock type, handing and thickness of grille door flat bar. Specify with Series 30, 60, 70 or 80 Locks

- Model P – For rim mounting a lock to the surface of a plate door. The lock installs to the inside of the mounting, and is then attached to the door. Specify handing. Specify with Series 10, 30, 60, 70 or 80 Locks.

Description

Detention locks should be enclosed in steel coverings to prevent tampering and abuse. They are removable for service.

Standard Features

- Rugged construction – 7 gauge steel.
- Keying flexibility – May be furnished for locks keyed one or two sides.
- Bolt projection – Flush after installation.
- Supplied – With one No. 1
- Escutcheon and all necessary mounting screws.
- Finish – Zinc plated.

Optional Features

Cylinder shields can be ordered with mountings.

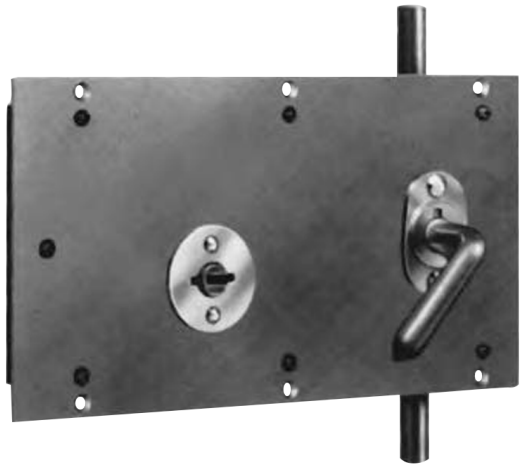
Models Available

- Model HM – A specially designed plate to which a lock is installed. The plate then covers the lock pocket in a hollow metal door. This mounting is not removable when the door is locked. In stop-side applications, a longer bolt projection is required, and must be specified. Specify lock type, handing and hollow metal door thickness. A 1/8” spacer is used between lock and mounting for 2” thick doors.
  Specify with Series 10, 17, 30, 60, 70 or 80 Locks.

Dimensional Data

LOCK MOUNTING	MODEL G			MODEL HM			MODEL P		
	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH	HEIGHT	WIDTH	DEPTH
With 10 Series lock	N/A	N/A	N/A	5”	7”	3/16”	7-1/4”	5-1/4”	1-7/16”
With 30 Series lock	11-1/2’	10-3/8”	2”	12”	6-1/2”	3/16”	13-1/2”	6-11/16”	1-3/4”
With 60 Series lock	11-1/2’	10-3/8”	2”	7”	10”	3/16”	8-1/2”	9-3/8”	1-3/4”
With 70 Series lock	11-1/2’	10-3/8”	2”	7”	10-3/8”	3/16”	9-3/4”	9-7/8”	1-3/4”
With 80 Series lock	11-1/2’	10-3/8”	2”	7”	10”	3/16”	8-1/2”	9-3/8”	1-3/4”
With 17-M Latch	K/A	N/A	N/A	5”	5-1/2”	3/16”	N/A	N/A	N/A

Mechanical Locks
3600 and 3800 Cremone Bolts



Standard Features

-
- Large solid bolt – Zinc plated steel, 2” x 3/4”. Flush when retracted.
- Bolt throw – 3/4” at all three points.
- Investment-cast key cylinder – One-piece bronze alloy with paracentric keyway.
- Rugged lever handles – Steel handles and escutcheons on both sides.
- Supplied – with head and foot bolts, foot bolt receptacle(s), Escutcheon(s), and necessary mounting screws.
- Finish – Zinc plated.

Applications

Cremone locks are designed for maximum security on corridor, entrance, or armory doors which may be subject to mass attack. Specify for use with hollow metal or grille doors. Specify handing.

Standard Features

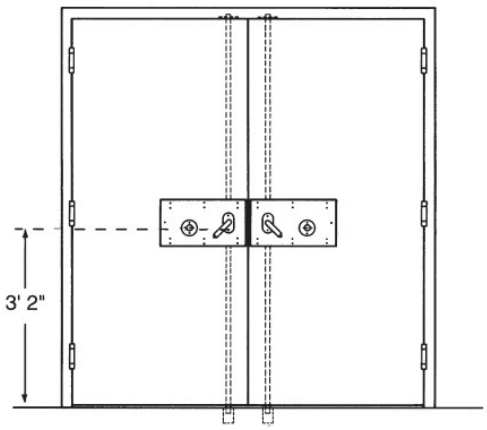
- Series 3600 mechanical operation – Active door unlocks with a half-turn of the key. A full turn of the key in the opposite direction, deadlocks the center latchbolt, which also deadlocks the head and foot bolts.
- Series 3800 mechanical operation – Active door is operated by a key which deadlocks the deadbolt, head and foot bolts. Inactive door is operated from its own cylinder which deadlocks head and foot bolts.
- Lever handle operation – Head and foot bolts are operated by the handles, except when they are in deadlocked condition.
- Door types – Models available for use with 2” or thicker grille doors plug welded to flat, horizontal bars. In hollow metal doors 1-3/4” thick or more, bolt set mounts in a pocket with head and foot bolt concealed within door. (Specify door thickness when ordering.)
- Head and foot bolts – 7/8” diameter steel. (Specify overall door opening height when ordering.)
- Durable case and cover – 7 gauge steel.
- Corrosion resistance – Working parts are corrosion resistant.
- Heavy-duty lever tumbler – 5 spring-temper brass tumblers, activated by heavy phosphor bronze springs. Precision fit to locking fence.

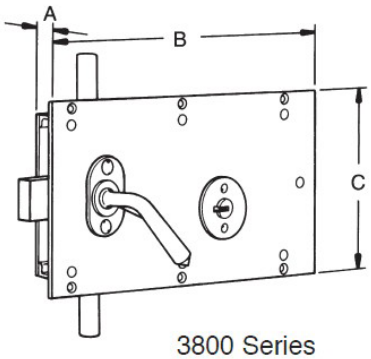
3620 Keyed one side
3660 Keyed both sides
3820 Keyed one side
3860 Keyed two sides

Mechanical Locks
3600 and 3800 Cremone Bolts

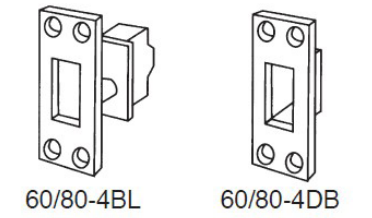
Accessories

- 60/80-4B – Mortise center bolt keeper and mounting screws for single door only.
- 60/80-4BL – Mortise center bolt keeper with switch and mounting screws for single door only.
- 60/80-4DB – Mortise center bolt keeper with dustbox and mounting screws for single door only.
- 3S-4B – Mortise head bolt keeper and mounting screws for single or double doors.
- 3S-4BL – Mortise head bolt keeper with switch and mounting screws for single or double doors.
- 3S-FBR – Additional foot bolt receptacle may be used for hold-open position.

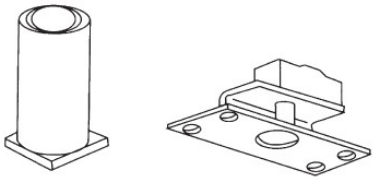




3800 Series
Active leaf



60 Series have strike lips.



Model Selection Chart

Model	Description	Keyed	Door Type
36/3821G	Singled	One Side	Grille
36/3822G	Double	One Side	Grille
36/3861G	Single	Two Sides	Grille
36/3862G	Double	Two Sides	Grille
36/3821HM	Single	One Side	Hollow Metal
36/3822HM	Double	One Side	Hollow Metal
36/3861HM	Single	Two Sides	Hollow Metal
36/3862HM	Double	Two Sides	Hollow Metal

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

Specify circled swing number when ordering.

3600 SERIES LATCHBOLT AND 3800 SERIES DEADBOLT CREMONES
For Single and Double Doors

REMOVABLE COVER STOP SIDE

KEYED BOTH SIDES	(78)	3861 3661	LH LHRB	DEADBOLT LATCHBOLT	RH RHRB	(79)
KEYED STOP SIDE	(82)	3821 3621	LH LHRB	DEADBOLT LATCHBOLT	RH RH	(83)
KEYED BOTH SIDES	(86)	3862 3662	LH LHRB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED BOTH SIDES	(88)	3862 3662	RH RHRB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED STOP SIDE	(90)	3822 3622	LH LHRB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED STOP SIDE	(92)	3822 3622	RH RHRB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A

A INDICATES ACTIVE SIDE

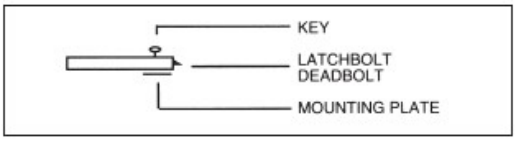
REMOVABLE COVER HINGE SIDE

KEYED BOTH SIDES	(80)	3861 3661	RH RHSB	DEADBOLT LATCHBOLT	LH LHSB	(81)
KEYED HINGE SIDE	(84)	3821 3621	RH RHSB	DEADBOLT LATCHBOLT	LH LHSB	(85)
KEYED BOTH SIDES	(87)	3862 3662	RH RHSB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED BOTH SIDES	(89)	3862 3662	LH LHSB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED HINGE SIDE	(91)	3822 3622	RH RHSB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A
KEYED HINGE SIDE	(93)	3822 3622	LH LHSB	DEADBOLT LATCHBOLT	ACTIVE ACTIVE	A

A INDICATES ACTIVE SIDE

NOTE: The above illustrations show latchbolts for all models. 3800 Series are deadbolt locks, 3600 Series are latchbolt locks.

LEGEND



Mechanical Locks
Keeper Switches

Description

Electrical indication switches monitor the locked or unlocked condition of a door.

Applications

Specify for use with any mechanical lock. The switch installs behind the keeper or strike, and provides indication of door status to a remote control console.

NOTE: Used alone, this switch may be made to create a false signal by depressing the switch button manually. The possibility of a false signal should be eliminated by installing a door position switch and wiring it in series with the indication switch. In this application, a secure signal can be produced only after three conditions have been met:

1) the indication switch button is depressed.
2) the lockbolt is extended.
3) the door is closed.

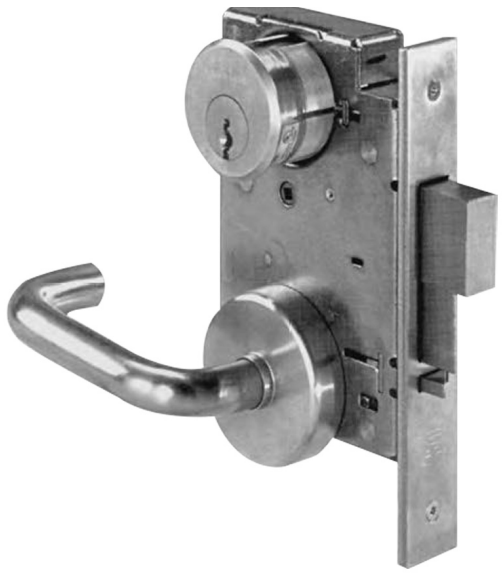
Model Available

Model No.	Description
10-40BL	10 Series deadlocks
30-4BL	30/30D Series Deadbolt
60-4BL	60 Series Deadlock
70-4BL	70 Series Deadlatches
80-4BL	80 Series Deadlocks
3S-4BL	3800 Series Cremone Headbolts
ASSW-104A	9300 Series

Electrical Specifications

Switch Type	Rating
Single-pole, Double-throw (SPDT)	15 amps @ 125 , 250 VAC .5 amp @ 125 VDC .25 amp @ 250 VDC

Mechanical Locks
D9300 Maxi-Mortise



Optional Features

- Strike switch – Strike-mounted indication switch for electrically monitored systems.
- Cylinder – Available with 110 Mogul or 190 Maxi-Mogul® key cylinder provides maximum pick-resistance and matches keying on your job. Maxi-Mogul® UL437, Level 1 listed.
- ASSA or MEDECO Mogul cylinders – Available to complement keying systems.

Applications

An extra heavy-duty mortise lock for use on swinging doors in minimum/ medium security cell or public areas of detention facilities. Available in a variety of latchbolt, deadbolt and deadlocking latchbolt styles.

Standard Features

- Fits ANSI door preparation – Standardized installation in hollow metal doors modified to accommodate lock body thickness of 1-1/8".
- Door thickness – Doors must be 1-3/4" to 2-1/2" thick.
- Armored front – 8" x 1-1/4" steel, 10 gauge.
- High strength case and cover – 12 gauge.
- Corrosion-resistant working parts – Internal working parts are stainless steel or zinc chromated steel.
- Durable hubs – Solid stainless steel construction, on the square.
- Spindle – 11/32" cold drawn steel.
- Latchbolt – One-piece investment cast 17-4 stainless steel, hardened, 3/4" throw.
- Deadbolt – One-piece investment cast 17-4 stainless steel, hardened, 1" throw.
- Latchbolt size – 11/16" x 1-1/4".
- Deadbolt size – 11/16" x 1-1/2".
- Reversible – Locks are field reversible. Handing, if known, should be specified upon ordering.
- Key cylinder – Price includes mogul cylinder.
- Screws – Tamper-resistant mounting screws.
- Tamper-resistant – All bolts, including the auxiliary latchbolt, are fully tunneled to help prevent jamming of the mechanism with foreign material.
- Strike – Supplied with curved-lip strike having 1-1/4" lip length and dust box. Buffed stainless steel finish only.
- Trim finish – US32D (ANSI/BHMA 630).

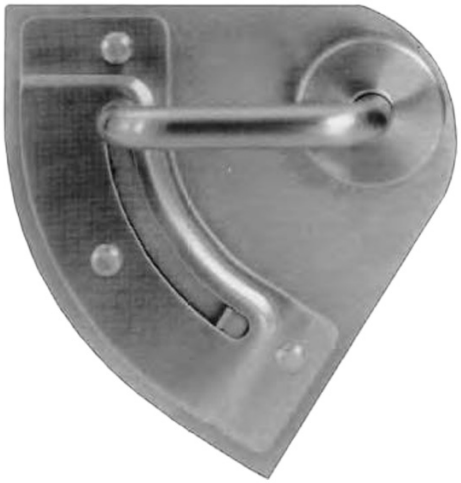
Mechanical Locks
D9300 Maxi-Mortise

Trim Designs

- Knobs – standard trim US26D. Specify KR for knob and rose trim with lock.
- Dimensions: 2-1/4" diameter.
- Safety knob: Specify “SK” knob and side installed on.
- Lever handles – all Lever handles must be installed with track.
- Material: Stainless steel.
- Dimensions: 3/4" diameter x 4-11/16" long.
- Roses – Material: Stainless steel.
- Dimensions: 2-11/16" diameter, concealed trim design.
- LeverTrak® Handle Guide Sets – LT and LTE Handle Guide Sets must be specified. The track prevents damage to mortise locks from over-travel of the handle.
- Material: Stainless steel.

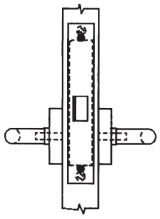
KR - Knob handle and rose

SK- Safety knob (inside)

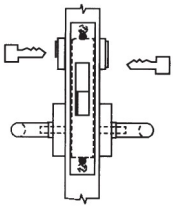


Mechanical Locks
D9300 Maxi-Mortise

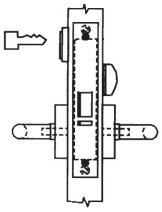
D9300 Series Lock Functions



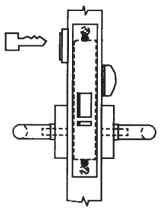
D9301 (F01) – Passage or closed latch
- Either handle operates the latchbolt at all times.



D9314 (F14) – Store door lock
- Latchbolt operated by handles either side.
- Deadbolt operated by key both sides.

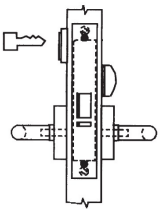


D9304 (F04) – Entry lock
- Latchbolt operated by handle either side except when outside handle is made inoperative by inside thumbturn.
- When outside handle is locked, latchbolt operated by key outside, handle inside.
- Auxiliary deadlatch.

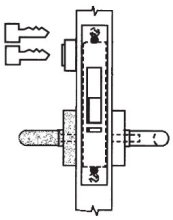


D9335 (F15 Mod.) – Modified hotel guest lock
- Latchbolt operated by handle inside, or by key outside.
- Deadbolt operated by thumbturn inside,or by key outside.
- Outside handle always inactive.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

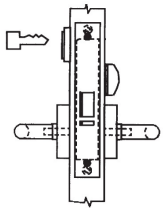


D9305 (F05) – Classroom lock
- Latchbolt operated by handle either side,- except when outside handle is locked by key outside.
- Inside handle is always operative.
- Auxiliary deadlatch.



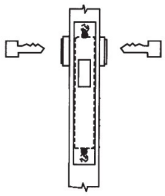
D9336 – Inmate keyed lock
- LCK cylinder outside.
- LCK operates latchbolt only.
- Master key operates latch and deadbolt from outside.
- Outside handle always inactive.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

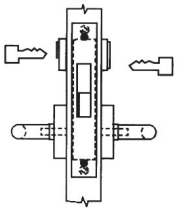


D9307 (F07) – Storeroom or closet lock
- Latchbolt operated by key outside, handle inside.
- Outside handle inoperative at all times.
- Auxiliary deadlatch.

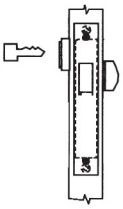
SHADED HANDLE DENOTES RIGID.



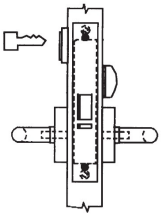
D9316 (F16) – Deadlock
- Deadbolt is operated by key either side.



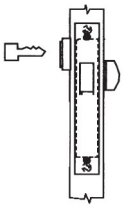
D9309 (F09) – Apartment, exit or toilet lock
- Latchbolt operated by handle either side
- except when outside handle is locked by key from inside.
- When outside handle is locked, latchbolt is operated by key outside, handle inside.
- Auxiliary deadlatch.



D9317 (F17) – Deadlock
- Deadbolt is operated by key outside,
- thumbturn inside.



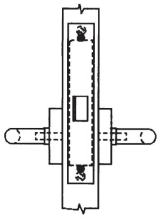
D9313 (F13) – Dormitory or exit lock
- Latchbolt operated by lever from either side.
- Deadbolt projected by key outside, and thumbturn inside.
- Both bolts retracted by inside lever.



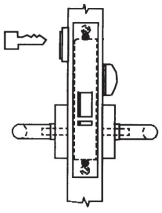
D9318 (F18) – Deadlock
- Deadbolt is operated by key from outside only.

Mechanical Locks
D9300 Maxi-Mortise

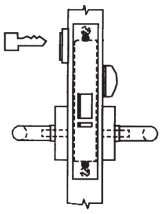
D9300 Series Lock Functions



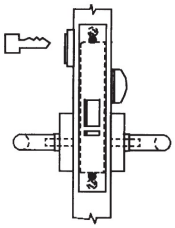
D9319 (F19) – Privacy, bedroom or bath lock
- Latchbolt operated by handle either side.
- Deadbolt operated by thumbturn inside, emergency release outside.
- Inside handle retracts both bolts.



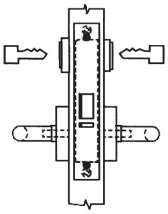
D9320 (F20) – Apartment corridor door lock
- Latchbolt operated by lever either side, except when deadbolt is projected.
- Deadbolt operated by key outside or thumb-turn inside.
- Key operates both bolts.
- Lever inside retracts both bolts.
- Latchbolt is deadlocked when deadbolt is projected.
- When deadbolt is retracted, lever is un-locked.



D9321 (F21) – Entrance or storeroom door lock
- Latchbolt is operated by handle either side.
- Deadbolt operated by key outside, thumbtu-rn inside.

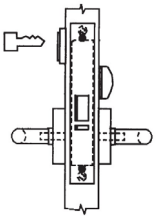


D9371 – Deadlatch
- Deadlatch operated by key outside.
- Auxiliary deadlatch.
- SHADED HANDLE DENOTES RIGID.

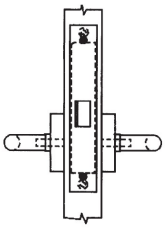


D9372 – Deadlatch
- Deadlatch operated by key both sides.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

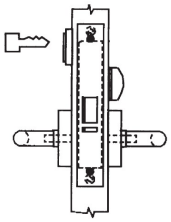


D9373 – Deadlatch
- Deadlatch operated by key outside, handle inside.
- Auxiliary deadlatch.



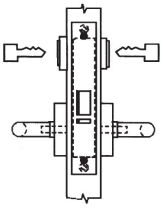
D9374 – Deadlatch
- Deadlatch operated by handle or knob inside.
- Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.



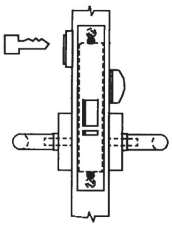
D9375 – Deadlatch
- Deadlatch operated by key outside.
- Key locks inside handle. Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.



D9376 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks inside handle. Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

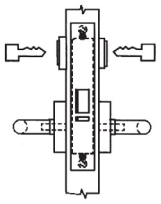


D9377 – Deadlatch
- Deadlatch operated by key outside.
- Key locks both handles.
- Auxiliary deadlatch.

Mechanical Locks
D9300 Maxi-Mortise

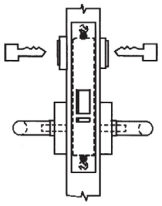
D9300 Series Lock Functions

Outside Inside



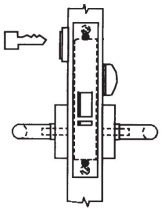
D9378 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks both handles.
- Auxiliary deadlatch.

Outside Inside

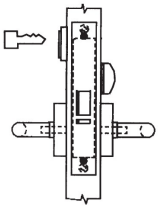


D9363 – Latch and Deadbolt
- Deadbolt operated by key both sides.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.

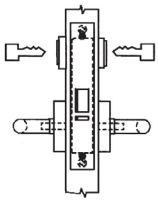


D9379 – Deadlatch
- Deadlatch operated by key outside.
- Key locks inside handle.
- No outside handle.
- Auxiliary deadlatch.

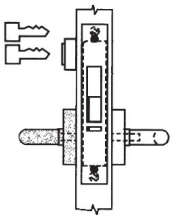


D9364 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Deadbolt operated by thumbturn inside.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.

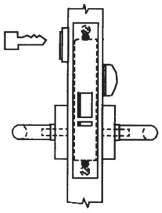


D9380 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks inside handle.
- No outside handle.
- Auxiliary deadlatch.

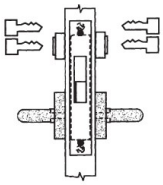


D9365 – Latch and Deadbolt
- Deadbolt operated by key and LCK* cylider outside.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.

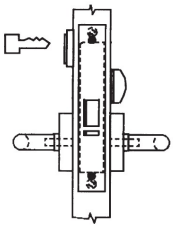


D9361 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Latch operated by both handles.



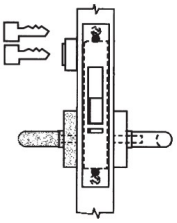
D9366 – Latch and Deadbolt
- Deadbolt and latch operated by key and LCK* cylinder both sides.

SHADED HANDLE DENOTES RIGID.



D9362 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.



D9367 – Latch and Deadbolt
- Deadbolt and latch operated by key and LCK* cylinder outside.
- Deadbolt and latch operated by thumbturn inside.

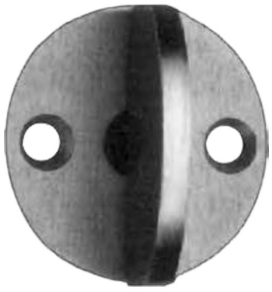
SHADED HANDLE DENOTES RIGID.

Mechanical Locks
D9300 Maxi-Mortise

Cylinder Data

- Maxi-Mogul® key cylinders – D9300 Series Mortise Locks are provided with Maxi-Mogul® key Cylinders, six pin tumbler. Keys are sold separately and registered at the factory.
- Cylinder collar – An adjustable cyli der collar will be provided to suit the cyl-inder length and door thickness when both locks and cylinders are ordered. If not specified,rings will be for 1-3/4" thick doors.
- Trim / cylinder accessories – The fol-lowing trim items will be provided per the lock function specified.
- LCK (limited control key) – Modifi-cation for Models D9336, D9365, D9366, D9367. Factory provided cylinder is modified to allow change key a limited rotation to retract the latchbolt. Master key is unlimited and will operate both latch and deadbolt.
- Thumbturn and escutcheon – Fur-nished with Models D9304, D9313, D9317, D9320, D9321, D9335, D9364 and D9367. Removable thumbturn furnished with Model D9319. Supplied with tamper-resis-tant No. 6 x 3/8" screws.

Maxi-Mogul® Key Cylinder



Thumbturn with Escutcheon

Maxi-Mogul® Key

Mechanical Locks
D9300 Maxi-Mortise

Strikes

D9300 Series Locks are supplied with a curved lip strike having a 1-1/4" lip length for use with doors 1-3/4" to 2" thick. Buffed stainless steel finish only.

- Strike with indication switch – For electric monitoring.
- Strike box – Wrought steel, zinc plated, reversible for installation with
- flat or curved-lip strike.
- Special lip lengths – Strikes are installed 3/8" above the vertical centerline of the lock. 1-1/4" lip length is standard. 1-1/2" lip length is optional for doors from 2-1/8" to 2-1/4" thick.

Handing

Handing of locks should be indicated when ordering. Guidelines shown on page C46 will assist in determining the hand. Door must be addressed from the key side, the cylinder side or the secured side.

918-D-S
Striek Switch

918-L ANSI
Latchbolt-only strike
RH/LHR shown

918-LD ANSI
Latchbolt/ deadbolt strike
RH/LHR shown

918-D ANSI
Deadbolt strike
RH/LHR shown

918-DNL
Deadbolt strike without lip

900-BOX
Dust box

Mechanical Locks

A9300 Maxi-Mortise

Optional Features

- Strike switch – Strike-mounted indication switch for electrically monitored systems.

Applications

An extra heavy-duty mortise lock for use on swinging doors in minimum security cell or public areas of detention facilities. Available in a variety of latchbolt, deadbolt and deadlocking latchbolt styles.

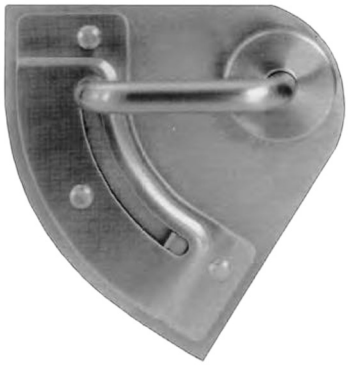
Standard Features

- Fits ANSI door preparation – Standardized installation in hollow metal doors modified to accommodate lock body thickness of 1-1/8".
- Door thickness – Doors must be 1-3/4" to 2-1/2" thick.
- Armored front – 8" x 1-1/4" steel, 10 gauge.
- High strength case and cover – 12 gauge.
- Corrosion-resistant working parts – Internal working parts are stainless steel or zinc chromated steel.
- Durable hubs – Solid stainless steel construction, on the square.
- Spindle – 11/32" cold drawn steel.
- Latchbolt – One-piece investment cast 17-4 stainless steel, hardened, 3/4" throw.
- Deadbolt – One-piece investment cast 17-4 stainless steel, hardened, 1" throw.
- Latchbolt size – 11/16" x 1-1/4".
- Deadbolt size – 11/16" x 1-1/2".
- Reversible – Locks are field reversible. Handing should be specified upon ordering.
- Key cylinder – Furnished with
- Builders Hardware 6-pin tumbler key high security cylinders.
- Screws – Tamper-resistant mounting screws.
- Tamper-resistant – All bolts, including the auxiliary latchbolt, are fully tunneled to help prevent jamming of the mechanism with foreign material.
- Strike – Supplied with curved-lip strike having 1-1/4" lip length and dust box. Buffed stainless steel finish only.
- Trim finish – US32D.

Mechanical Locks
A9300 Maxi-Mortise

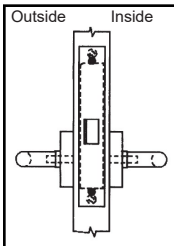
Standard Features

- Knobs – standard trim US26D. Specify KR for knob and rose trim with lock.
- Dimensions: 2-1/4" diameter.
- Safety knob: Specify “SK” knob and side installed on.
- Lever handles – all lever handles must be installed with track.
- Material: Stainless steel.
- Dimensions: 3/4" diameter x 4-11/16" long.
- LeverTrak® Handle Guide Sets – LT and LTE Handle Guide Sets must be specified. The track prevents damage to mortise locks from overtravel of the handle.
- Material: Stainless steel.
- Roses
  Material: Stainless steel.
  Dimensions: 2-11/16" diameter, concealed trim design.
- Secure escutcheon – SV 1/4" solid stainless steel trim plates through bolt the door. Offered only with BuildersHardware cylinder and A9300 Series Lock.EXAMPLE: SV-A9361 x SK inside
  IMPORTANT NOTE: The secure escutcheon trim package shown here is available only with a Builders Hardware cylinder (A9300 Series Lock). This trim package is not available with a Maxi-Mogul® Cylinder.

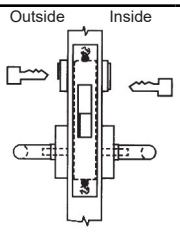


Mechanical Locks
A9300 Maxi-Mortise

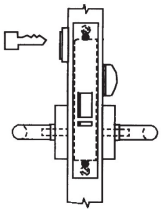
D9300 Series Lock Functions



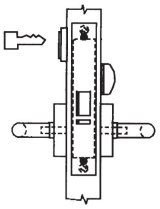
A9301 (F01)– Passage or closed latch
- Either handle operates the latchbolt at all times.



A9314 (F14) – Store door lock
- Latchbolt operated by handles either side.
- Deadbolt operated by key both sides.

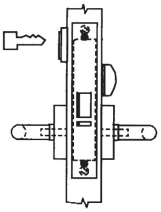


A9304 (F04) – Entry lock
- Latchbolt operated by handle either side except when outside handle is made inoperative by inside thumbturn.
- When outside handle is locked, latchbolt operated by key outside, handle inside.
- Auxiliary deadlatch.

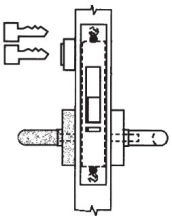


A9335 (F15 Mod.)– Modified hotel guest lock
- Latchbolt operated by handle inside, or by key outside.
- Deadbolt operated by thumbturn inside,or by key outside.
- Outside handle always inactive.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

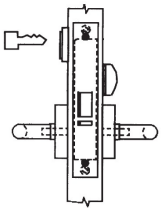


A9305 (F05) – Classroom lock
- Latchbolt operated by handle either side,- except when outside handle is locked by key outside.
- Inside handle is always operative.
- Auxiliary deadlatch.



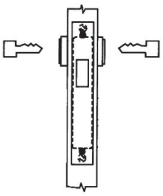
A9336 – Inmate keyed lock
- LCK cylinder outside.
- LCK operates latchbolt only.
- Master key operates latch and deadbolt from outside.
- Outside handle always inactive.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

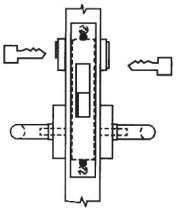


A9307 (F07) – Storeroom or closet lock
- Latchbolt operated by key outside, handle inside.
- Outside handle inoperative at all times.
- Auxiliary deadlatch.

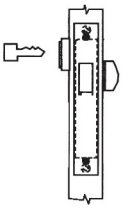
SHADED HANDLE DENOTES RIGID.



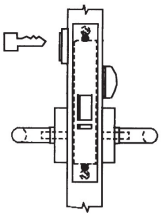
A9316 (F16) – Deadlock
- Deadbolt is operated by key either side.



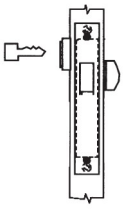
A9309 (F09) – Apartment, exit or toilet lock
- Latchbolt operated by handle either side
- except when outside handle is locked by key from inside.
- When outside handle is locked, latchbolt is operated by key outside, handle inside.
- Auxiliary deadlatch.



A9317 (F17) – Deadlock
- Deadbolt is operated by key outside,
- thumbturn inside.



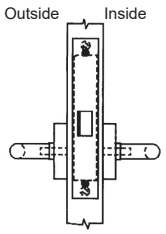
A9313 (F13) – Dormitory or exit lock
- Latchbolt operated by lever from either side.
- Deadbolt projected by key outside, and thumbturn inside.
- Both bolts retracted by inside lever.



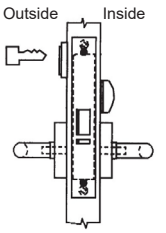
A9318 (F18) – Deadlock
- Deadbolt is operated by key from outside only.

Mechanical Locks
A9300 Maxi-Mortise

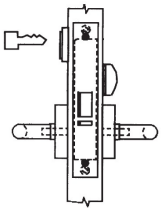
D9300 Series Lock Functions



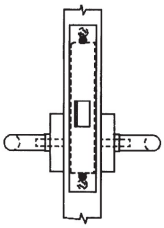
A9319 (F19) – Privacy, bedroom or bath lock
- Latchbolt operated by handle either side.
- Deadbolt operated by thumbturn inside, emergency release outside.
- Inside handle retracts both bolts.



D9373 – Deadlatch
- Deadlatch operated by key outside, handle inside.
- Auxiliary deadlatch.

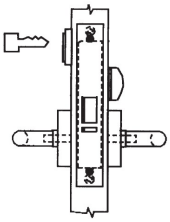


A9320 (F20) – Apartment corridor door lock
- Latchbolt operated by lever either side, except when deadbolt is projected.
- Deadbolt operated by key outside or thumb-turn inside.
- Key operates both bolts.
- Lever inside retracts both bolts.
- Latchbolt is deadlocked when deadbolt is projected.
- When deadbolt is retracted, lever is un-locked.



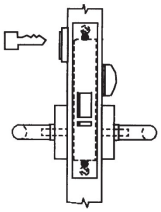
A9374 – Deadlatch
- Deadlatch operated by handle or knob inside.
- Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

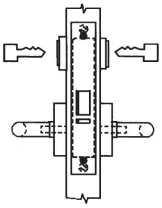


A9375 – Deadlatch
- Deadlatch operated by key outside.
- Key locks inside handle. Outside handle rigid.
- Auxiliary deadlatch.

SHADED HANDLE DENOTES RIGID.

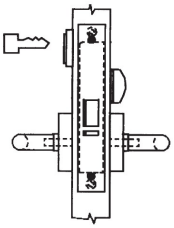


A9321 (F21) – Entrance or storeroom door lock
- Latchbolt is operated by handle either side.
- Deadbolt operated by key outside, thumbtu-rn inside.

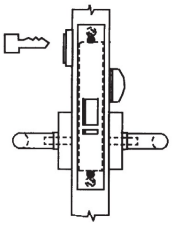


A9376 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks inside handle. Outside handle rigid.
- Auxiliary deadlatch.

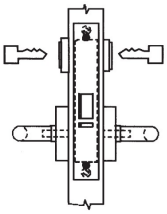
SHADED HANDLE DENOTES RIGID.



A9371 – Deadlatch
- Deadlatch operated by key outside.
- Auxiliary deadlatch.
- SHADED HANDLE DENOTES RIGID.



A9377 – Deadlatch
- Deadlatch operated by key outside.
- Key locks both handles.
- Auxiliary deadlatch.

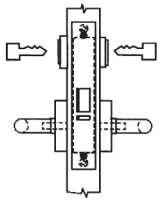


A9372 – Deadlatch
- Deadlatch operated by key both sides.
- Auxiliary deadlatch.

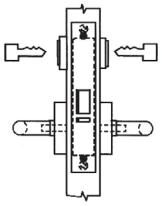
SHADED HANDLE DENOTES RIGID.

Mechanical Locks
A9300 Maxi-Mortise

D9300 Series Lock Functions

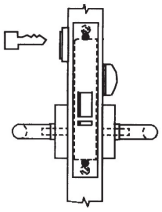


A9378 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks both handles.
- Auxiliary deadlatch.

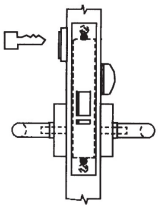


A9363 – Latch and Deadbolt
- Deadbolt operated by key both sides.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.

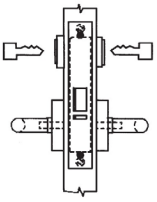


A9379 – Deadlatch
- Deadlatch operated by key outside.
- Key locks inside handle.
- No outside handle.
- Auxiliary deadlatch.

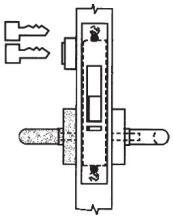


A9364 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Deadbolt operated by thumbturn inside.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.

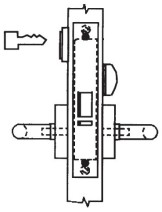


A9380 – Deadlatch
- Deadlatch operated by key both sides.
- Key locks inside handle.
- No outside handle.
- Auxiliary deadlatch.

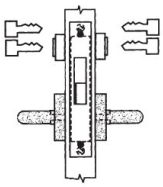


A9365 – Latch and Deadbolt
- Deadbolt operated by key and LCK* cylider outside.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.

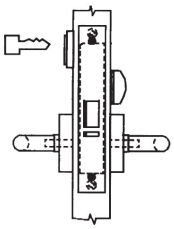


A9361 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Latch operated by both handles.



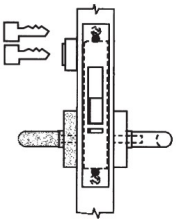
A9366 – Latch and Deadbolt
- Deadbolt and latch operated by key and LCK* cylinder both sides.

SHADED HANDLE DENOTES RIGID.



A9362 – Latch and Deadbolt
- Deadbolt operated by key outside.
- Latch operated by inside handle.

SHADED HANDLE DENOTES RIGID.



A9367 – Latch and Deadbolt
- Deadbolt and latch operated by key and LCK* cylinder outside.
- Deadbolt and latch operated by thumbturn inside.

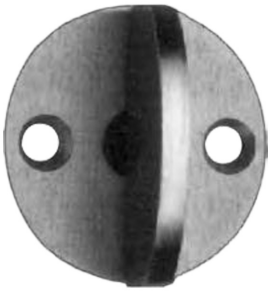
SHADED HANDLE DENOTES RIGID.

Mechanical Locks
A9300 Maxi-Mortise

Cylinder Data

- Standard cylinders – A9300 Series Mortise Locks are provided with high security six-pin tumbler mortise cylinders 1-1/8" long. Provided with two keys.
- Customer-supplied cylinders and compression ring – Customer provided cylinders must be equipped with a Schlage “L” type (clover-leaf) Cam and must be 1-1/8" long.
- Cylinder and blocking rings – Will be provided to suit the cylinder length and door thickness when both locks and cylinders are ordered. If not specified, rings will be for 1-3/4" door thickness.
- LCK (limited control key) – Modification for Models A9336, A9365, A9366, A9367. Factory provided cylinder is modified to allow change key a limited rotation to retract the latchbolt. Master key is unlimited and will operate both latch and deadbolt. NOTE: LCK not available with removable core cylinders.
- Optional feature – Removable core cylinders available on request.
- Trim accessories – The following trim items will be provided:
- Thumbturn and escutcheon – Furnished with Models A9304, A9313, A9317, A9320, A9321, A9335, A9364 and A9367.
  Removable thumbturn furnished with Model A9319.
  Supplied with tamper-resistant No. 6 x 3/8" screws. Wood screws also available on request.

Maxi-Mogul® Key Cylinder



Thumbturn with Escutcheon

Maxi-Mogul® Key

Mechanical Locks
A9300 Maxi-Mortise

Strikes

A9300 Series Locks are supplied with ANSI curved lip strikes having a 1-1/4" lip length, for use with doors 1-3/4" to 2" thick. Buffed stainless steel finish only. Strike is handed to match lock and door. When ordering strikes separately, specify handing of lock.

- Strike with indication switch – For electrical monitoring.
- Strike box – Wrought steel, zinc plated, reversible for installation with flat or curved-lip strike.
- Special lip lengths – Strikes are installed 3/8" above the vertical centerline of the lock. 1-1/4" lip length is standard. 1-1/2" lip length is optional for doors from 2-1/8" to 2-1/4" thick.

Handing

Handing of locks should be indicated when ordering. Door must be addressed from the key side, the cylinder side or the secured side.

918-D-S
Striek Switch

918-L ANSI
Latchbolt-only strike
RH/LHR shown

918-LD ANSI
Latchbolt/ deadbolt strike
RH/LHR shown

918-D ANSI
Deadbolt strike
RH/LHR shown

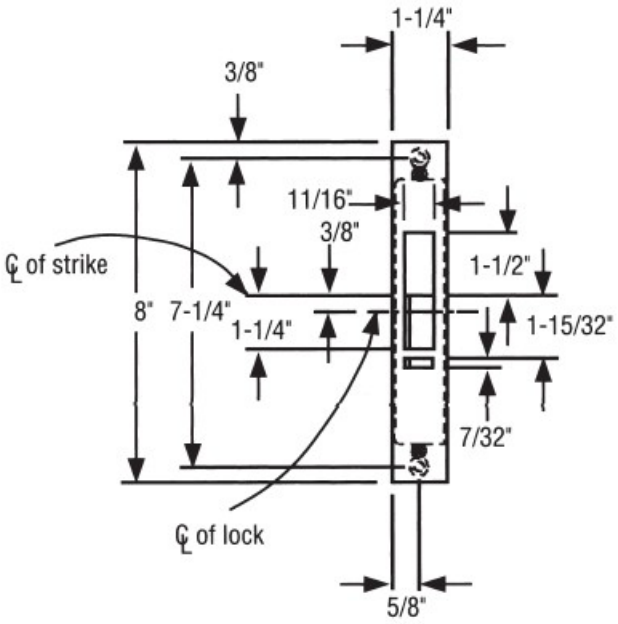
918-DNL
Deadbolt strike
without lip

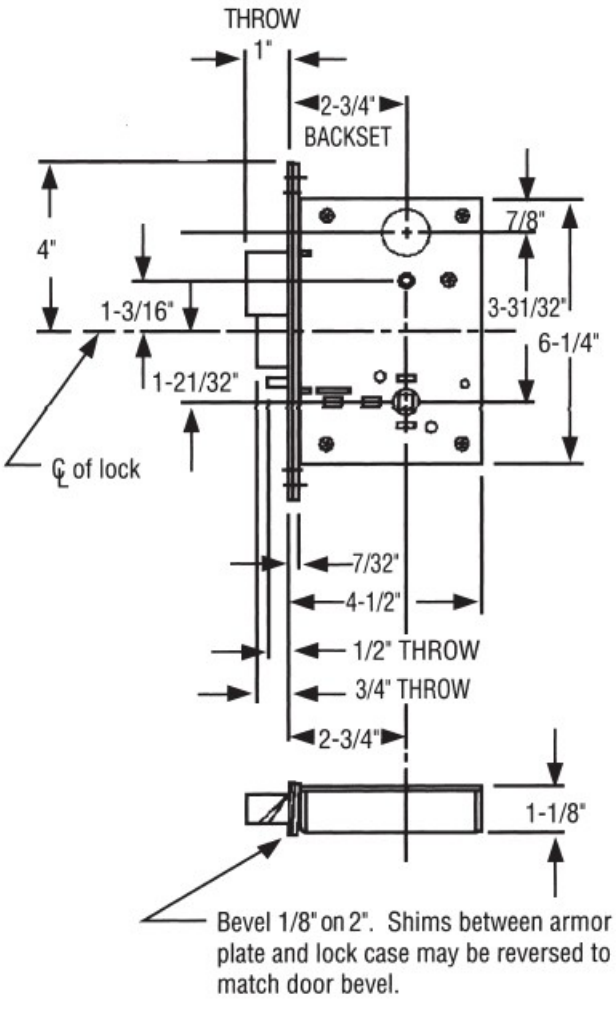
900-BOX
Dust box

Mechanical Locks
A9300 Maxi-Mortise

Dimensional Data

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



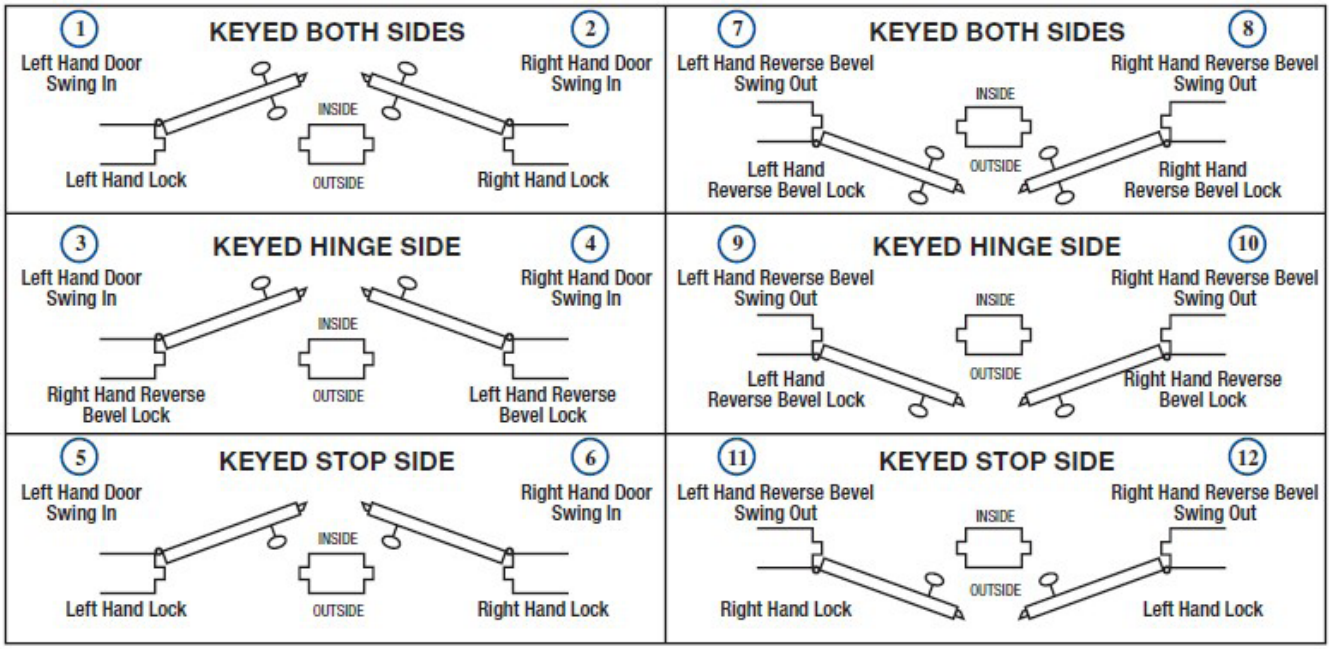


9300 Lock Conversation Chart

Fansi Number	Fansi Name	Latch-bolt	Dead-bolt	Dead-latch	Handle	Outside Key Cylinder	Handle	Inside Key Cylinder	Thumbturn
Group 3 - Latch and Deadbolt									
9361	(112K Lock)	X	X		Active	Operates Deadbolt	Active		
9362	(102-10 Lock)	X	X		Inactive	Operates latch & deadbolt	Active		
9363	(112-10 Lock)	X	X		Inactive	Operates latch & deadbolt	Active	Operates latch & deadbolt	
9364	(112-11 Lock)	X	X		Inactive	Operates latch & deadbolt	Active		Operates latch & deadbolt
9365*	(112-12 Lock)	X	X		Inactive	MK operates latch & deadbolt	Active		
9366*	(112-13 Lock)	X	X		Inactive	MK operates latch & deadbolt	Inactive	MK operates latch & deadbolt	
9367*	(112-14 Lock)	X	X		Inactive	MK operates latch & deadbolt	Inactive		Operates latch & deadbolt
Group 4 - Deadlocking Latch									
9371	(125-1-07 Lock)	X		X	Inactive	Operates latch	Inactive		
9372	(125-1-08 Lock)	X		X	Inactive	Operates latch	Inactive	Operates latch	
9373	(125-1-09 Lock)	X		X	No outside trim	Operates latch	Active		
9374	(125-1-11 Lock)	X		X	Inactive	No cylinder	Active	No cylinder	
9375	(125-4-01 Lock)	X		X	Inactive	Operates latch & locks out knob	Active – Unlocked & locked by key		
9376	(125-4-02 Lock)	X		X	Inactive	Operates latch & locks out knob	Active – Unlocked & locked by key	Operates latch & locks out knob	
9377	(125-4-03 Lock)	X		X	Active – Unlocked & locked by key	Operates latch & locks out knob	Active – Unlocked & locked by key		
9378	(125-4-04 Lock)	X		X	Active – Unlocked & locked by key	Operates latch & locks out knob	Active – Unlocked & locked by key	Operates latch & locks out knob	
9379	(125-4-09 Lock)	X		X	No outside trim	Operates latch & locks out knob	Active – Unlocked & locked by key		
9380	(125-4-10 Lock)	X		X	No outside trim	Operates latch & locks out knob	Active – Unlocked & locked by key	Operates latch & locks out knob	

Mechanical Locks
A9300/A9300 Maxi-Mortise

Specify circled swing number when ordering.



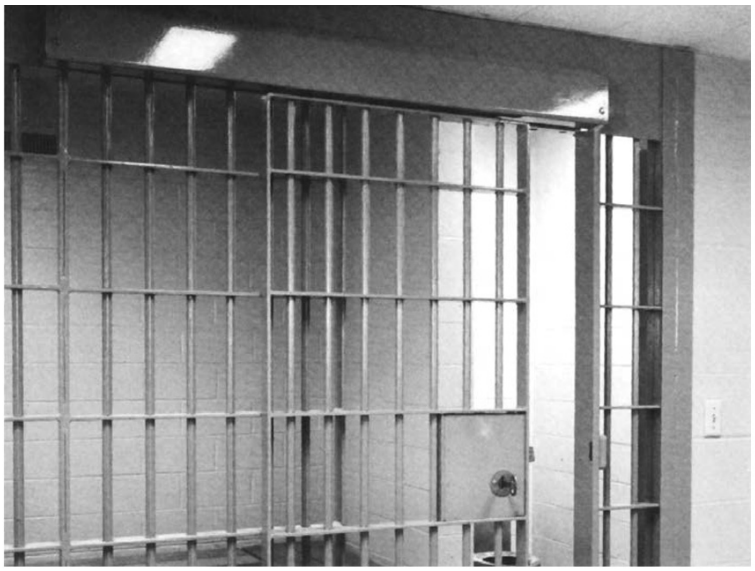
= Indicates keyed side (or sides)
= Hollow metal jamb
= Symbolizes latch bolt

FOLGER ADAM
Established 1905

Folger Adam

Locking Devices

Locking Devices
102 Track and Hanger Sets



Optional Features

- Indication switch – An internal switch monitors position of the door indicating either open or closed status. Add suffix “L” when ordering.
- Door starter – A spring-loaded plunger to push a door slightly open after unlocking. Used with remote controlled electric locks or mechanical locks to move door open once unlocked. Add suffix “S” when ordering.
- Custom sizes – Sets may be constructed for wider and heavier doors. Consult the factory with your specific application.
- Continuous housing – Sets may be built to suit the width of a group of cells and may contain a wire tray for cell line cable connecting locks to a common point at the end of a cell run.
- Door receivers or electric lock columns – Receivers may be supplied to capture the front edge of the door. Lock columns provide a method of mounting a lock, protecting the wiring and installing the door receiver.

Applications

Track and hanger sets may be used for cell or corridor doors on grille, masonry or plate wall construction. Three standard housing sizes suit most door sizes and applications. Specify type of wall for guide mounting.

Standard Features

- Self-contained – Each set consists of a track box and cover, door hanger with adjustable rollers for leveling, door guide and door guide angle.
- Heavy housing construction – 10-gauge steel with cold-finished steel track.
- Sloped-top housing – 10-gauge steel, sloped to prevent hiding of contraband.
- Corrosion-resistance – Working parts resist rust and corrosion.
- Tamper-resistance – Cover provided with tamper-resistant screws.
- Adjustable door rollers – Eccentric bushings permit adjustment to level the door.
- Smooth operation – Door rollers 3-3/4" x 1" thick, zinc plated steel with sealed, anti-friction bearings.
- Adjustable door stop – Steel block attached to track with setscrews.
- Non-handed – Reversible for doors sliding to right or left.
- Finish – USP Primed for painting.
- Rubber bumper – Attached to doorstop, cushions door in the open position to reduce noise.

Locking Devices
102 Track and Hanger Sets

Electrical Characteristics

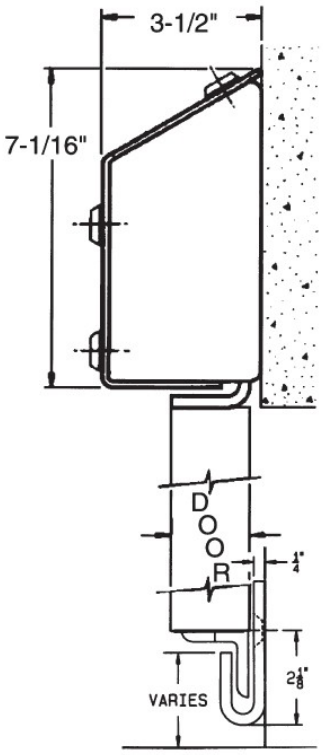
(Indication switch) Single-pole, double-throw (SPDT), 15 amps @ 125 or 250 VDC.

Specifications

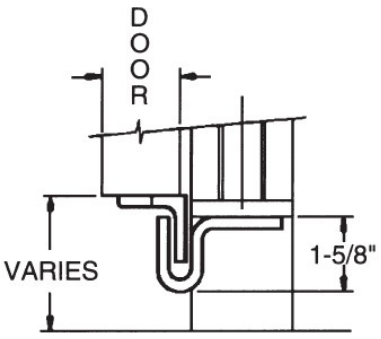
Model	Description	Door Width	Cell Structure	Wight
102-1G	Track/hanger set	2'-0" - 2'-6"	Grille	95
1021M	Track/hanger set	2'-0" - 2'-6"	Masonry	95
102-2G	Track/hanger set	2'-6" - 3'-0"	Grille	110
102-2M	Track/hanger set	2'-6" – 3'-0"	Masonry	110
102-3G	Track/hanger set	3'-0" - 3'-6"	Grille	125
102-3M	Track/hanger set	3'-0" - 3'-6"	Masonry	125

NOTE: When a door width falls between two track set sizes, specify the smaller size.

Note: Dimensions are for information and planning purposes only, and should not be used as templates.



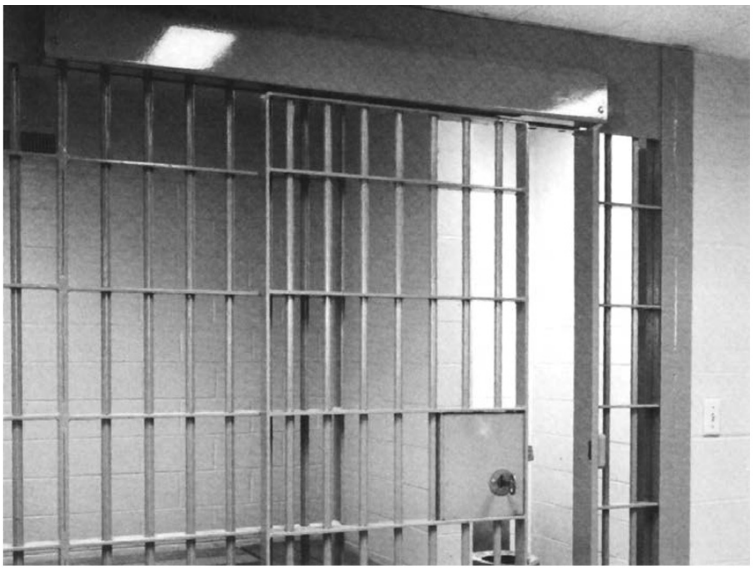
Masonry installation



Grille installation

Locking Devices

2B.3 Sliding Door Locking Device



Standard Features

- Self-contained – A continuous, surface-mounted housing contains the
- Removable end battens- drive and mechanical release mechanisms and wiring.
- Full length wire tray – Simplifies routing of electrical wire/harnesses. Runs the full length of the housing.

Optional Features

- Key switches – May be added in columns or nearby for local electric control.
- Two point locking mechanical release cabinet – A three-position lever handle or crank handle is provided.
- Lever provides:
  1. Electric operation – Door control from a remote location.
  2. Release ports open – Opening of individual release ports. Doors to be individually released at the door with a removable handle. Covers are also individually released from the port.
  3. Emergency unlock – Gang release of all doors in event of emergency or power failure.

Applications

2B.3 devices are applicable to any multiple cell or inmate room door situation. Optional controls provide selective operation of single or groups of doors simultaneously.

Standard Features

- Motor voltage – 120 VAC.
- Plug-type connectors – Simplified wire harness installation.
- Rugged chain drive – Provides consistent action of the door under a variety of conditions and installation variables.
- Heavy duty construction – 2B.3 devices are built for the rigors of maximum security applications.
- Tamper-resistance – Openings in housings are baffled to resist inmate tampering.
- Selective operation – Single or groups of doors may be simultaneously opened or closed and deadlocked.
- Adjustable torque limiter – Simple adjustment of force exerted by the door. May be set between 20 and 50 pounds.
- Sloped-top housing – Resists hiding of contraband. Flat-top housing provided where device must install close to ceiling.
- Fixed hinge cover – Allows maintenance without the need to lift heavy covers off the device.
- Cover lock – Device mechanisms are concealed by an outer cover and unlocked from the release cabinet.
- Automatic deadlocking – When fully closed or open, independent top and bottom locking points on the rear of each door automatically deadlock.
- Indication switch – Monitors the deadlocked condition of both locking points.
- Gang release – From mechanical release cabinet.

Locking Devices
2B.3 Sliding Door Locking Device

Optional Features

- Electrical/mechanical control cabinet – Electrical switches may be ordered to provide control of each door in addition to mechanical function. These switches may be built into the same cabinet as the mechanical levers, or located remotely as required. The following switch functions are available:
  Three-position operating switches – (OPEN-GROUP-CLOSE).
  Group switch – Provides group control (OPEN-OFF-CLOSE).
  Power cut-off switch – Cuts off electrical current to controls.
  Indication lamps – Red and green indicator lamps may be installed with switches to show deadlocked, closed, or open status of each door.
- Special indication lamps – An additional (amber) lamp is available. When used, indication is as follows:
  Red - Locked open.
  Green - Deadlocked closed.
  Amber - Moving, or stopped in midtravel.
- Custom graphic controls – In many cases, it may be desirable to separate electric controls from the mechanical release cabinet located near the cells. For larger installations, or those with particular needs, custom-built control consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- Wire harness – For applications using a series of locking devices, a wire harness(es) may be specified to interconnect terminal strips in the mechanical control/release cabinet to a plug connector at the door operating unit. Simplifies routing of wire, and saves installation cost and time.
- G90 galvanized finish available.

Specifications

Drive System Rate of travel	Opens or closes a 30" door in approximately 6 seconds.
Motor	120 VAC, 60 HZ, 1/20 HP.
Rollar Chain	#41 size.
Hanger and guides:	1/4" thick steel.
Rollers:	Cold formed steel. Rollers are mounted on hardened ball bearings protected by internal grease shields.
Drive Systems Finish	USP.
Housing	7-gauge steel.
Housing Covers	10-gauge steel, hinged to housing.
Vertical Lock Column Houseing	1-1/2" x 2" x 11 gauge steel tubing on solid steel cast bottom.
Wire Tray	16-gauge steel tray.
Front Reciver Column (Optional)	10-gauge steel.
Housing/Covers Finish	USP primed.

Locking Devices

2B.3 Sliding Door Locking Device

Functions

Unit unlocks, opens and deadlocks open, or closes and deadlocks closed, pre-selected individual doors or door groups, via optional electric controls. Gang release is by mechanical release cabinet.

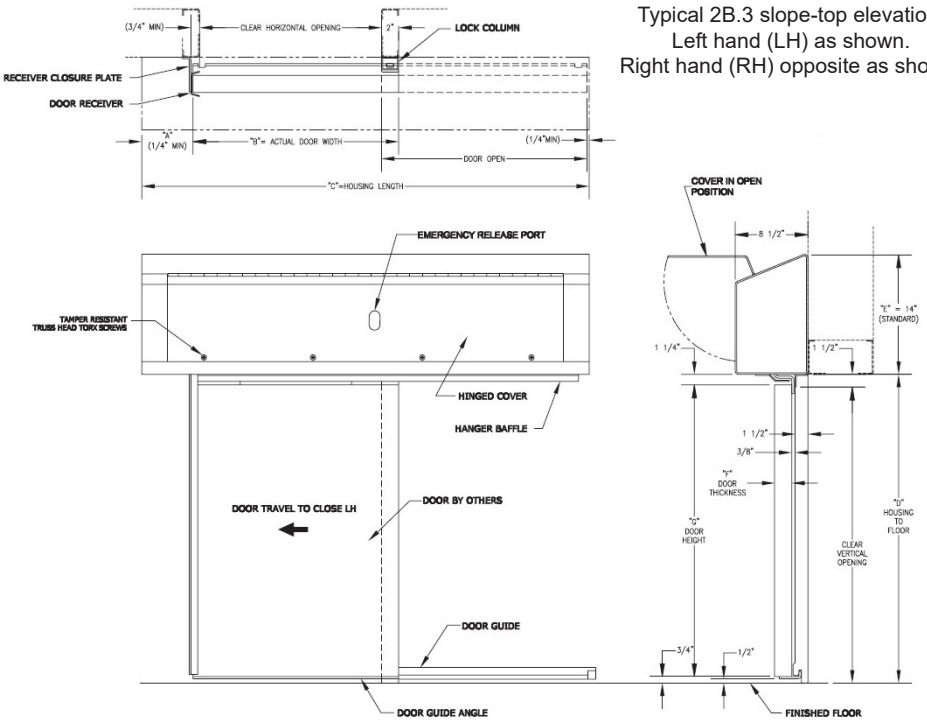
Door movement may be stopped in mid-travel. The door is not freewheeling in the electrical mode. Pressure exerted by a door in travel is factory set at approximately 40 pounds. Force is adjustable between 20 and 50 pounds.

Direction of travel of any individual or selected group of doors may be reversed without interrupting the operation of other doors.

When a single door is blocked, there is no interruption in the operation of any other door in the group. On removal of the blockage, the door will automatically continue movement to the open or closed position.

In event of emergency or power failure, any door may be unlocked manually at the door, and moved by hand without changing the locked status of any other doors.

In event of power failure, doors may be manually opened or closed by sliding the door.



Typical 2B.3 slope-top elevation.
Left hand (LH) as shown.
Right hand (RH) opposite as shown.

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

Locking System

Upon closure, each door automatically deadlocks at two concealed points at the rear edge of the door. Upon opening, each door automatically deadlocks open at the front edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. Components do not project into the door opening.

Locking Devices

3B.2 Sliding Door Locking Device

Optional Features

- Mechanical release cabinet – See page D21-22.
- Key switches – May be added in columns or nearby for local electric control.
- Electrical/mechanical controls – Electrical switches may be specified to provide control of each door in addition to mechanical function. These switches may be built into the same cabinet as the mechanical levers, or located at a remote console, as needs dictate. The following switch functions are available:
  Three-position operating switches – (OPEN-GROUP-CLOSE).
  Group switch – Provides group control (OPEN-OFF-CLOSE).
  Power cut-off switch – Cuts off electrical current to controls.
  Indication Lamps – Red and green indicator lamps may be installed in conjunction with switches to show locked, closed, or open status of each door. When used, the indication is as follows:
  Red – Unlocked, moving or stopped in mid-travel.
  Green - Locked closed.

Applications

3B.2 devices are applicable to multiple cell or inmate room situation. Optional controls provide selective operation of single or groups of doors simultaneously.

Standard Features

- Motor voltage – 120 VAC.
- Rack and pinion gear drive.
- Heavy duty construction – 3B.2 devices are built for the rigors of maximum security applications.
- Tamper-resistance – Openings in housings are baffled to preclude inmate tampering.
- Selective operation – Single or groups of doors may be simultaneously opened, or closed and locked.
- Sloped-top housing – Resists hiding of contraband. Flat-top housing is provided where the device must install close to the ceiling.
- Automatic locking – When fully closed, top and bottom locking points on the rear of each door are forced down into the deadlocked position.
- Indication switch – Monitors the locked condition of both locking points.
- Gang release – From mechanical release cabinet.
- Self-contained – A continuous, surface-mounted housing contains the drive and mechanical release mechanisms and wiring.
- Full length wire tray – Simplifies routing of electrical wire/harnesses. Runs the full length of the housing.
- Terminal strips – All internal components are pre-wired to a terminal strip. The strip is also used for ease of field wiring.

Locking Devices
3B.2 Sliding Door Locking Device

Optional Features

- Custom graphic consoles – In many cases, it may be desirable to separate electric controls from the mechanical release cabinet located near the cells. For larger installations, or those with particular needs, custom-built control consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- Cell line cable – For applications using a series of locking devices, a cell line cable may be specified to interconnect to terminal strips in the mechanical control/release cabinet. Simplifies routing of wire and saves installation cost and time.
- G90 galvanized finish available.

Specifications

Drive System Type	Rack and Pinion.
Rates of Travel	Opens or closes a 2'4" door in 5 seconds.
Motor	120 VAC, 60 HZ, 1/20 HP.
Hanger and guides:	1/4" thick steel.
Rollers:	Steel with ball bearings.
Finish	USP.
Housing	7-gauge steel.
Housing Covers	10-gauge steel,
Vertical Lock Column Houseing	7-gauge steel.
Wire Tray	16-gauge steel tray.
Front Reciver Column (Optional)	10-gauge steel.
Housing/Covers Finish	USP

Locking Devices

3B.2 Sliding Door Locking Device

Functions

Unit unlocks, opens or closes and locks closed pre-selected individual doors or door groups, via optional electric controls. Gang release is via mechanical release cabinet.

Door movement may be stopped in mid-travel, leaving the door in a fixed (non-movable) position. The door must be moved (restarted) electrically or mechanically to the open or closed position to lock.

Direction of movement of any individual door may be reversed without interrupting the movement of any other door in the group.

When a single door is blocked, there is no interruption in operation of any other door in the group. On removal of the blockage, the door will automatically continue to the open or closed position.

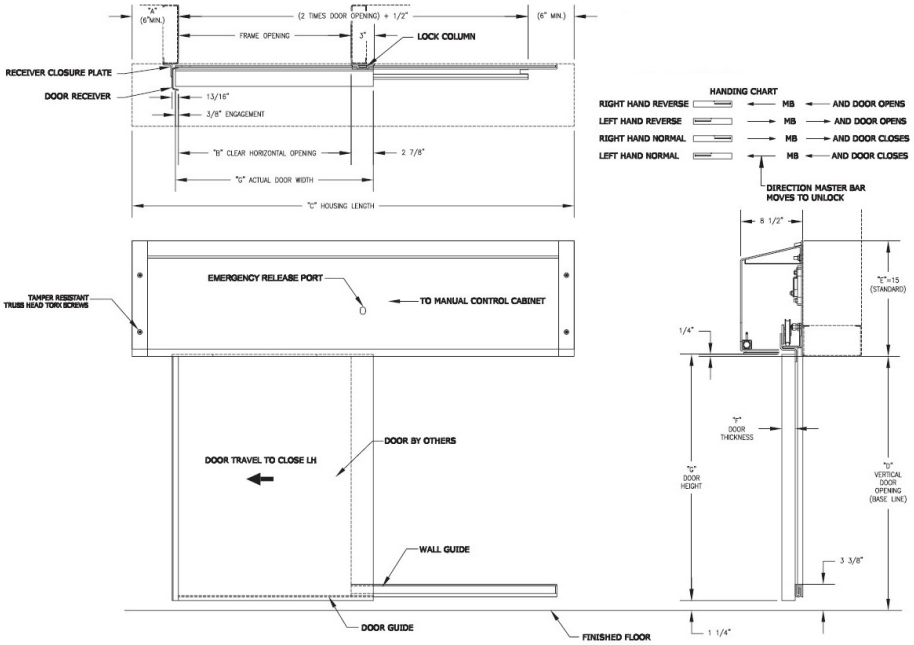
In event of emergency, all doors may be unlocked from the mechanical release cabinet. In mechanical mode, the motor is disengaged from the rack, and doors may be unlocked or relocked using a special tool.

In event of power failure, all doors remain in a fixed position, and must be operated mechanically. Doors are freewheeling when released.

Locking System

Upon closure, each door automatically locks at two concealed points at the rear edge of the door. No locking components are exposed at the front edge of the door where they might be subject to tampering. Components do not project into the door opening.

Typical 3B.2 slope-top elevation.
Left hand normal (LHN) as shown.
Right hand normal (RHN) opposite as shown.



Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

Locking Devices
KR.3 Sliding Door Locking Device

Standard Features

- Two point locking mechanical release cabinet – A three-position lever handle or crank handle is provided.
  Lever provides:
  1. Electric operation – Door control from a remote location.
  2. Release ports open – Opening of individual release ports. Doors to be individually released at the door with a removable handle. Covers are also individually released from the port.
  3. Emergency unlock – Gang release of all doors in event of emergency or power failure.
- Full length wire tray – Simplifies routing of electrical wire/harnesses. Runs the full length of the housing.
- Removable end battens – Simplify installation of wire harnesses.
- Locked open feature – Permits doors to be held open and immovable.

Applications

KR.3 devices are applicable to any multiple cell or inmate room door situation requiring selective, remote, electrical unlocking and manual movement of the door either open or closed.

Standard Features

- Motor voltage – 120 VAC.
- Plug-type connectors – Simplified wire harness installation.
- Individual motor unlocking – Each door is unlocked by its own motor.
- Heavy duty construction – KR.3 devices are ruggedly built for a range of detention environments.
- Tamper-resistance – All openings in housings are baffled to resist inmate tampering.
- Selective unlocking – Each door may be unlocked by an individual control switch, group-unlocked with an all door switch, or individually released through a port.
- Sloped-top housing – Resists hiding of contraband.
- Flat-top housing is provided where the device must install close to the ceiling.
- Fixed hinge cover – Allows maintenance without lifting heavy covers off the device.
- Automatic deadlocking – When fully closed or open, independent top and bottom locking points on the rear of each door automatically deadlock.
- Indication switch – Monitors the deadlocked condition of both locking points and mid-travel.

Locking Devices
KR.3 Sliding Door Locking Device

Optional Features

- Motor voltage – 24 VDC.
- Mechanical release column – A release column containing a No. 82 Deadlock may be added to provide local mechanical locking and unlocking by paracentric prison key.
- Two-position motor (MC) – Unlocks the door by an electric switch. Once unlocked, the mechanism remains in the unlocked position until electrically selected to relock. The door may then be deadlocked in either the open or closed position.
- Key switch – An electric key switch may be added to the above column for local electric control.
- Inmate control feature – Release columns may be equipped with an inmate push button on the cell side, and a key cylinder on the outside. Inmates may exit by pressing the push button, and reenter using a key. Feature may be canceled at a remote console or other control point.
- Electrical/mechanical control cabinet – Electrical switches may be ordered to provide control of each door in addition to mechanical function. These switches may be built into the mechanical release cabinet, or located remotely as needs dictate.

1. Individual Push Button Unlocking.
2. Group Switch – Provides group unlocking.
3. Power Cut-off Switch – Cuts electric current to controls.

Indication lamps may be installed in conjunction with switches to show deadlocked closed or open status of each door. When used, indication is as follows:
Red – Open or locked open.
Green – Deadlocked closed. Motor voltage – 24 VDC.

- Custom graphic consoles – In many cases, it may be desirable to separate electric controls from the mechanical cabinet located near the cells. For larger installations, or those with particular needs, custom-built consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- Cell line cable – For applications using a series of locking devices, a cell line cable may be specified to interconnect terminal strips in the mechanical control/release cabinet to a plug connector at the door operating unit. Simplifies routing of wire, and saves installation cost and time.
- G90 galvanized finish available.

Specifications

Unlocking System Type	Manual door movement.
Motor	120 VAC, 60 HZ, or 24 VDC.
Hanger and guides	1/4" thick steel.
Rollers	Cold formed steel. Rollers are mounted on hardened ball bearings protected by internal grease shields.
Finish	USP.
Housing	7-gauge steel.
Housing Covers	10-gauge steel, hinged to cover
Vertical Lock Column Housing	7-gauge steel.
Wire Tray	16-gauge steel tray.
Mechanical Release Column (Optional)	7-gauge steel.
Housing/Covers Finish	USP

Locking Devices
KR.3 Sliding Door Locking Device

Functions

Unit unlocks selected individual doors from a remote push button. A door starter then opens the door(s) a few inches.

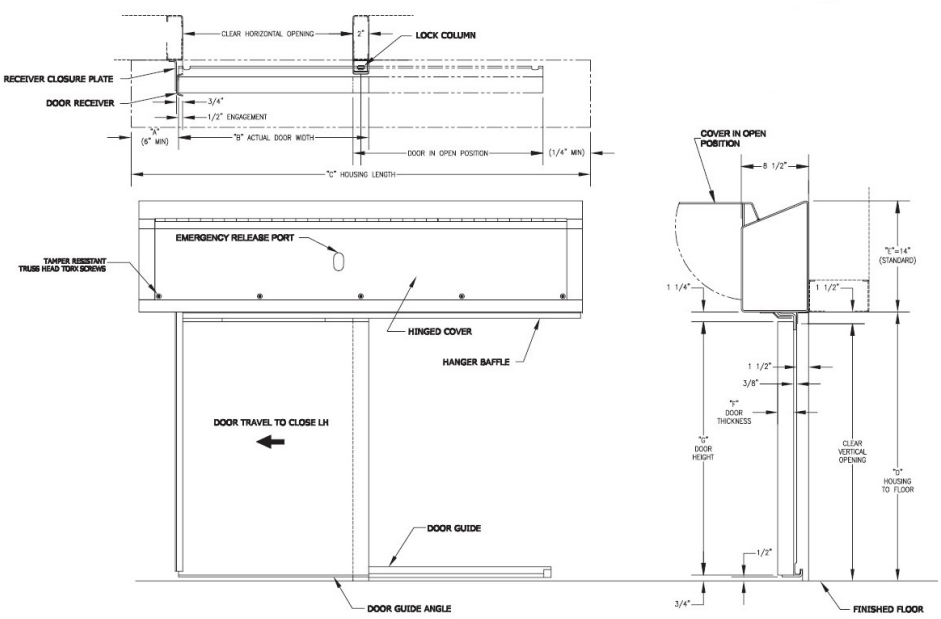
Doors opened or closed manually automatically snaplock and deadlock.

In event of emergency or power failure, gang unlocking is accomplished in a remote, mechanical release cabinet. Doors are then opened the remainder of the way by hand.

Locking System

Upon closure, each door automatically deadlocks at two concealed points at the top and bottom rear edge of the door. Upon opening, each door automatically deadlocks open at the front edge of the door. Locking components are not exposed or subject to tampering. Components do not project into the door opening.

Typical KR.3 slope-top elevation.
Left hand (LH) as shown.
Right hand (RH) opposite as shown.



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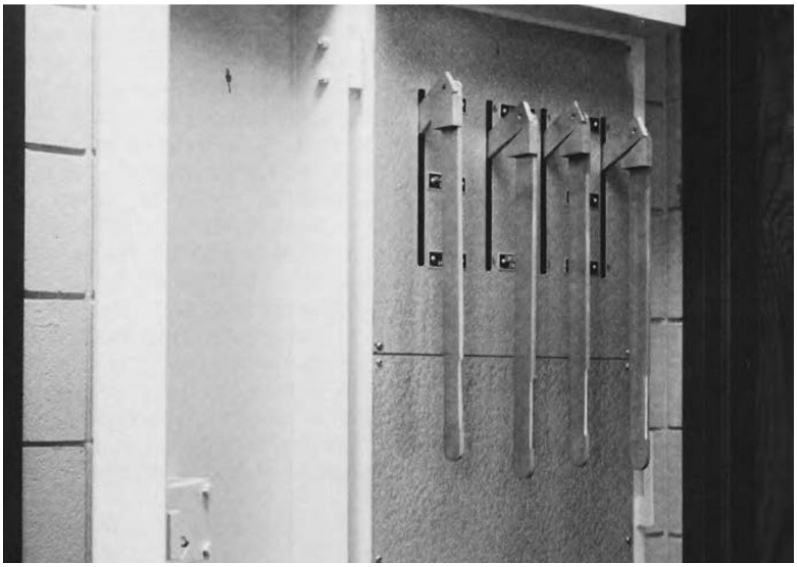
Locking Devices
Mechanical Control Cabinets



Introduction

In most cell door locking device systems, a combination of electrical and mechanical controls are needed to provide day-to-day operation and permit inmate movement. Electrical controls offer selective operation under normal circumstances and should be specified separately from locking devices or operators. To provide operation in event of emergency or power failure, mechanical release cabinets are offered. These permit release of rows or tiers of cell doors for manual opening and allow egress. In designing a security system, mechanical cabinets should be located in a secure area, contiguous to the cell run or tier to be controlled.

Functions

Mechanical Only

In a basic mechanical cabinet, a single lever control allows staff to unlock a group of cell doors. In the locked position, the locking mechanism of the overhead device is engaged and all doors are locked. When the lever is in the unlocked position, the mechanisms are disengaged and doors may be opened manually. Consult the product pages in this section for the method applicable to the device you are specifying.

In a basic cabinet, one lever locks or unlocks the locking system of a group of doors. Cabinet size and configuration may easily be customized to your specific application. In situations requiring control of multiple cell runs or tiers, additional lever controls may be added to allow single location operation. A maximum of eight levers may be combined into a single mechanical cabinet. With the cabinet
described above, electric operation, or opening and closing of the individual cell doors, would be accomplished by electrical switch, key switch, push button, or other actuation method external to the cabinet.

NOTE: In cases where a mechanical cabinet is not specified to accompany locking devices, the devices are provided with special covers and housings which permit access to the mechanism for manual unlocking of each individual door.

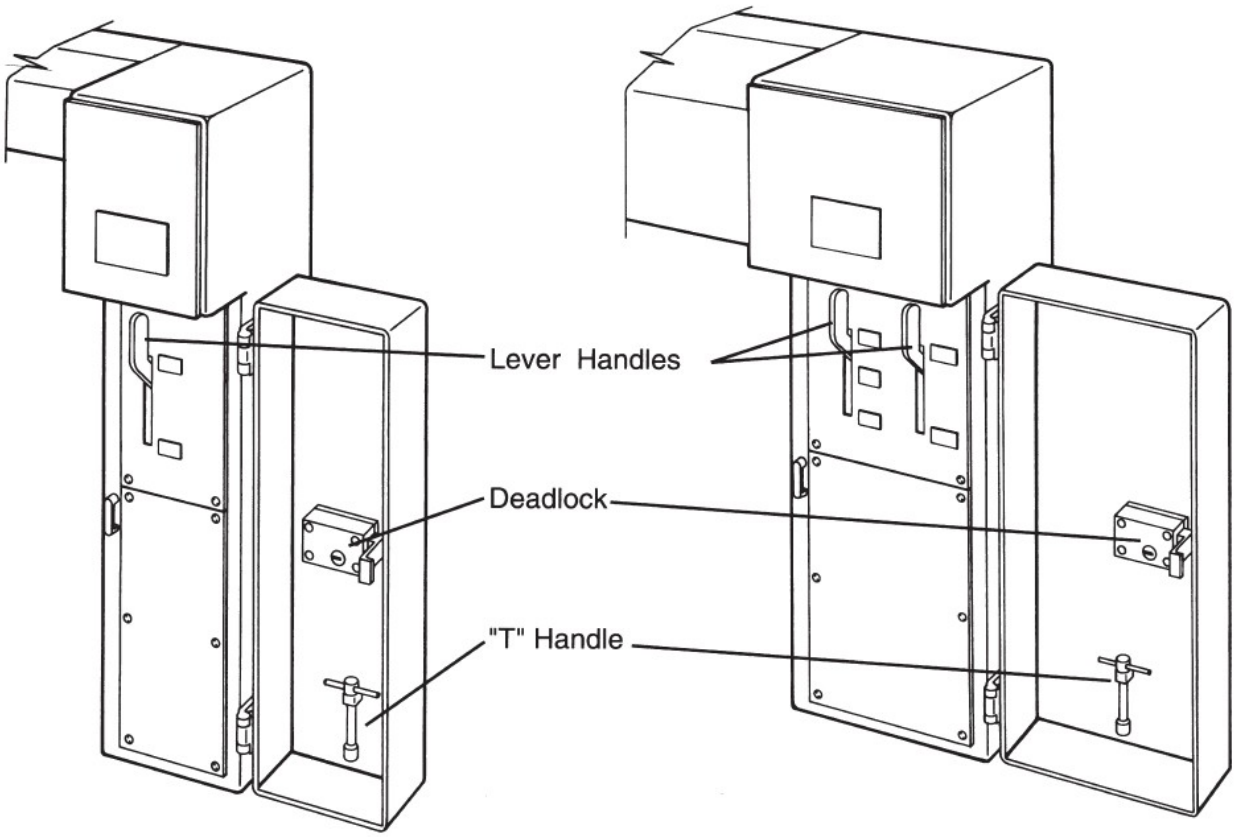
For individual mechanical operation in emergency or power failure, the cell release ports are opened from the mechanical cabinet. These ports provide access to a manual release system which is operated by a “T” handle, and releases individual doors. Refer to product pages as this feature is not available on all locking devices.

Mechanical/Electrical Operation

The custom nature of control cabinets allows the facility planner to combine electrical controls and mechanical release in the same cabinet. In this way, control/operation, and door status indication are centralized for staff safety and convenience, and the mechanical operation serves as a gang release or emergency release. Cabinets with electrical and mechanical controls offer operational versatility. When electrical controls are built into the same cabinet as the mechanical controls, each cell run or tier has two levers assigned. The first is the lock/unlock lever, the second selects mechanical operation in one position, and electrical operation in the other. Long runs of cells may require the addition of breech handles, or a crank and gear box to the cabinet. Release cabinets can be built for virtually any application. Consult with us early in the planning stages of your project for assistance.

Additional Data

Mechanical control cabinets are constructed of heavy duty materials, and the cabinet doors are secured by detention-quality, lever tumbler locks. Specifications are given on product pages in this section. The following illustrations show typical mechanical control cabinets and provide general information. This information is for reference only. Please contact us with your specific application requirements.



Locking Devices
D Corridor Door Operator

Optional Features

- Electrical control cabinet – Control cabinets may be furnished to house all wiring and switches for each door controlled. Three push buttons are provided for each door, labeled: OPEN-CLOSE-STOP. Two indicator lamps above the push buttons indicate door position:
  Red – OPEN.
  Green – CLOSED and deadlocked.
- Electrical interlocking – Wiring and adaptations may be made to permit interlocking of two or more doors in a sallyport or vestibule application. Prevents electric operation of any other interlocked door.
- Custom graphic consoles – In many cases, corridor operators are merely one part of a complete security system. For larger installations, or those with particular needs, custom built control consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- Tandem wheel assemblies for doors over 500 lbs. or excess width.

Applications

Type D Operators should be specified for entrances, security vestibules, or corridor doors in maximum security areas. May also be specified for exterior pedestrian gate applications.

Standard Features

- Motor voltage – 208 VAC.
- Rugged chain drive – Provides consistent action of the door under a variables.
- Heavy duty construction – Type D Operators are ruggedly built for a range of detention environments.
- Tamper-resistance – All openings in housings are baffled to preclude inmate tampering.
- Sloped-top housing – Resists hiding of contraband.
- Flat-top housing is provided where operator must install close to ceiling.
- Automatic deadlocking – Doors automatically deadlock at two concealed points at the rear of the door on closure.
- Indication switch – An internal switch monitors deadlocked condition of both locking points
- Terminal strip – All internal components are pre-wired to a terminal strip. The strip is also used for ease of field wiring.
- Adjustable friction clutch – In case of door blockage, clutch slips until obstruction is removed. If not removed, power to the motor is cut to avoid damage. Adjustment is provided to compensate for various sizes and weights of doors.
- Emergency manual unlocking and operation – In event of power failure, unlocking the column provides access to the release mechanism. The door may then be operated by hand crank.
- G90 galvanized finish.

Locking Devices
D Corridor Door Operator

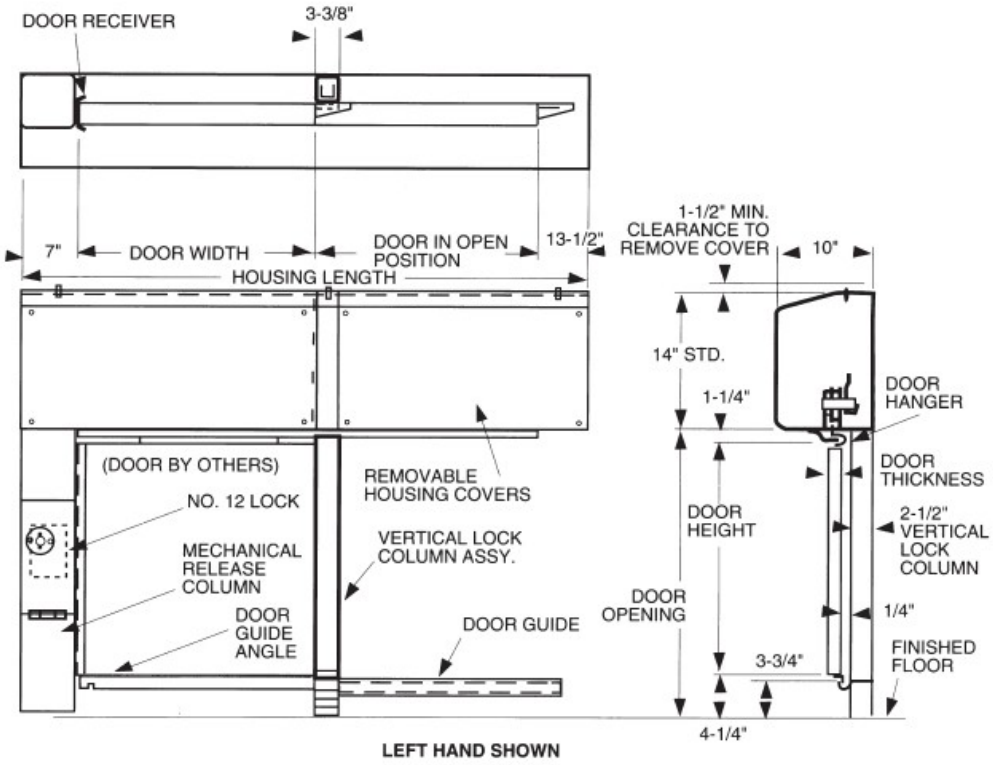
Functions

Unit unlocks, opens and locks open; or unlocks, closes and deadlocks closed, an individual door.

Movement of a door may be stopped in mid-travel to reverse its direction. When interrupted, the door is not freewheeling.

Interlocking: Any door not closed and deadlocked will also prevent electric operation of all other interlocked doors.

Manual emergency locking, unlocking and operation is accomplished by a clutch release and crank located in the locking column.



Locking System

The door automatically deadlocks closed at two concealed points at the rear edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. No components project into the door opening.

Locking System

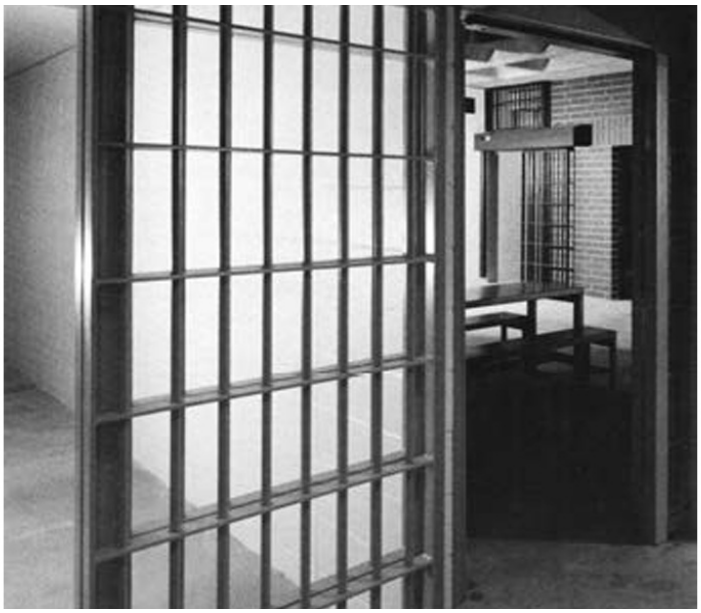
Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

Specifications

Drive System Type	Roller Chain
Motor	208 VAC, 60 HZ, 1/4 HP.
Roller Chain	1/4" thick steel.
Hanger Guids	1/4" thick steel.
Rollers	Anti-friction ball bearing with hardened members and grease shield.
Roller Studs	High alloy steel with self-locking nut.
Finish	USP
Housing	7-gauge steel.
Housing Covers	10-gauge steel.
Vertical Lock Column Housing	7-gauge steel.
Vertical Lock Column Covers	10-gauge steel.
Mechanical Release Column	7-gauge steel
Front Recover	10-gauge steel.

Locking Devices
D2B.3 Corridor Door Operator



Optional Features

- Door receiver column – A hinged door locking column which places the mechanical release mechanism approximately 3'6" from the floor.
- Location of mechanical release mechanism – (Release Port) The locked housing allows access to the release mechanism on the reverse side of the overhead housing.
- Electrical control cabinet – Provides a three-position switch for each corridor door, accompanied by red and green indication lamps. Operating switches are labeled: OPEN-OFF-CLOSED. Indication lamps are labeled: Red – OPEN., Green – CLOSED. A two-position power cut-off switch is also installed to cut power to the controls.
- G90 galvanized finish available.
- Electrical interlocking – Wiring and adaptations may be made to permit interlocking two or more doors in a sallyport or vestibule application. Prevents electric operation of any other interlocked door.
- Custom graphic consoles – In many cases, corridor operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom-built consoles may easily be provided with floor plan graphics screened on the control panel, and an array of specialized features.

Applications

D2B.3 Operators should be specified for security entrances, safety vestibules, corridor doors, or sallyports where remote electric control and chain drive are desirable.

Standard Features

- Motor voltage – 120 VAC.
- Rugged chain drive – Roller chain provides consistent action of the door under a variety of conditions and installation variables.
- Heavy duty construction – D2B.3 Operators are ruggedly constructed for the detention environment.
- Tamper-resistance – Openings in housings are baffled to preclude inmate tampering.
- Adjustable torque limiter – Absorbs start-up and closing shocks by isolating the motor. Allows pressure exerted by the motor to be set to the needs of an individual door. Adjustment is provided to compensate for various sizes and weights of doors.
- Sloped-top housing – Resists hiding of contraband. Flat-top housing is provided where operator must install close to ceiling.
- Automatic locking – Doors lock automatically at two points.
- Indication switch – Monitors the deadlocked condition of both locking points.
- Remote, electric unlocking – Each door is controlled by a three-position switch. (OPEN-OFF-CLOSE).
- Emergency manual unlocking – In event of power failure, a release port may be opened by paracentric key. This action allows use of a “T” handle to unlock the door, and move it by hand-applied pressure. The door must be moved (restarted electrically or mechanically) to the open or closed position to lock.

Locking Devices

D2B.3 Corridor Door Operator

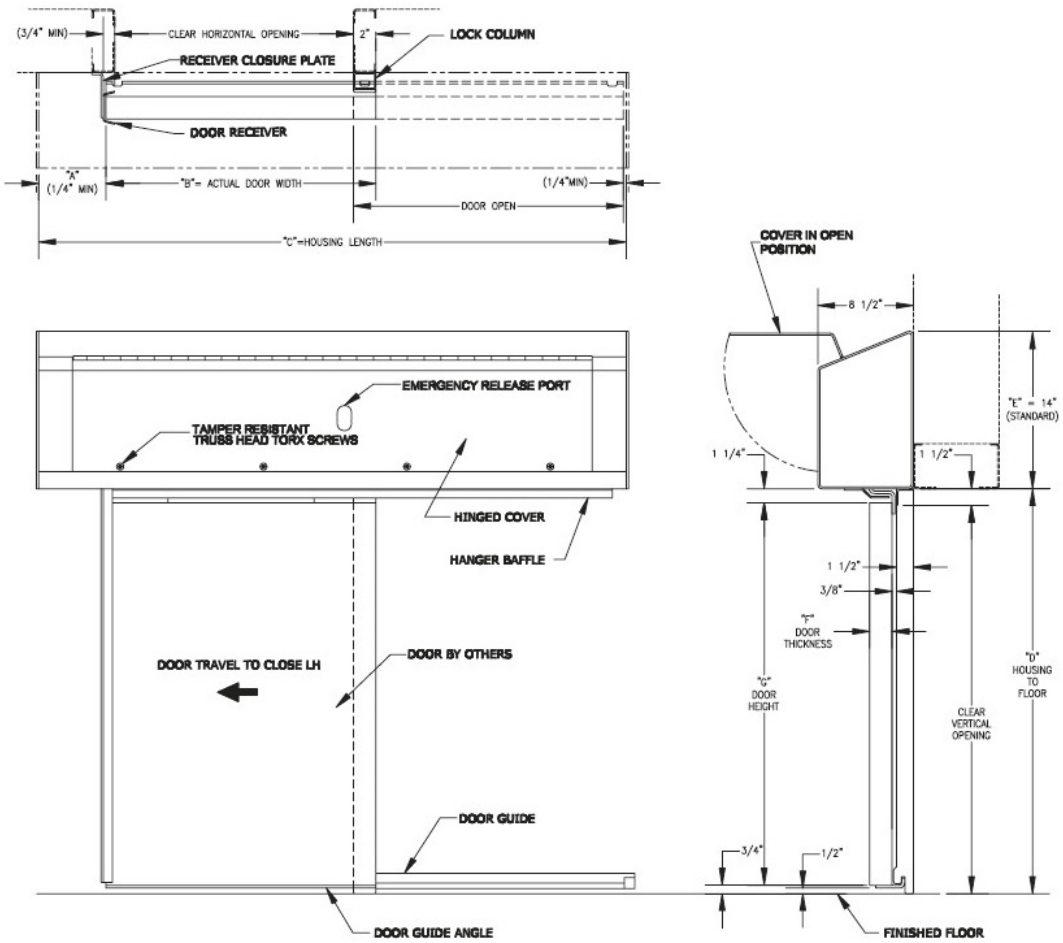
Functions

Unit unlocks, opens and locks open; or unlocks, closes and deadlocks closed a corridor door. A door stopped in midtravel may be opened or closed manually. Direction of movement of a door may be reversed electrically. In event of blockage, a torque limiter slips to prevent motor damage. When obstruction is removed, the door will automatically continue movement to the open or closed position. Pressure exerted by a door in travel is factory-set to approximately 40 pounds. Individual doors may be manually unlocked at the door.

Locking System

The door automatically deadlocks closed at two concealed points at the rear edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. No components project into the door opening.

Typical D2B.3 slope-top elevation.
Left hand (LH) as shown.
Right hand (RH) opposite as shown.



Locking Devices
D2B.3 Corridor Door Operator

Specifications

Drive System Type	Roller Chain
Motor	208 VAC, 60 HZ, 1/4 HP.
Roller Chain	1/4" thick steel.
Hanger Guides	1/4" thick steel.
Rollers	Anti-friction ball bearing with hardened members and grease shield.
Roller Studs	High alloy steel with self-locking nut.
Finish	USP
Housing	7-gauge steel.
Housing Covers	10-gauge steel.
Vertical Lock Column Housing	7-gauge steel.
Vertical Lock Column Covers	10-gauge steel.
Mechanical Release Column	7-gauge steel
Front Recover	10-gauge steel.

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

Locking Devices
D3B.2 Corridor Door Operator

Optional Features

- Door receiver column – Provides for location of mechanical release mechanism approximately 3'6" from the floor, and provides rod release for disengagement of rack and pinion for manual door movement.
- Electrical control console – Provides a three-position switch for each corridor door, accompanied by red and green indication lamps. Operating switches are labeled:
- OPEN-OFF-CLOSED.
  Indication lamps are labeled:
  Red – OPEN, Green – CLOSED.
  A two-position power cut-off switch is also installed to cut power to the controls.
- Interlocking – Wiring and adaptations may be made to permit interlocking two or more doors in a sallyport or vestibule application. Prevents electrical operation of any other interlocked door.
- Custom graphic consoles – In many cases, corridor operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom-built consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.
- G90 galvanized finish available.

Applications

D3B.2 Operators should be specified for security entrances, corridor doors, safety vestibules, or sallyports where remote electric control and precise rack and pinion drive are desirable

Standard Features

- Motor voltage – 120 VAC.
- Precise, rack and pinion gear drive.
- Heavy duty construction – D3B.2 Operators are ruggedly built for the detention environment.
- Tamper-resistance – All openings in housings are baffled to preclude inmate tampering.
- Sloped-top housing – Eliminates hiding of contraband. Flat-top housing is provided where operator must install close to ceiling.
- Automatic deadlocking – When fully closed, top and bottom locking points on the rear of each door are forced down into deadlock.
- Indication switch – An internal switch monitors the deadlocked condition of both locking points.
- Remote, electric unlocking – Each door is controlled by a three-position switch. (OPEN-OFF-CLOSE).
- Emergency manual unlocking – In event of power failure, a release port may be opened by paracentric key. This action allows use of a “T” handle to disengage motor. The door may then be manually moved to open or closed position.

Locking Devices
D3B.2 Corridor Door Operator

Functions

Unit unlocks, opens and locks open; or unlocks, closes and deadlocks closed, an individual door.

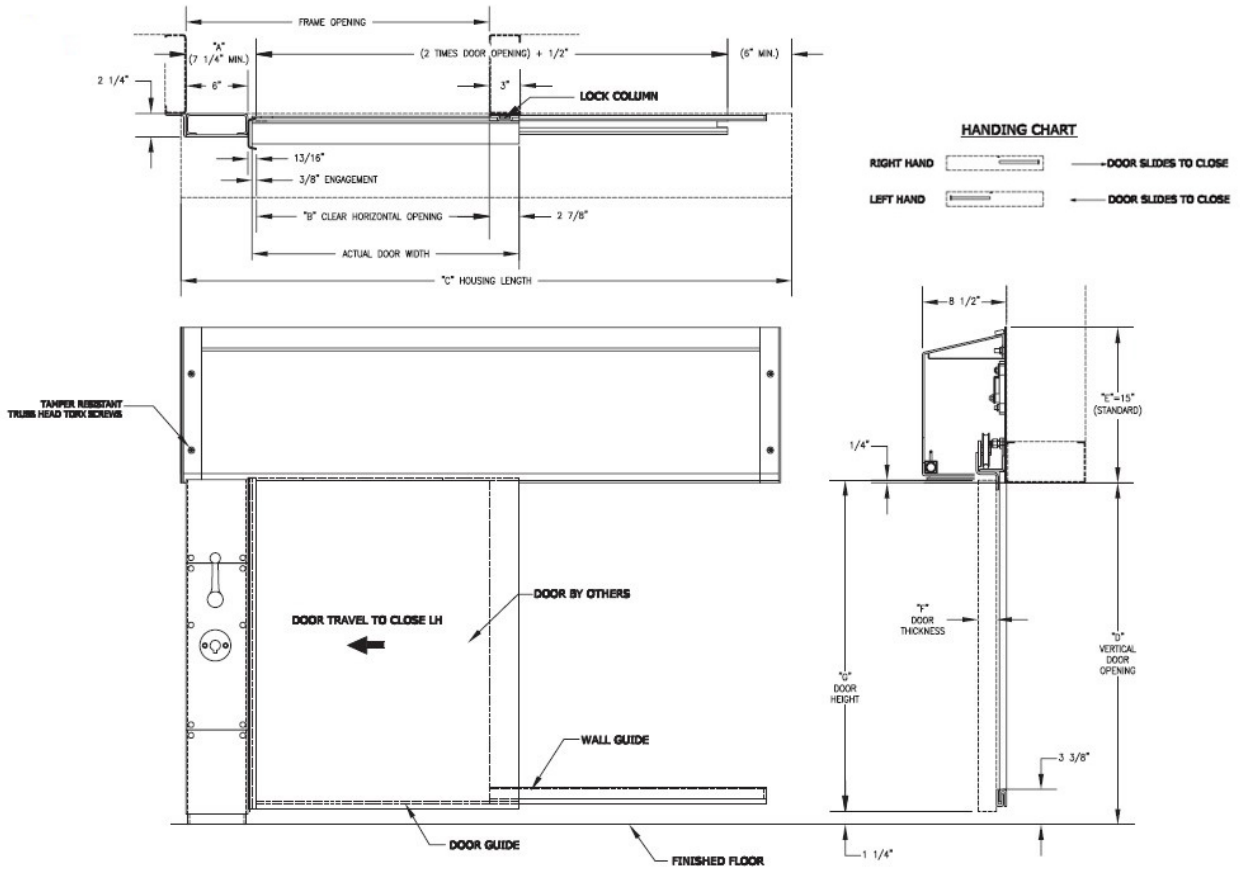
A door stopped in mid-travel may be opened or closed manually. Direction of movement of a door may be reversed electrically. In event of blockage, a torque limiter prevents motor damage. When obstruction is removed, the door will automatically continue movement to the open or closed position.

Pressure exerted by a door in travel is factory-set to approximately 40 pounds.

Blockage of a door will not cause motor damage. When obstruction is removed, the door continues movement to the open or closed position. Individual doors may be mechanically unlocked at the door.

Locking System

The door automatically deadlocks closed at two concealed points at the rear edge of the door. Locking components are not exposed at the front edge of the door and, therefore, not subject to tampering. No components project into the door opening.



TYPICAL D3B.2 SLOPE-TOP ELEVATION
LEFT HAND (LH) AS SHOWN
RIGHT HAND (RH) OPPOSITE AS SHOWN

Locking Devices
D3B.2 Corridor Door Operator

Specifications

Drive System Type	Roller Chain
Motor	120 VAC, 60 HZ, 1/10 HP.
Roller Chain	#41 size.
Hanger Guides	1/4" thick steel.
Rollers	Anti-friction ball bearing with hardened members and grease shield.
Roller Studs	High alloy steel with self-locking nut.
Finish	USP
Housing	7-gauge steel.
Housing Covers	10-gauge steel.
Vertical Lock Column Housing	7-gauge steel.
Vertical Lock Column Covers	10-gauge steel.
Mechanical Release Column	10-gauge steel
Finish	USP

Note: Dimensions are for information and planning purposes only, and should not be used as templates.

The illustration shown is intended for general information and planning purposes only. Folger Adam locking devices are fabricated to the design of the facility.

Locking Devices
D5B Corridor Door Operator

Optional Features

- Interlocking – Wiring and adaptations may be made to permit interlocking of two or more doors in a sallyport or vestibule application. Prevents electric operation of any other interlocked door.
- G90 galvanized finish available.
- Custom graphic consoles – In many cases, corridor operators are merely one part of a complete security system. For larger installations, or those with particular needs, custom built consoles may be easily provided with floor plan graphics screened on the control panel, and an array of specialized features.

Applications

Type D5B Operators are high security, motorized locking and operating mechanisms for individual sliding doors not exceeding 450 pounds.

Standard Features

- Motor voltage – 120 VAC.
- Rugged chain drive – Roller chain provides sure action of the door under a variety of conditions and installation variables.
- Heavy duty construction – D5B Operators are ruggedly built for the detention environment.
- Tamper-resistance – Openings in housings are baffled to preclude inmate tampering.
- Adjustable torque limiter – Absorbs start-up and closing shocks by isolating motor. Allows pressure exerted by the motor to be set to the needs of an individual door. Adjustment is provided to compensate for various sizes and weights of doors.
- Sloped-top housing – Resists hiding of contraband. Flat-top housing is provided where unit must install close to ceiling.
- Automatic locking – Doors automatically lock at two points.
- Indication switch – Monitors deadlocked condition of both locking points.
- Remote, electric unlocking – Each door is controlled by a three-position switch: OPEN-OFF-CLOSE.
- Local electric key operation – Use of a paracentric key at the door column activates an electrical circuit opening the door. Turning the key one-quarter turn to the right opens the door; returning the key to center position closes the door.
- Emergency mechanical unlocking – In event of power failure, prison paracentric key unlocks the door with a full 180° turn. Door is then moved manually.

Locking Devices
D5B Corridor Door Operator

Functions

Unit unlocks, opens and locks open; or unlocks, closes and deadlocks closed a corridor door.

A door stopped in mid-travel may be opened or closed manually.

Direction of movement of a door may be reversed electrically.

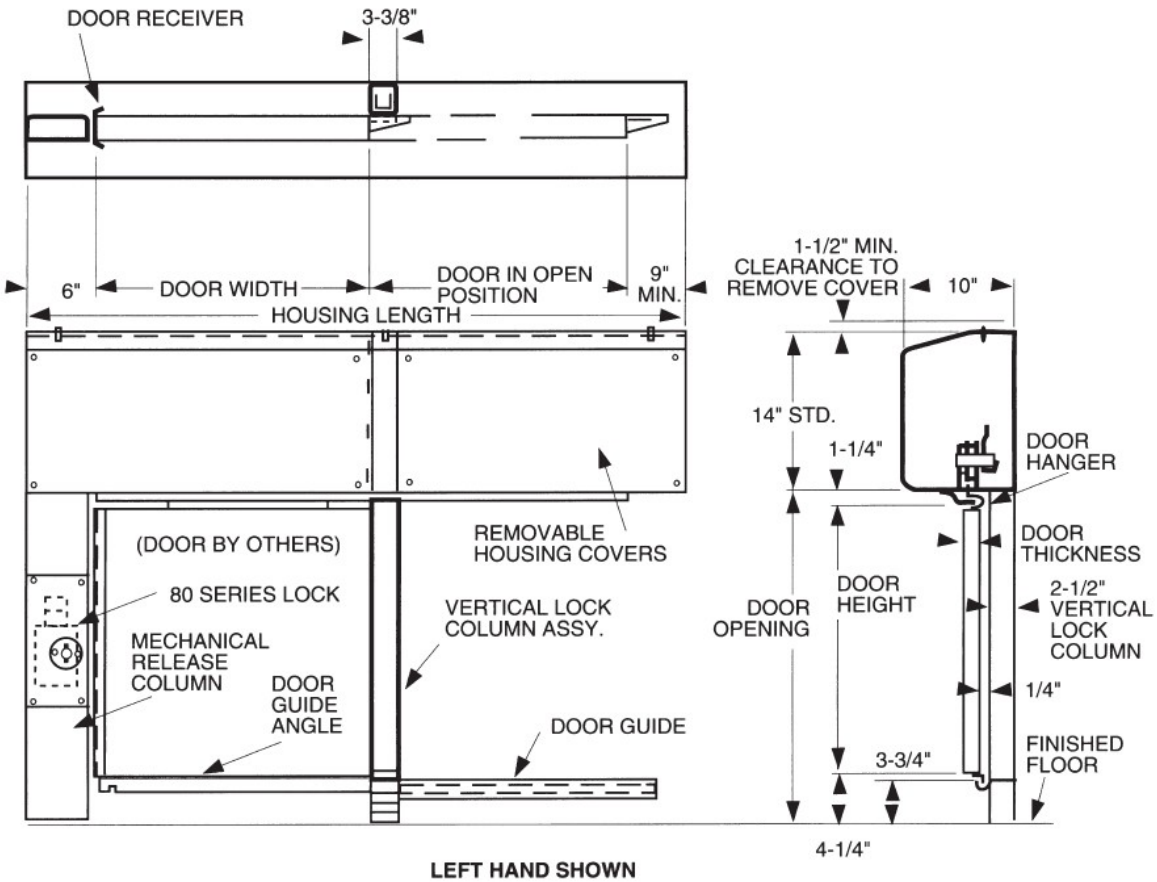
In event of blockage, a torque limiter slips to prevent motor damage. When obstruction is removed, the door will automatically continue movement toward the open or closed position. Pressure exerted by a door in travel is factory set to approximately 40 pounds.

In event of power failure, door may be released from a column at the door location by use of a paracentric key. The door may then be moved manually to an open position.

NOTE: The same key will operate the door electrically under normal conditions.

Locking System

Doors automatically deadlock at two points at the rear of the door. Locking components are fully concealed, and not subject to inmate tampering. Local mechanical/electrical control of the door is accomplished by an 80 Series lock in an adjacent column.



LEFT HAND SHOWN

Locking Devices
D5B Corridor Door Operator

Specifications

Unlocking System Type	Manual
Motor	120 VAC, 60 HZ
Hanger and Guides	1/4" thick steel.
Rollers	Anti-friction ball bearing with hardened members and grease shield.
Roller Studs	High alloy steel with self-locking nut.
Finish	USP
Housing	7-gauge steel.
Housing Covers	10-gauge steel.
Vertical Lock Column Housing	7-gauge steel.
Vertical Lock Column Covers	10-gauge steel.
Mechanical Release Column	7-gauge steel with 10-gauge steel front receiver.
Finish	USP

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Locking Devices
DKR.3 Corridor Operator

Optional Features

- Custom graphic consoles – In many cases, corridor operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom-built control consoles may easily be provided with floor plan graphics screened on the control panel, and an array of specialized features.
- G90 galvanized finish available.

Applications

Type DKR.3 Operators are medium security, unlocking systems for sliding corridor doors not exceeding 300 pounds.

Standard Features

- Motor voltage – 120 VAC.
- Individual motor operation – Each door is unlocked by its own motor.
- Heavy duty construction – DKR.3 Operators are ruggedly built for the detention environment.
- Tamper-resistance – All housing openings are baffled to preclude inmate tampering.
- Sloped-top housing – Eliminates hiding of contraband.
- Flat-top housing is provided where operator must install close to ceiling.
- Automatic deadlocking – Units snaplock and automatically deadlock when closed.
- Indication switch – Monitors the deadlocked condition of both locking points.
- Mechanical release – A No. 12 Deadlock in the release column provides mechanical unlocking of the mechanism.

Optional Features

- Key switch operation – An electrically operated key switch may be added to the release column for local electric operation.
- Electric controls – A control console with push button switch, red and green indication lamps, and power cut-off switch may be provided.
- Interlocking – Wiring and adaptations may be made to permit interlocking of two or more doors in a sallyport or vestibule application. Prevents electrical operation of any other interlocked door.

Locking Devices
DKR.3 Corridor Operator

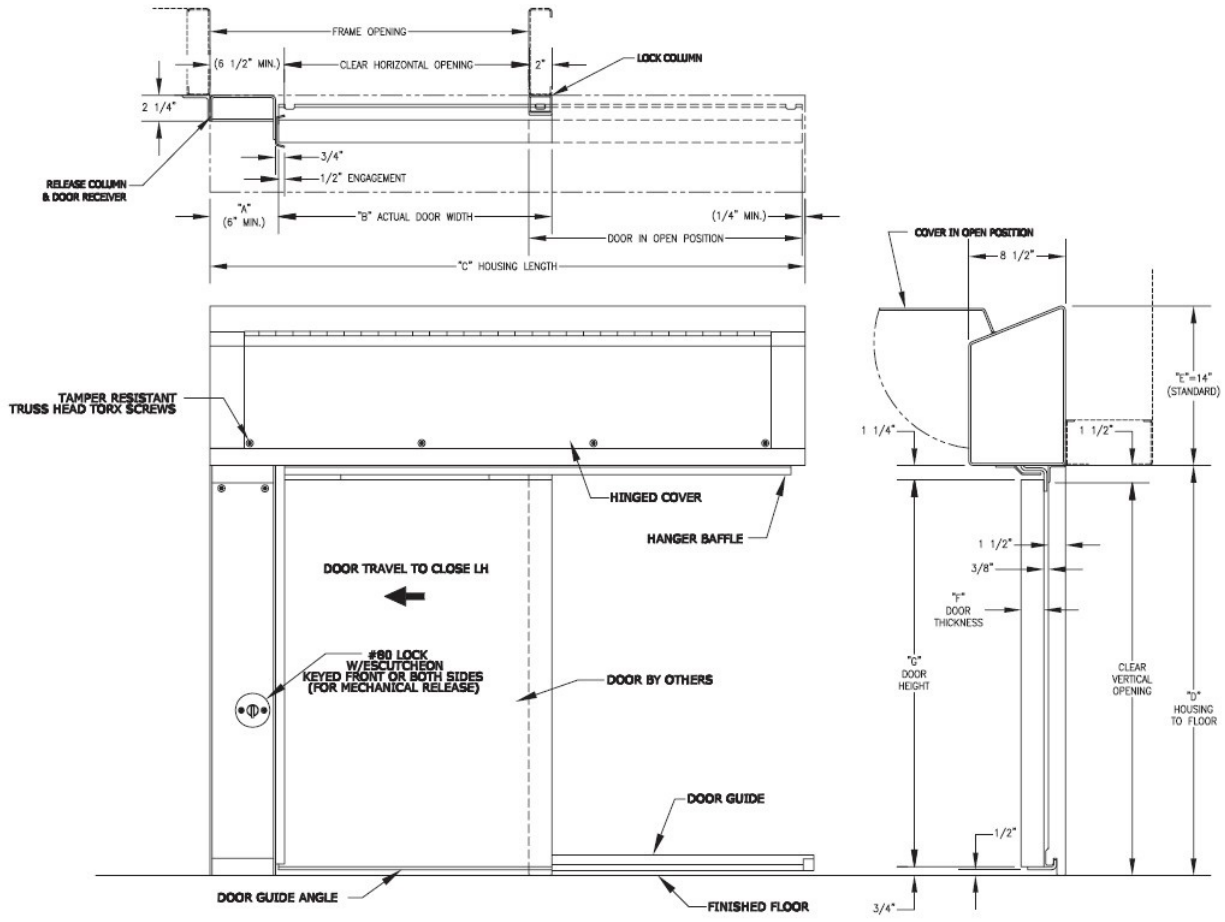
Functions

Unit unlocks a door from a remotely located control console by push button, and the door starter pushes the door open a few inches. It may then be opened the rest of the distance manually.

Individual doors may be opened by prison paracentric key at the release column.

Locking System

Doors automatically snaplock and deadlock upon closure at two points on the top and bottom rear of the door. Locking components are completely concealed, and not subject to inmate tampering. Components do not project into door opening.



TYPICAL DKR.3 SLOPE-TOP ELEVATION
LEFT HAND (LH) AS SHOWN
RIGHT HAND (RH) OPPOSITE AS SHOWN

Locking Devices
DKR.3 Corridor Operator

Specifications

Unlocking System Type	Manual
Motor	120/208 VAC, 60 HZ
Hanger and guides	1/4" thick steel.
Rollers	Anti-friction ball bearings with hardened members and grease shield
Finish	USP
Mechanism Housing	7-gauge steel plate.
Housing Covers	10-gauge steel.
Vertical lock column housing	7-gauge steel.
Vertical Lock Column Cover	10-gauge steel.
Mechanical release column	7-gauge steel with 10-gauge steel front receiver.
Finish	USP

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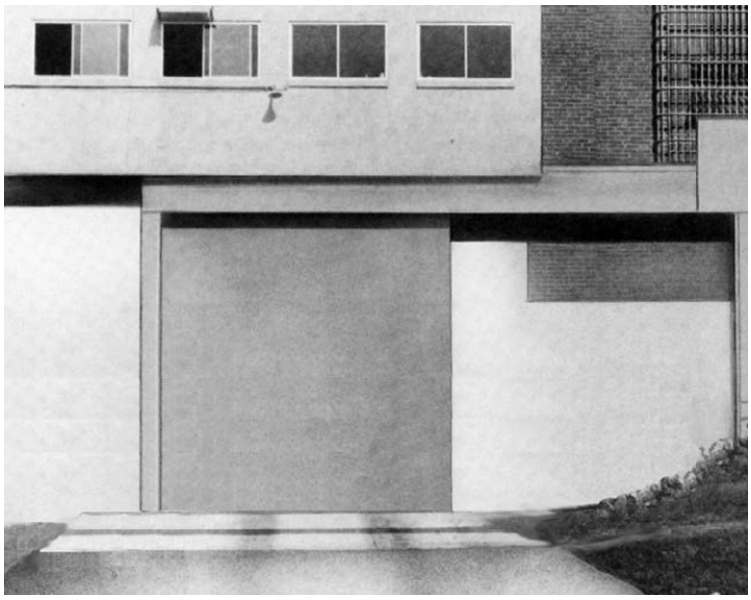
Locking Devices
G Operators Sliding Fence Gate



Functions

Unit unlocks and opens or closes and locks a single door from a set of remote push buttons: OPEN-CLOSE-STOP.

The bi-parting G Operator is manually locked or unlocked at the door by a cremone bolt located in the gates. The gates may then be operated from a remote set of push buttons: OPEN-CLOSE-STOP.

In event of emergency or power failure, doors may be mechanically unlocked by prison paracentric key and hand cranked to open or closed position.

Gate movement may be stopped in mid-travel and restarted in the desired direction by pressing the appropriate push button.

NOTE: When closed, it is impossible to move the gate except by electrical or mechanical methods.

Applications

G Operators are applicable to any exterior entrance for passenger vehicles or trucks.

Standard Features

- Motor voltage – 120/208 VAC.
- Rugged chain drive – Provides consistent action of the door under a variety of conditions and installation variables.
- Heavy duty construction – G Operators offer welded steel construction and rugged components for durability in exterior applications.
- Self-supporting – Heavy columns and beams combine to make the structure self-supporting.
- Control station – Three push buttons (OPEN-CLOSE-STOP) provide remote operation. Red and green indicator lights show open and closed condition (respectively) of gates.
- Interlock feature – Two or more operators may be electrically interlocked so that only one may be unlocked and operated at a time.
- Emergency mechanical operation – In event of power failure unlocking the column provides access to the release mechanism. The door may then be opened by hand crank.

Optional Features

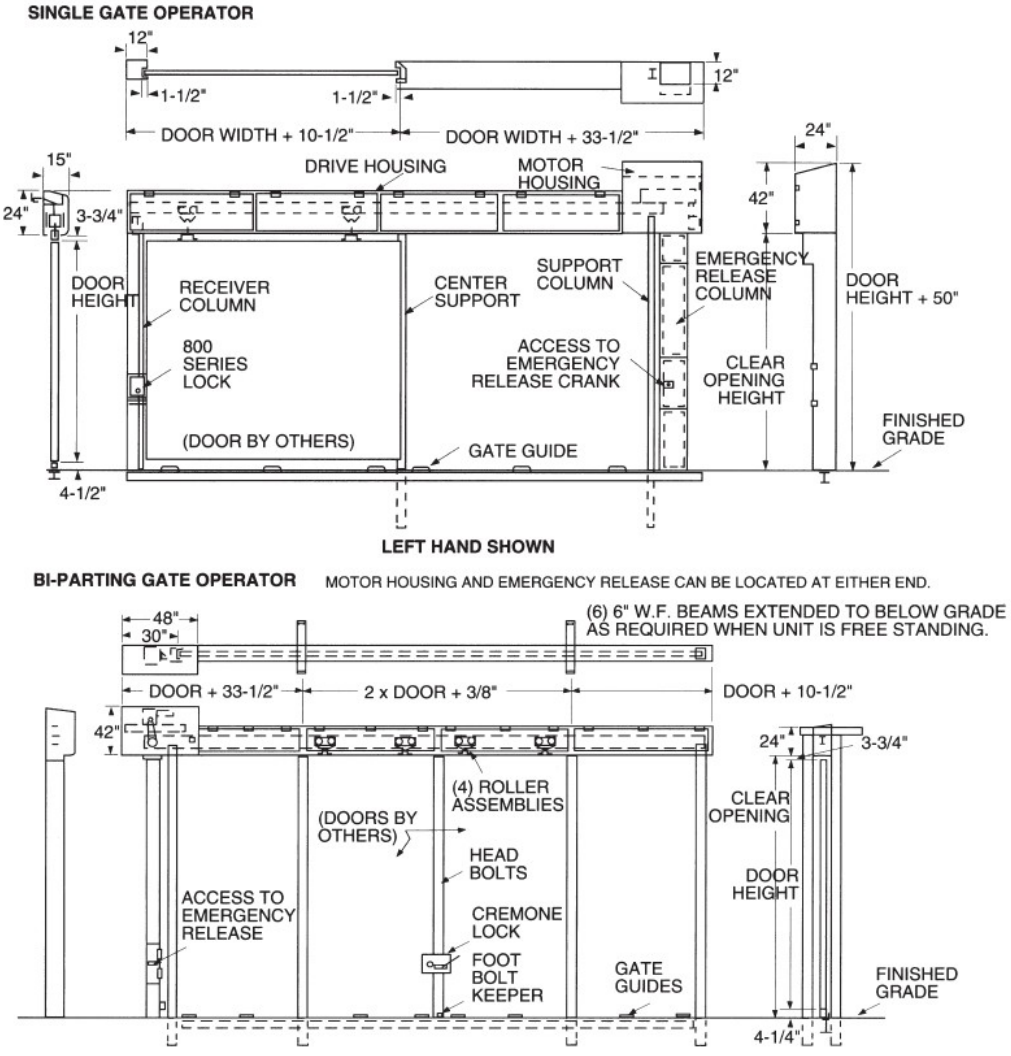
- Custom graphic consoles – In many cases, operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom-built consoles or touchscreen controls may be easily provided with floor plan and special feature graphics.

Locking Devices
G Operators Sliding Fence Gate

Locking System

Single Door Model: Secured by an 800 Series lock located in a column at the front of the door. (See Electric Lock Section for details.)

Bi-parting Door Model: Secured by cremone bolts operated by prison paracentric key. (See Mechanical Lock Section for details.)



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Locking Devices
G Operators Sliding Fence Gate

Specifications

Unlocking System Type	Roller Chain
Motor	120/208 VAC, 60 HZ, 1-1/2 HP.
Roller Chain	#60 size.
Trolley Hangers	3 ton capacity
Locking Column	7-gauge steel plate construction with swinging type door equipped with two #3 hinges, and secured by an 80 Series Deadlock.
Mechanism Housing	7-gauge steel.
Housing Covers	7-gauge steel plate.
Gate Guides	5" I-beam with forged and welded steel guides.
Finish	USP except track, rollers and drive mechanism.
Trolley Track	8" I-beam x 23 pounds.
Support Beams	6" WF beam x 20 pounds.

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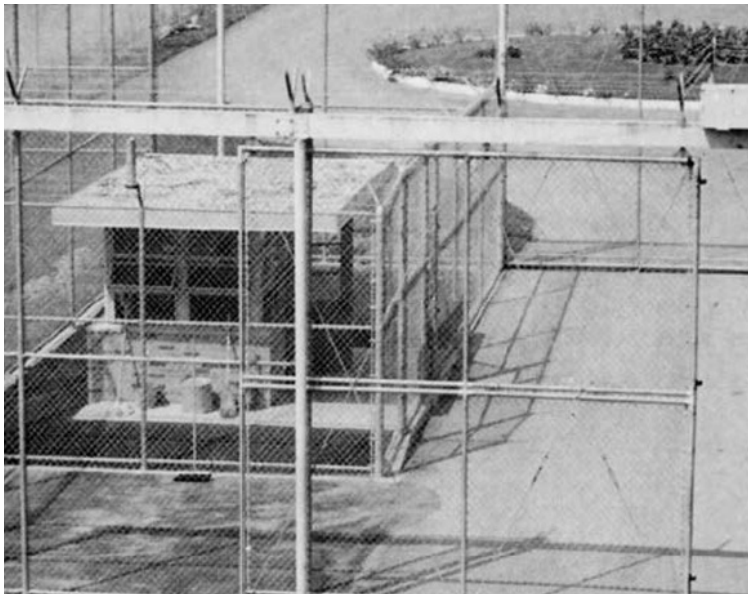
Locking Devices
J Operators



Applications

Type J Operators are applicable to vehicular entryways for perimeter control. Two or more operators may be installed and interlocked to create vehicular sallyports permitting a secure location for inspection of vehicles and passengers.

Standard Features

- Motor voltage – 208 VAC.
- Rugged chain drive – Provides consistent action of the gate under a variety of conditions and installation variables.
- Heavy duty construction – Welded steel construction coupled with column and H-beam support assure durability.
- Tamper-resistance – Drive system is self-contained, mechanism is enclosed when the gate is open.
- Adjustable friction clutch – Protects the motor in the event of blockage. If obstruction is not removed, power to the motor is cut off. Adjustment is provided to compensate for various sizes and weights of gates.
- Automatic deadlocking – Occurs whenever the gate is closed electrically or manually.
- Three-point locking – Gate is locked along leading edge in three locations for security.
- Weather-resistant construction – Housings and covers are designed specifically for exterior application.
- Corrosion-resistant working parts – Critical operating parts are made of corrosion-resistant materials for reliability
- Emergency manual operation – In event of power failure, hand crank operation opens or closes the gate.
- Interlocking – When two or more operators are used, interlocking feature allows electrical opening of only one gate at a time.
- Attachment points – Standard pipe flanges atop the mechanism track permit attachment of barbed wire.

Optional Features

- Operating voltage – 120 VAC, 60 HZ, 1 phase
- Gate width – Operators may be specified for gate sizes up to 16' high and 30' wide.
- Control station – Three push buttons (OPEN-CLOSE-STOP) provide remote operation. Red and green indicator lights show open and closed condition (respectively) of gates.
- Custom graphic consoles – In many cases, operators are merely one part of a complete security system. For these larger installations, or those with particular needs, custom-built consoles or touchscreen controls may be easily provided with floor plan and special feature graphics.

Locking Devices
J Operators

Functions

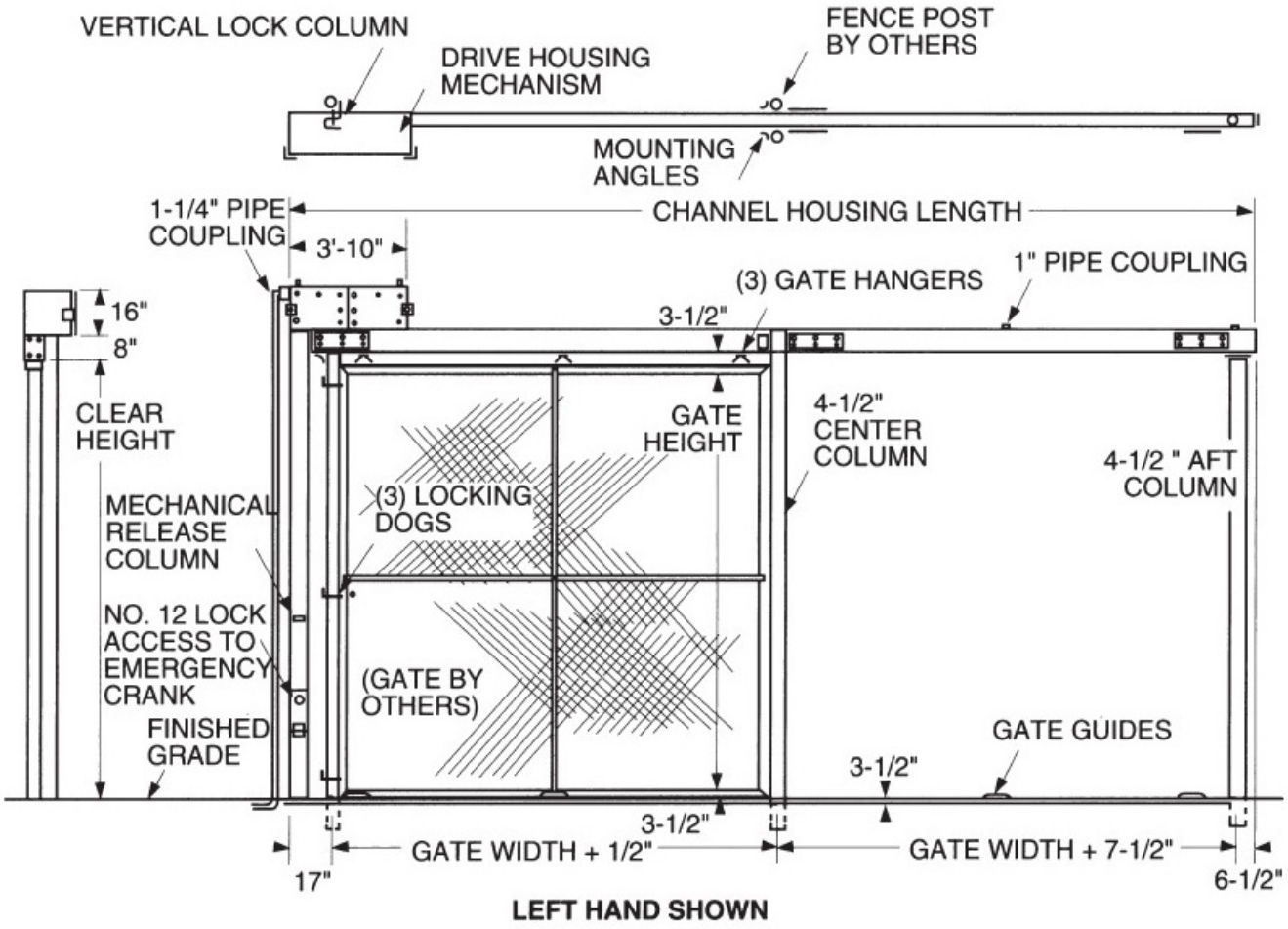
Unit unlocks, opens; or closes and deadlocks a gate electrically, from a remote push button station. When closed, it is impossible to move the gate except by electrical or mechanical methods.

Movement of a gate in either direction may be stopped and re-started by pressing the appropriate push button.

Mechanical movement of the gate is accomplished by a hand crank in the release column in the event of power failure or emergency.

Locking System

On closure, locking is accomplished by means of a keyless locking device which engages the gate at three locations in the locking column. In the open position, all openings in the locking column are completely closed to prevent tampering.



Locking Devices
J Operators

Specifications

Drive System Type	Roller Chain
Motor	208 VAC, 60 HZ, 3 phase 1/3 HP.
Roller Chain	#40 size.
Motor Housing	7-gauge steel.
Cover	10-gauge steel.
Support Structure	Two 8" x 13.75" steel channels.
Center and aft support columns	4-1/2" OD x 4" ID.
Locking column	4" x 4" x 13" H-beam.
Emergency release column	7-gauge steel, hinged access door equipped with No. 12 Deadlock.
Finish	USP

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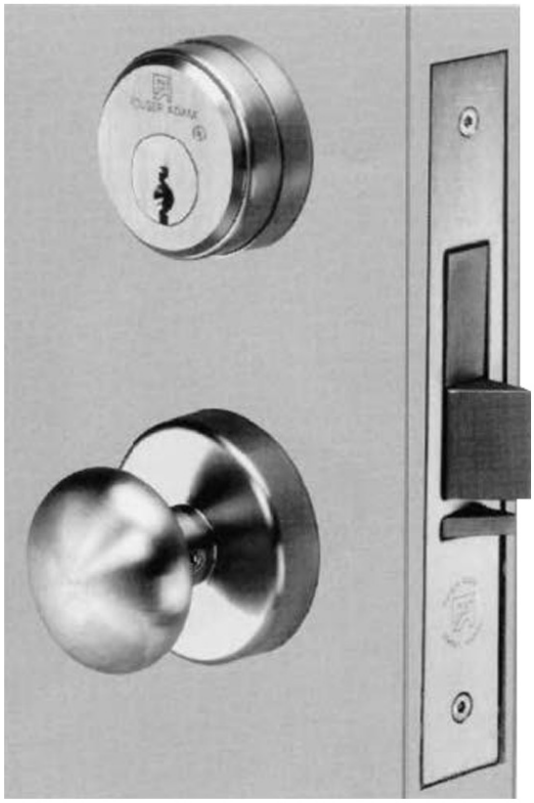
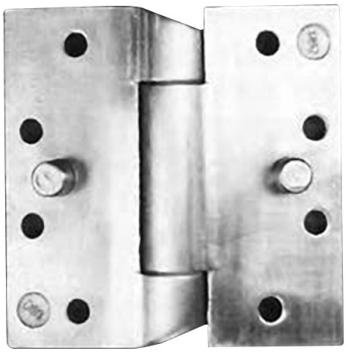
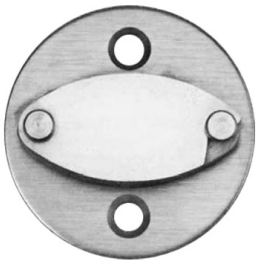
Accessories







Southern Folger

Accessories

High Security Six-Pin and Mogul Cylinder / Mogul Key

Application

Many of our locks are equipped with a “mogul-type” cylinder. This rugged cylinder is approximately twice the size of a standard “builder’s hardware” cylinder. The mogul cylinder has six-pins with side bar operation. Six tumbler cylinders provide higher security than standard five tumbler cylinder with more combinations available. All cylinders may operate under the same exclusive key, including Southern Steel security builders cylinder, if desired.

NOTE: Master keying available.

Technical Data

Standard Finish	US26D
Mogul Cylinders	Brass
Mogul Keys	Nickel Silver
Cylinder Size	2" thread Diameter
Cylinder Weight	1.5 lbs
Key Size	2-3/8” L x 1/8” TK
Tensile Strength	91,000 lbs/in.2
Yield Strength	76,000 lbs/in.2
Rockwell Hardness	89 HRB
Pin Tumblers	6 Tumblers per lock

Accessories
Key Cylinders

Application

With the exception of the 7000 Series lever tumbler models, all R.R. Brink Locking Systems' locks must be fitted with a mortise, pin tumbler key cylinder for manual unlocking. Our locks can be ordered to accept either a standard builder's hardware mortise cylinder or the prison "Mogul" type, as shown above.

In correctional facilities, the RRBLS "Mogul" is often the cylinder of choice for detention grade locks only. This product differs from the standard mortise cylinder* (a.k.a. builder's hardware cylinder) in two significant aspects. First, all components of the RRBLS "Mogul" cylinder are approximately twice the size of the conventional mortise type. This size difference includes the internal parts (i.e. pins, springs, balls, and cylinder plug) as well as the external cylinder body or housing. (The diameter of the "Mogul" is 2" and the standard cylinder is 1-5/32".) Compared to a standard mortise cylinder, the "Mogul" parts offer proportionately larger wear surfaces and a longer life cycle. Also, the larger cross sectional area of the "Mogul" keyway facilitates the removal of debris commonly inserted by inmates to impede key operation. Second, the dimensions of the "Mogul" key are roughly twice that of a standard mortise cylinder key. This key size reduces the chance of breakage under forced turning (e.g. against a bind) and affords increased torque to ease the unlocking of heavy prison lock mechanisms. Also, the "Mogul" key size lends itself to easy insertion into the cylinder keyway.

For detention facility applications when it is desired to master key both commercial and detention grade locks on one system, we recommend specification of a "high security" brand of mortise cylinder which affords pick resistance and key blank control. RRBLS is an authorized OEM dealer for both ASSA ® and MEDECO ® high security cylinders. Unless otherwise specified, we provide either the standard mortise ASSA ® or MEDECO ® brand with our factory key cylinder (FKC) option*. When our locks are equipped with ASSA ® or MEDECO ® cylinders, we can provide direct factory to user service for replacement cylinders and keys. We stock their cylinder parts and certain proprietary key blanks so that we are able, on short notice, to pin new cylinders and cut keys.

*The ASSA ® and MEDECO ® companies market a "Mogul" version of their standard size high security mortise cylinders. Whereas these products have the same 2" diameter body as the RRBLS "Mogul" cylinder, that is where the similarity ends. All internal parts as well as the key furnished with their "Mogul" versions are identical to their standard product.

Accessories
Key Cylinders

Thus, the distinctive feature of the RRBLS “Mogul” cylinder (i.e. all internal parts and key being larger in proportion to its 2” diameter body) cannot be ascribed to these variations of a standard product. Our motive in making this distinction is not to discourage the use of high security key cylinders with detention grade locks. The purpose is to point out to specifiers and end users that, with our locks, the ASSA ® or MEDECO ® “Mogul” cylinder offers no functional advantage over their standard size product. Therefore, we recommend use of their standard size product with the attendant cost saving.

	MEDECO® Mortise Pin-Tumbler Key Cylinder*	ASSA® Mortise Pin-Tumbler Key Cylinder*	R.R. Brink Mogul Pin-Tumbler Key Cylinder*	R.R. Brink Lever-Tumbler Key Cylinder**
				
Compatible with R.R. Brink lock models	1040, 1050, 1060, 1070, 2020, 2050 3020, 3520-300, 3520-600 5020S, 5020M, 5020EUKL, 5520, 8030, 8050, 8055 9010, 9017		1020, 1030, 1040, 1050, 1060, 1070, 3020 3620-300, 3620-600 5020S, 5020M 5020EUKL, 5520 7010M, 7017M 8050, 8055, 9025	7010, 7017, 7030 7030D, 7050S, 7050M, 7060, 7060K 7070, 7080
Cylinder housing thread	1.156” x 32	1.156” x 32	2.000” x 27	N/A
Cam type	Yale	Yale	RRBLS	N/A
Standard finishes	Satin Chromium on Brass, ANSI 626, US26D Satin Brass, ANSI 606, US4			Available in silicon bronze finish only
U.L. 437 (Key Locks) listing	Yes	Yes	Yes	No
Master and grand master keying available	Yes	Yes	Yes	No
Affords most key combinations	X	X		
Affords most hand torque			X	X

Notes:

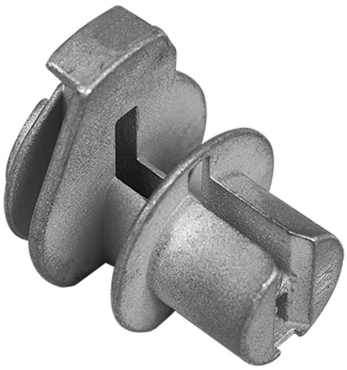
Notes:

* When specifying an RRBLS supplied key cylinder, specify FKC-MEDECO, FKC-ASSA, or Mogul and all necessary keying information after the lock model number. With lever tumbler locksets, there is no need to specify the key cylinder, since it is included.

** R.R. Brink includes as standard its lever-tumbler key cylinder with lock models 7010, 7017, 7030, 7030D, 7050S, 7050M, 7060, 7060K, 7070, and 7080. These lock models must be operated by this type of key cylinder.

Accessories

Paracentric Cylinder and Paracentric Key



Application

A complete line of Southern Steel brand, high-quality detention-type locks is available with lever tumbler cylinders. The cylinders are cast bronze and are operated by paracentric key. Master keying is not available for locks with paracentric cylinders.

Technical Data

Cylinders and Keys	1Silicon bronze/ copper alloy
Cylinder Size	1" Diameter (Nominal)
Cylinder Weight	.5 lb
Key Size	4-3/4" L x 5/32" TK
Key Weight	.2 lb
Tensile Strength	60,000 p.s.i
Yield Strength	20,000 p.s.i.
Rockwell Hardness	73 Minimum HRB

Accessories

203FS Full Surface Hinge and 203FP Food Pass Hinge

Application

For use on food passes, observation shutters and other small swinging doors where a medium duty hinge is required. Available with solid leaves for welded application or pre-drilled for fasteners. The 203FP is a version of the 203FS with a built-in stop to hold the food pass door in a horizontal position for use as a shelf.

Technical Data

Hinge Leaves	Steel
Hinge Pin	Cold-rolled steel
Size	3" H x 2-3/4" W x 1/4" TK
Weight	9 lb
Pin Size	1/2" diameter
203FS	No holes standard
203FP	Drill and countersunk for screws standard
Pin Tumblers	6 Tumblers per lock

205 Hinge

Application

Swinging doors at cells, corridors, plumbing chases, gates or other locations where a higher degree of security is required. Available in full surface or gap type configuration. Leaf configuration can be any combination of solid leaf for weld-on or pre-drilled leaf for bolt-on. Continuous non-removable hardened steel alloy pin. Smooth operating radial and thrust polymer bearings.

Technical Data

Size	5”H x 4-1/2” W x 1/2” TK (FS) 5”H x 6” W x 1/2” TK (GAP)
Weight	5 lbs. / Pin Size: 5/8” diameter. / Barrel Size: 1-1/2” diameter. / /Barrels/ Leaves: Cold rolled steel.
Finish	USP.

Exceeds all criteria for ASTM F1758 for detention hinges for Double Weight Grade 1. Weight capacity 800 pounds per weld-on hinge. **NOTE:** These hinges are not direct replacements for the Folger Adam #5 Hinge or the Southern Steel 205 Hinge due to barrel size difference.®

Accessories

204FMSS Full Mortise Hinge

Application

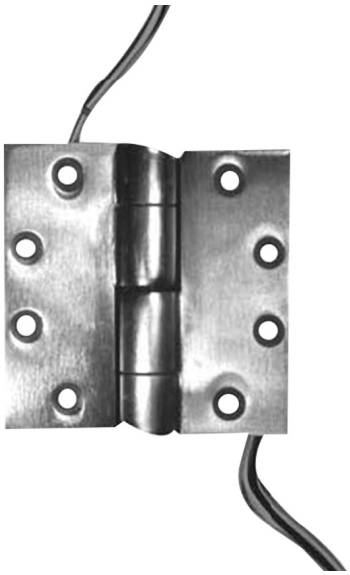
For swinging hollow metal doors. Each hinge features cast stainless steel leaves with integral security stud and non-removable stainless steel pin. Security fasteners are provided with each unit.

Technical Data

Standard Finish	Stainless steel - US32D
Size	4-1/2” x 4-1/2” x 3/16”
Weight	1.5 lbs.
Hinge Leaves	Cast stainless steel
Hinge Pin	Stainless steel
Pin Tumblers	6 Tumblers per lock

ASTM F1758 Certified Impact Test-Grade 1

204E Electric Power Transfer Hinge



Application

Designed to supply power from door frames to electric locks on hollow metal doors, the 204E Power Transfer Hinge contains five completely concealed and tamper proof Teflon™-coated conductors. Available in full mortise configuration only to be used with three 204FMSS institutional hinges. This is not a load-bearing hinge.

Technical Data

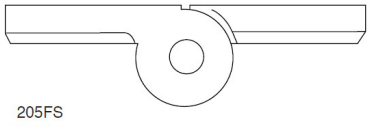
Standard Finish	US32D
Size	4-1/2” x 4-1/2” x 3/16”
Weight	1.6 lbs.
Hinge Leaves	Investment cast brass
Hinge Pin	5/8” diameter O.D. tubing steel
Electrical	1 amp capacity, 40 volts maximum

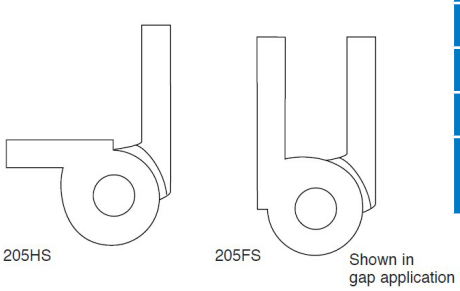
Accessories

205 Heavy Duty Hinge

Application

Swinging doors at cells, corridors, plumbing chases or other locations where a higher degree of security is required. Available in full surface, half surface or gap type configurations. Since these hinges are usually welded, standard hinges are provided without attachment holes. These hinges are drop forged of mild steel and feature heavy-duty thrust bearings, completely concealed and protected from tampering. Extremely strong and durable, one pair will support a standard plate door measuring 2'4" x 7'0" and weighing 250 pounds. Larger or heavier doors require a third hinge





Show in gap application

Technical Data

Standard Finish	US32D
Size	5" H x 5-3/4" W x1/2" TK (205FS)
Weight	7.25 lbs.
Hinge Leaves	Steel, with 1 oiling hole
Hinge Pin and Thrust Bearings	Cold-rolled, case-hardened steel

ASTM F1758 Certified Impact Test-Grade 1

590 Hinges Access Door

SIZE: 2'4" W x 3'4" H x 2-3/16" TK WEIGHT: 105 LBS.

Provides access to plumbing or utility spaces in security areas. Door is constructed of 10 gauge steel plate flanged 1- 3/4" all around, hung on two Model 203FS hinges and locked with a Model 1010A deadlock. Steel frame is 7 gauge formed plate. Specify type of wall construction to determine anchor requirements. Prime painted.

Accessories
Hinge series

#3 Access Panel Hinge

#3FP Food Pass Hinge

#4-1/2 Institutional Full Mortise Template Hinge

#5 Heavy Duty Prison Hinge (Available with mounting holes)

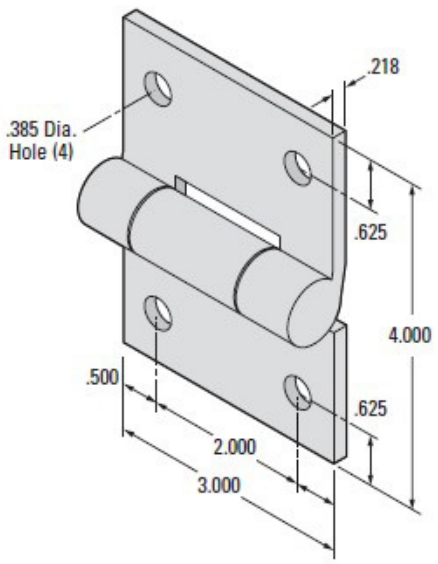
#5 Heavy Duty Prison Hinge
Application and Features
• Use with prison type grille and plate doors – surface mount.
• Barrel and leaves fabricated from cold rolled steel – welded assembly.
• Steel pin welded in-place.
• Anti-friction bearings.
• Standard finish USP – primed for paint.
• Security fasteners standard.
• Leaves available with screw holes or without to allow welding to door.

#3 Access Panel Hinge
Application and Features
• Use with electrical and mechanical system access panels or other small doors.
• Fabricated from cold rolled steel.
• Pin welded in-place.
• Security fasteners included.
• Finish – primed for paint.

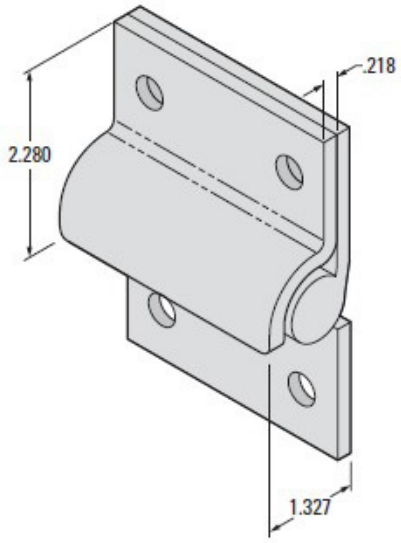
#3FP Food Pass Hinge
Application and Features
• Use with cell door food pass shutters. Stop added to the #3 hinge limits shutter opening rotation to 90° to form a shelf.
• Features same as #3 hinge.

#41/2 Institutional Full Mortise Template Hinge
Application and Features
• Use with conventional sized security hollow metal doors.
• Cast stainless steel leaves and welded in-place stainless steel pin construction.
• Hospital tips and integral anti-shear studs.
• Anti-friction bearings.
• Conforms to ANSI A156.7 template dimensions.
• Meets ASTM F1758 Grade 1 requirements.
• Finish – US32D (BHMA 630) satin stainless steel or USP - primed for paint.
• Security fasteners standard.
• Through-wire, electric power transfer model available 5 wire 18 awg.

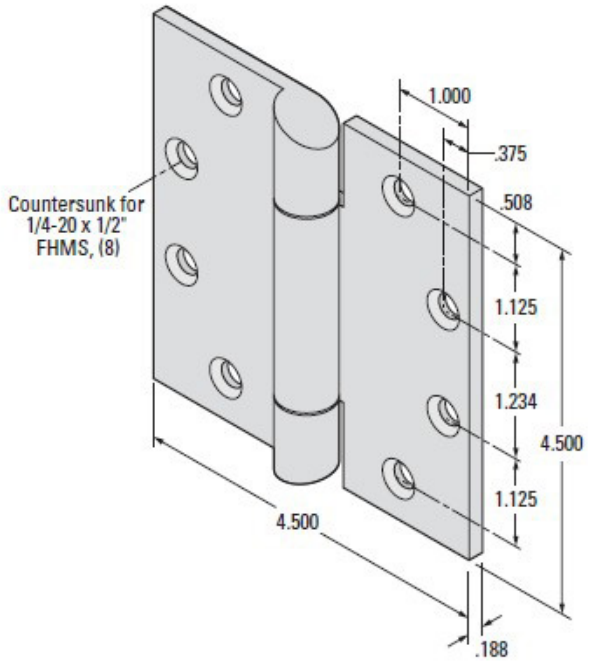
#3 Access Panel Hinge



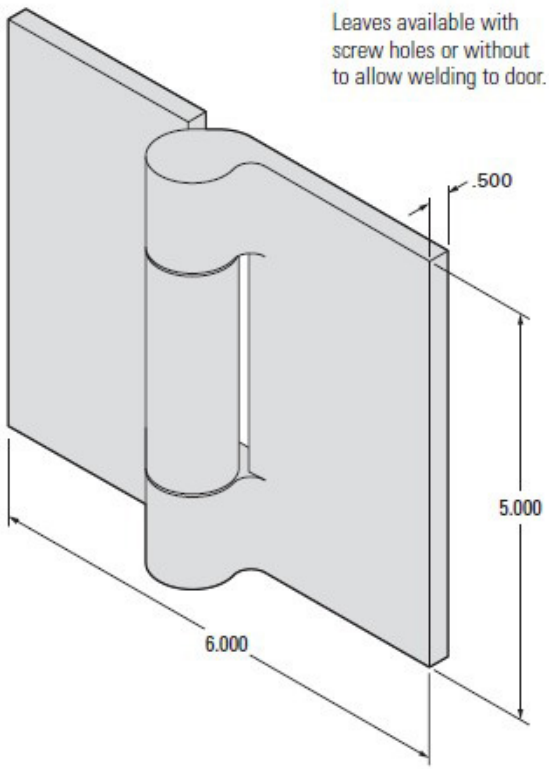
#3FP Food Pass Hinge



#41/2 Institutional Full Mortise Template Hinge



#5 Heavy Duty Prison Hinge



Accessories

212C Raised Door Pull

Application

Economical, attractive, general purpose door pulls designed for ease of operation on heavy doors and/or heavy traffic areas. Provided with security fasteners.

Technical Data

Standard Finish	US32D
Material	Cast brass
Size	8-11/16” L x 1-3/4” W x 2-3/8” Projection
Weight	1.3 lbs.

214S Recessed Door Pull Application

Application

The 214 is of adequate size for easily manipulating large, heavy doors. Often used on inmate side of doors. Provided with security fasteners. x 7’0” and weighing 250 pounds. Larger or heavier doors require a third hinge.

Technical Data

Standard Finish	US32D
Material	Cast brass
Size	SIZE: 5” H x 4” W x 1” D
Weight	1.5 lbs.

215C Knob Pull

Application

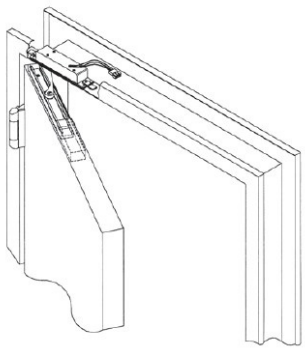
The 214 is of adequate size for easily manipulating large, heavy doors. Often used on inmate side of doors. Provided with security fasteners. x 7’0” and weighing 250 pounds. Larger or heavier doors require a third hinge.

Technical Data

Standard Finish	US32D
Material	Cast brass
Size	SIZE: 5” H x 4” W x 1” D
Weight	1.5 lbs.

Accessories

240CPS Concealed Position Switch



Left Hand Shown

Application

The 240CPS is used where a built-in door indicator switch is desired. This tamper proof unit is mortised into the door and frame. Indicator switch is mechanically activated when the door is moved from the closed position. A switch adjustment is provided to allow for varying field conditions. Provided with security fasteners.

Features

- Handed, Specify LH or RH
- 180° maximum swing
- 12” long, 16 AWG UL wire leads with plug connector
- An eccentric stud on the control arm provides a fine adjustment for varying conditions

Optional Features

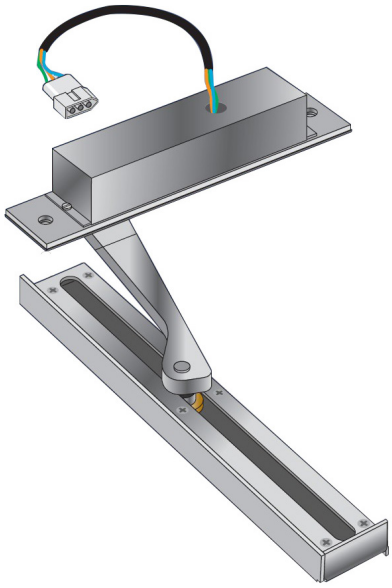
Double Circuit, Specify 240CPS-2 This feature allows for an additional circuit to be triggered by the 240CPS

Technical Data

Concealed (In Frame)	1-5/16” H x 1-1/2” W x 7-1/2” L
Control Arm	5” H x 5-3/4” W x1/2” TK (205FS)
Track (In Door)	3/4” H x 1-1/4” W x 12” L, extruded aluminum alloy
Weight	2 lbs.
Face Plate	Steel, with 1 oiling hole
Electrical	Switch is S.P.D.T. type with a rating of 5 amps at 30 VDC to 250 VAC

Accessories

201030 Door Position Switch



Application

A typical lock control panel monitor light and/or door interlock circuit is actuated by a “lock status switch” (LSS) and a “door position switch” (DPS). The LSS signals a deadlocked latch bolt and the DPS a closed door. When properly wired together, these switches control indicator lights to signal a secure door (i.e. closed and deadlocked) and/or control an interlock which prevents a door(s) from being electrically unlocked if another door in the group is unlocked. In the absence of a DPS, the aforesaid circuits are controlled only by the LSS within the lock case. Normally, the LSS is tripped when a door is closed and the latch bolt is deadlocked by depression of the auxiliary latch (a.k.a. roller or trigger bolt). (When depressed, the auxiliary latch serves to automatically deadlock the latch bolt.) However, an indication/interlock circuit controlled by the LSS only can be compromised easily. That is, when a door is open, the auxiliary latch can be depressed manually which wrongly signals a secure condition. On the other hand, with the LSS/DPS combination, a door must be closed and deadlocked to obtain a secure signal. Thus, for positive control of door monitor and/or interlock circuits, a DPS is a requirement.

he Model 201030 DPS is actuated mechanically by movement of the door. With a 4’-0” or narrower door and ANSI door/frame installation tolerances, the switch will trip when the leading edge of the door is within 1/2” of the door stop. It is recommended that the Model 201030 be wired in combination with a lock bolt status switch (LSS) to provide a reliable, tamper resistant control panel monitor (e.g., closed and deadlocked green light) and/or interlock circuit.

The 201030 has two components: 1) a switch unit that mortise mounts in the door frame header with an arm that is connected in the field to, 2) a track that mortises into the upper door edge. When the door is closed and locked, all components are concealed which eliminates the possibility of tampering. A door can be opened to a full 180°. The 201030 has an automatic switch adjustment feature that compensates for differing door and frame alignments (e.g., hinge gauge dimension) without the need for tools or trial and error procedures. Simply closing a door self-adjusts the switch setting.

220MRS Magnetic Switch

Application

The 200MRS is used where a built-in door indicator switch is desired. This tamper-proof unit is mortised into the door frame. An actuating magnet is recessed into the door edge. Provided with security fasteners.

Technical Data

Size	4-7/8” L x 1-1/4” W
Weight	1 lb.
Electrical	24 volts (AC or DC)

200MRS TB MAGNETIC SWITCH

Triple Bias Switch

Accessories

534 Door Position Switch

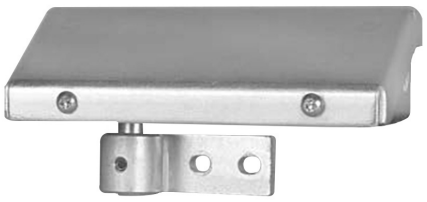
Application

Model 534 is designed for use as part of a remote electric unlocking and indication system. When wired in series with the indication switches of an electric lock, the switch provides a secure indication of door position at a remote control panel or control console. Fits a standard 2” frame header.

Standard Features

- Pre-set adjustment – The switch is factory set to trip when a 2’-6” door moves 3/8” from its stop.
- Adjustable trip point – Simple adjustments permit use with various size doors.
- Sloped-top design – Precludes hiding of contraband.
- Tamper-resistance – Housing baffles combine with use of tamper-resistant and security screws.
- Heavy duty construction – Case and cover of 10-gauge hot rolled steel; switch actuator formed of 13-gauge, zinc plated cold rolled steel; baffle of 16-gauge hot rolled steel.
- 180 degree door swing.
- Universal mounting – The surface actuator and unique trip mechanism work on all applications, and may be field reset if needed.
- Lower cost installation – Surface mounted door bracket mounts on a hollow metal door.
- Plug connector – Plug with 9” of wire allows pre-wiring of the junction box.
- Finish – Zinc plated.

220A Door Position Switch



Application

The 220A switch actuates a remote lamp indicator or an audible signaling device the moment a swinging door is moved from the fully-closed position. Enclosed in a 10 gauge galvanized steel housing, the 220A is designed for installation on the door frame above the top hinge. A pivoting operator that actuates the switch is attached to the door face with special security screws. The 220A is designed for use on doors with 4 -1/2” or 5” hinges. Specify hinge size and type (220A-5, 220A-4, etc.). Provided with security fasteners.

Technical Data

Size	6-5/16” x 2-1/2” x 1-7/8”
Weight	3 lb.
Electrical	Switch rating SPDT 15 amps at 125 VAC or .5 amps at 125 VDC

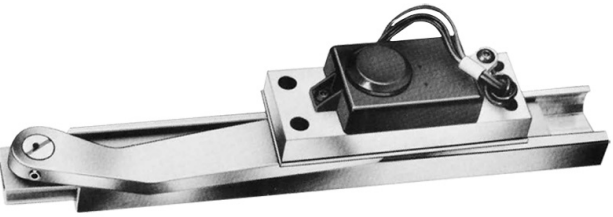
200MRS TB MAGNETIC SWITCH

Triple Bias Switch

Accessories

523 Fully Concealed Door Position Switch

Application



This switch is recommended for any indication/interlocking circuit, in conjunction with the indication switches for locks, for producing a “secure” signal that a door is closed and locked – primarily for medium/minimum-security doors. Ideal for all in-swinging door conditions, and can be used on either interior or exterior doors.

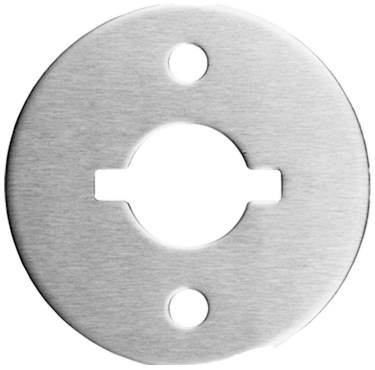
Standard Features

- Mortise installation – Switch body mortises into the header of a standard, 2” high door frame and the track mortises into the top edge of a door.
- Fully concealed – Switch body and track are inaccessible when the door is closed.
- Self-concealing slide and track – low-friction, nylon slide and extruded, aluminum track with a natural finish.
- Adjustable switch – An eccentric stud on the connecting arm provides a fine adjustment of the switch for variations in field conditions.
- Plug connector – A two-piece, electrical connector which permits field wiring, without having the switch present, and allows removal of the switch, without disturbing the field wiring. The receptacle of this connector has 9” long wire leads and may be sent to the job site for prewiring of the opening. When the switch is installed, its connector simply plugs into the already-wired, field receptacle.
- Tamper-resistant screws are used for exposed locations.
- Handed – Specify either left hand (LH), for left-hand and right-hand reverse doors; or right hand (RH), for right-hand and left-hand-reverse doors.
- Supplied with mounting screws, wiring diagram, template information and installation/operation instructions

Operation

The indication switch is factory set and trips when a 3’-0” wide door moves approximately 3/8” away from the doorstop. (A 1/4” allowance of door movement is built into this setting, eliminating a false indication which may be produced by shaking the door.) A fine adjustment for variations in field conditions is provided by an eccentric stud on the connecting arm. As the door is opened, the slide conceals its opening in the track. When the door is closed, the unit is fully concealed.

Accessories
Escutcheon



218 Escutcheon

The 218 Escutcheon is used to provide a close fit between a paracentric cylinder and the keyhole. It also protects the finish around the keyhole from chipping. The one-way escutcheon prevents the key from being extracted from the cylinder while lock is in the unlocked condition.

Technical Data

Finish	US32D
Material	Stainless Steel
Size	3" DIA x .105" TK
Weight	2 lbs.

Cylinder Shield

219 Cylinder Shield

The 219 Cylinder Shield mounts over the paracentric cylinder on exterior doors to protect the keyhole from dirt, snow and other foreign elements. Provided with security fasteners.

Technical Data

Finish	US32D
Material	Stainless Steel
Weight	2 lbs.

Accessories
Head or food bolt

10105 Head or Foot Bolt

10105 Head or Foot Bolt Receptacle

10105 Key

Application

For the inactive leaf of pairs of swinging hollow metal, grating or steel plate doors.

Function

Actuated by means of a “spanner” type key which extends the bolt into appropriate receptacle in the floor or jamb head. A special foot bolt receptacle is available for floor installations.

Technical Data

Standard Finish	Galvanized
Cover	Cold-rolled steel plate
Case	Ductile iron
Lock Bolt	Cold-rolled steel
Spanner Key	Cold-rolled steel
Size	5-3/8” H x 2-3/4” W x 1-7/8” TK
Weight	5.5 lbs
Bolt size 1"	Diameter
Bolt Throw	3/4"

10105R FLOOR RECEPTACLE

Size	3” H x 1-5/8” DIA x 1-5/8” sq. Base
Weight	2.25 lbs.

Options

- Head bolt keeper Specify: “10105B” x USP
- Head bolt keeper switch Specify: “10105CL” x USP
- Foot bolt receptacle Specify: 10105R

Hm - Mounting for Halllow Metal Doors

P - Mounting for Plate doors

G - Mounting for Grating doors

Application

Used for mounting mechanical paracentric locks on hollow metal, steel plate or grating doors. Note: The model number for a specific lock mounting is determined by adding “HM”, “P”, “G” as a prefix to the lock model number i.e., HM-1080A-1, G-1070A-2.

Technical Data

Size	Varies with application
Weight	Varies with application
HM-Mounting For Hollow Metal Doors:	7 gauge steel plate is attached to door with security fasteners. Comes with 218 Escutcheon. For two-way locks, a second escutcheon is required.
P-Mounting For Steel Plate Doors	Formed 10 gauge steel plate is attached to door with security fasteners or rivets.
G-Mounting For Steel Grating Doors	Welds to grating door. 7 gauge steel cover is attached to lock mounting with security fasteners. Comes with 218 Escutcheon. For two-way locks, a second escutcheon is required.

Accessories
Safety Mirrors

SIZE: 17-1/4” H x 11-1/4” W x 1/4” TK Stainless steel face plate is polished to a mirror finish which approximates that of glass. One piece formed mirror and frame mount directly to wall. Mirrors are designed to accept 1/4-20 flathead security fasteners.

Options

STEEL EMBED PLATE: Can be supplied by special order for installation on poured concrete or masonry walls.

Safety Hook and Shelf

407 Safety Hook

408 Shelf

407 SECURITY CLOTHES HOOK

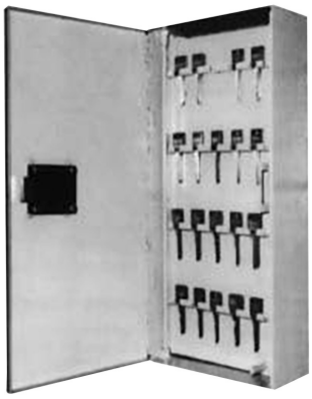
SIZE: 4” H x 4” D x 2-21/2” W
This special hook is designed with a collapsible ball joint. Constructed of 14 gauge stainless steel, the 407 can be riveted to wall plates or steel walls, or it can be attached with the provided fasteners. US32D finish.

408 SHELF

SIZE: 6” H x 8” D x Specified Length
WEIGHT: varies (5.4 LBS. for an 8” shelf)

408 SHELF

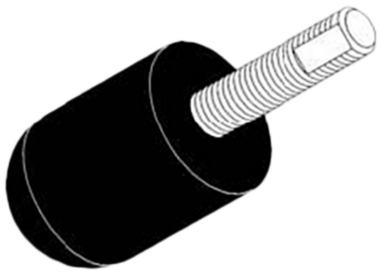
Constructed of 12 gauge steel plate, the 408 Shelf is flanged and gusseted for strength and neat appearance. It is available in 8”,16” and 24” lengths, with or without safety clothing hooks.
Specify: 408-8 for 8” shelf / 408-16 for 16” shelf /408-24 for 24”
If shelf safety clothing hooks are required under shelves, add the suffix “S” to the above numbers (e.g. 408-24S). One hook is provided for each 8” of shelf length.



Key Cabinets

6-60 KEY CABINET (60 key capacity)
6-300 KEY CABINET (300 key capacity)
6-720 300 KEY CABINET (720 key capacity)
SIZE: 16” W x 24” H x 6 5/8” D
WEIGHT: 6-60: 55 LBS. 6-300: 85 LBS. 6-720: 195 LBS.
Key cabinets provide security and control of a large number of para-centric prison keys, or Mogul-type keys. Cabinets may be provided for surface or recessed mounting. Keys are held on two sides of a swinging panel within the enclosure. A printed index is provided for recording the location of each key, and the lock it operates. Available with a Southern Steel 1010A or 1010AM lock.

420 Detention Door Stop



420 Detention Door Stop

SIZE: 2” Dia. X 31/2” Bumper 5/8-11 X 21/2” Post
Material: 90 durometer silicone rubber body with threaded steel post / Style: Wall or floor mount Finish: Black / Mounting: Embed in concrete or masonry Heavy duty detention-grade door stop for installation in either wall or floor with epoxy resin adhesive. Threaded steel anchor post.

Accessories

605 Pistol Locker (Tilt-out)

SIZE: 1’ 10-1/2” H x 6” D x Length Required
WEIGHT: 48 LBS. (FOR A 3-COMPARTMENT LOCKER)
Each compartment of the Model 605 tilts out for access on
a continuous hinge. Construction is 7 to 10 gauge steel Compartments are 6” H x 1’ 1-1/2” W x 4-1/2” D, bottom-lined with moth-proofed felt and locked with an individual keyed snaplock. Master keying is available by special order. Can be surfaced mounted or built in. Indicate type of mounting required. Prime painted.
Specify: 605-3: 3-compartment/ 605-6: 6-compartment /605-9: 9-compartment/ 605-12: F12-compartment

600 Pistol Locker

SIZE: 1’ 4” x 10” D x Length Required
WEIGHT: 35 lbs. (FOR A 3-COMPARTMENT LOCKER)
Pistol lockers are available in combinations of three compartments (up to a total of 12 compartments) in a single unit. Construction is 10 to 14 gauge steel. Each compartment is 5-1/4” H x 10” W x 10” D, bottom-lined with moth-proofed felt. Doors swing on continuous hinges and each has a separately keyed cam lock. Master keying is available by special order. These units can be surface mounted or built into a wall. Indicate type of mounting required. Prime painted.
Specify: 600-3: 3-compartment/ 600-6: 6-compartment
600-9: 9-compartment/ 600-12:F12-compartment

201040 Latch Keeper Switch

For use with RRBLS door mounted, key operated mortise lock models 1040,1060 and 1070 to indicate engagement of the latch in the keeper. It is recommended that the 201040 be interconnected with an RRBLS door position switch to reduce the possibility of a false reading of latch engagement with a door ajar. (Note: Open door hand manipulation of the 201040 actuator paddle is an unavoidable possibility.) All parts of the 201040 are of stainless steel stampings. The switch (form C) rating is 10 amps @ 250VAC. When ordering, advise mating lock model (i.e. 1040/1060 or 1070).

201010 Tapered Housing Pushbutton Switch

The 201010 pushbutton assembly mounts in the door frame lock pocket opposite the key cylinder. Since there are no exposed fasteners, it is irremovable from the exterior. The 201010 was designed originally for use in a correctional facility as an inmate cell door unlock/guard call switch, in conjunction with an RRBLS electromechanical lock. However, it is applicable wherever its unique mounting can be utilized to provide tamper resistance. The switch has an encapsulated DPDT configuration with a rating of 6 amps @ 120VAC and 4 amps @ 24VDC. The wire leads are furnished with quick disconnect plugs. Standard switch holder finishes are ANSI 606 (US4) and ANSI 626 (US26D).

Wood Door Strike Reinforcement

A strike reinforcement is recommended when an RRBLS jamb mounted electromechanical lock is used with a solid core wood door. This door edge mortise, wrap-around design provides a rigid metal mounting for the lock strike plate. It enhances the strength of the wood door locking assembly as compared to direct screw attachment of the strike. The standard unit is 24” long and fabricated from stainless steel for either a 1-3/4” or 2” thick door (specify). Custom made lengths are available as specified.

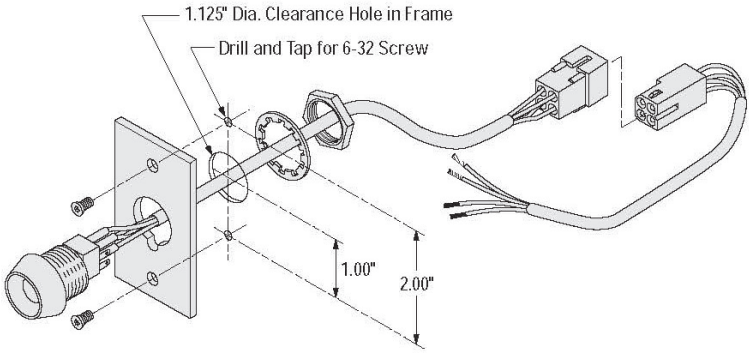
201044 Recessed Pushbutton Switch

The 201044 pushbutton assembly is identical to the No. 201010 except that it recess mounts into the frame. *Note: The frame supplier must provide an internal welded-in-place mounting plate (see schematic illustration over).*

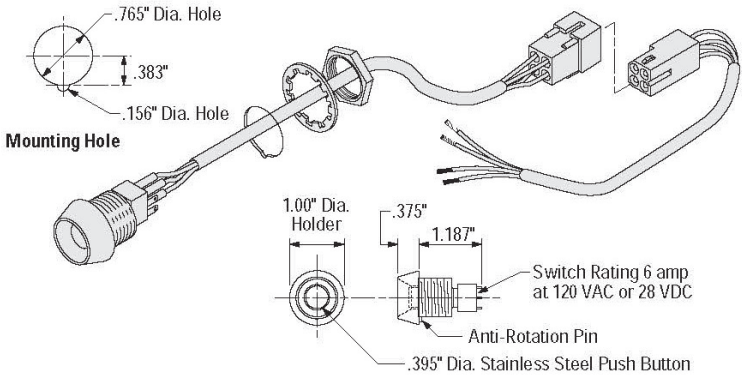
201028 Surface Mounted Pushbutton Switch

The 201028 pushbutton assembly is identical to the No. 201010 except that it surface mounts with exposed fasteners, ordinarily on the exterior trim of a door frame. When ordering, specify Phillips or pinned Torx head mounting plate screws.

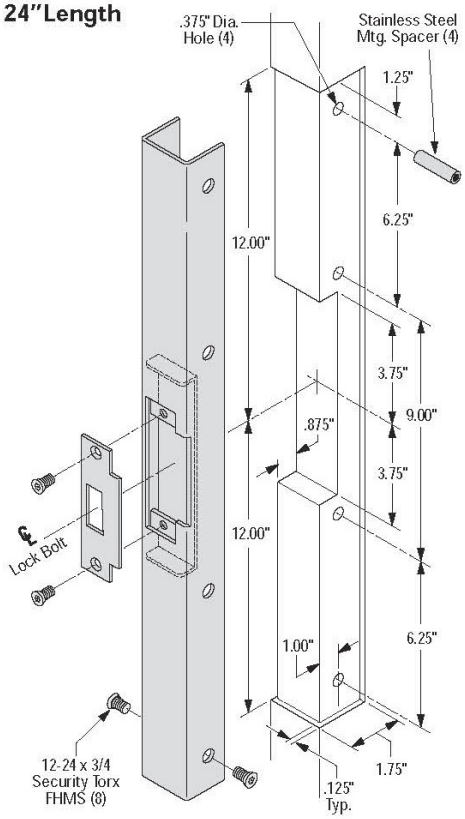
201028 – Surface Applied Pushbutton



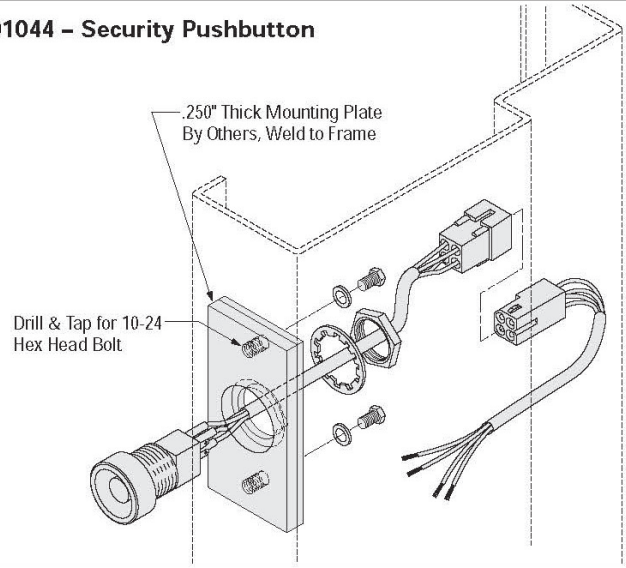
201010 – Security Pushbutton



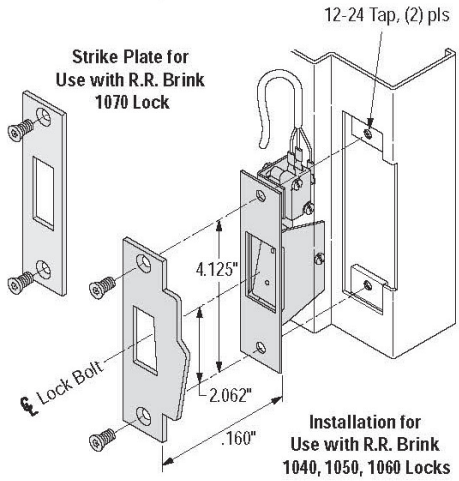
Wood Door Strike Reinforcement
24"Length



201044 – Security Pushbutton



201040 – Keeper Switch



Note:
1. Consult factory for complete frame preparation on all locking accessories. Do not use the above drawings for construction.

APPLICATION

A typical application for a key switch in a correctional facility is for proximity key control of an RRBLS electromechanical sliding or swinging door lock. A key switch can provide an additional security measure where key unlocking of electric locks is routine. A key combination different from the lock's manual key, which can be safe-guarded for use during power interruptions only, operates the key switch. Also, the wiring of the key switch is configured to allow on and off power switching from a central control station. Thus, if the key to the switch cylinder is lost or seized, the key switch can be disabled to prevent unauthorized unlocking of the door.

201095 – Narrow Mortise Cylinder Key Switch
This narrow profile key switch is designed to mortise mount in the 2" trim surface of a standard hollow metal door frame.

• Units can be ordered with one or two momentary (MO) or maintained (MA) action SPDT switches or a combination for actuation by clockwise and/or counter-clockwise key rotation to suit the application. Specify No. 201095 – 1MO or 2MO, or No. 201095 – 1MA or 2MA, or No.201095 – 1MO & 1MA, respectively.
• Electrical rating: 250VAC, 5A resistive; 30VDC, 3A inductive & 5A resistive.
• Accepts any manufactures standard 1-1/8" long mortise cylinder with a "Yale" shape cam.
• When ordered, can be supplied with quick disconnect wire leads (i.e. not standard).
• Optionally available with two LEDs (typically green and red).
• Standard faceplate finish – satin stainless steel (ANSI 630 , US32D).

201110 – Standard Mortise Cylinder Key Switch
This key switch is designed to mount in a 2" x 4" electrical outlet box - 2" minimum depth (e.g. Raco handy box No. 674, shown, or equal). Features are identical to Model No. 201095.

201065 – Paracentric Key Switch
This key switch is ordinarily used in jails and prisons to complement an RRBLS lever tumbler keying system.

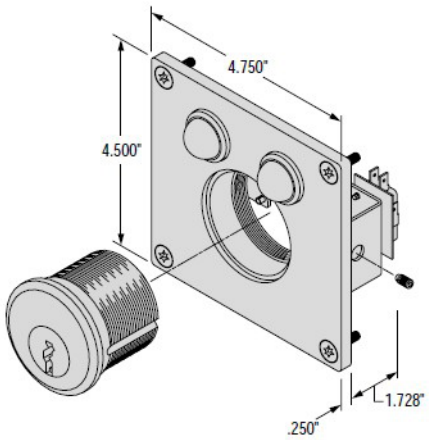
• Normally fitted with two momentary (snap) action SPDT switches (Form C) for actuation by clockwise and/or counterclockwise key rotation. Electrical rating: 125/250VAC, 15A resistive. Standard models available in one (No. 201065-1) or two side (No. 201065-2) keying.
• Furnished with quick-disconnect wire leads.
• Electroplated steel parts.

Accessories
Key Switches

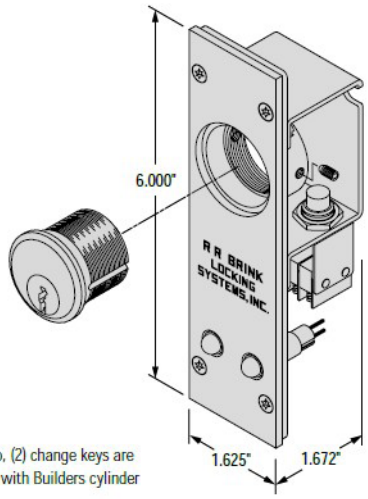
201070 – Mogul Cylinder Key Switch

This key switch employs an institutional style Mogul cylinder.

- Standard model accepts RRBLS Mogul cylinder (2.000” x 27 thread x 1-3/4” long x Yale type cam). The 201070 can be adapted for use with other manufacturers’ Mogul cylinders by special order.
- Normally fitted with two momentary action SPDT switches (Form C) for actuation by clockwise and/or counterclockwise key rotation. Electrical rating: 125/250VAC, 15A resistive.
- Optionally available with one or two shatter resistant LED’s in green and red as specified.
- Furnished with quick-disconnect wire leads.
- Standard faceplate – electroplated steel.

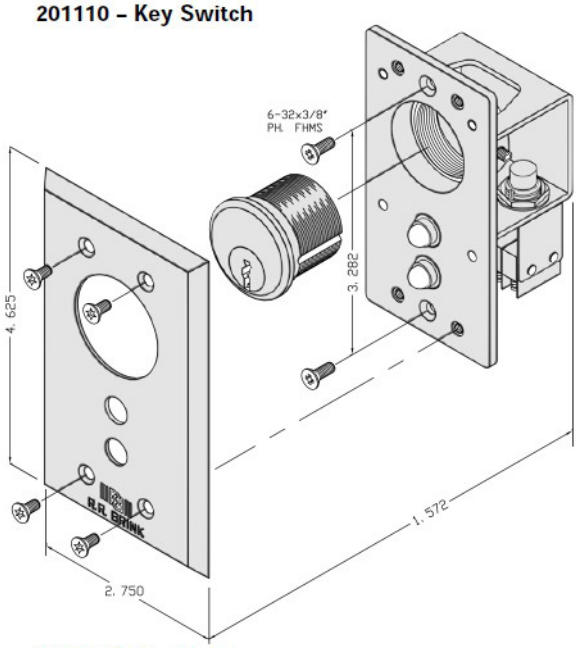


Note: Keys for Mogul cylinder must be ordered separately.



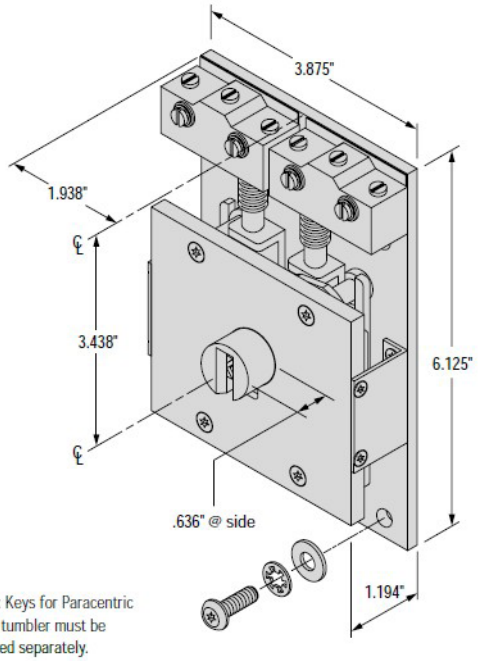
Note: Two, (2) change keys are furnished with Builders cylinder

201110 – Key Switch



Note: Two, (2) change keys are furnished with Builders cylinder

201065 – Paracentric Key Switch



Note: Keys for Paracentric lever tumbler must be ordered separately.

Accessories

900 Series Momentary Pushbutton

Model 907

Model 906

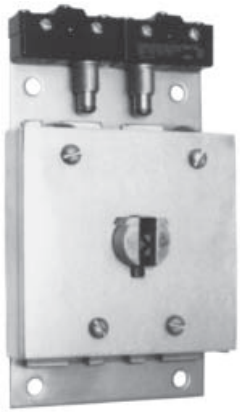
906 Momentary Push Button

RATING: 10 amp USAGE: Heavy-duty switch for electric locks, except for functions requiring a maintained contact switch. Suitable for inmate use. Finish US26D.

907 Push Button

RATING: 6 amp USAGE: This function is the same as the 906. Faceplate is not available. The 907 pushbutton becomes an integral part of the frame. Finish US32D.

900 Series Keywitches



Model 930A

930 THREE POSITION MAINTAINED KEYSWITCH, PARACENTRIC

RATING: 15 amp USAGE: Extra heavy-duty keyswitch for sliding door locking device. Galvanized finish. Utilizes paracentric key and cylinder. Specify one or two way keying.

936 THREE POSITION MAINTAINED KEYSWITCH, MOGUL

RATING: 15 amp USAGE: Heavy duty keyswitch for sliding door locking devices. US26D is standard cylinder finish, US32D is standard plate finish. Utilizes institutional (mo-gul-type) key and cylinder.

Glossary

ABBREVIATIONS

AC:	Alternating Current
ASSW:	Architectural Security Switch
BH:	Button Head
C	Half Cycle Function
CPS	Concealed Door Position Switch
DC	Direct Current
DPS	Door Position Switch
E	Solenoid
EED	Emergency Exit Device
EER	Emergency Exit Release
ELC	External Local Control
FH	Flat Head
FP	Food Pass
FS	Full Surface
G	Bar Grating
GAP	Full Surface Hinge / Reversed mount on Grating Doors
HM	Hollow Metal
HS	Half Surface
K	Standard Knob
KCE	Key Cylinder Extender
KS	Key Switch
LEK:	Local Electric Key Switch

Glossary

Abbreviations

M:	Motor
MKH	Mechanical Key Hold Back
MLH:	Maintained Latch Hold Back
MRS:	Magnetic Reed Switch
NA:	Not Applicable
NC:	No Change
NL:	No Latch
P:	Plate
POR:	Price On Request
SD:	Dead Lock Indication
SK	Safety Knob
T6	Six Tumbler Paracentric Lock

Standard Finishes

G90 Galvanized	Produced to ASTM A653
USP	Prime Painted
US26D	Satin Chrome Plated
US32D	Stain Stainless Steel
Zinc Plated	Produced to ASTM B633

Glossary

General

Cylinder Extender:	A device added to a cylinder to provide additional length.
Dead Lock Indication:	Directional arrow indicates if lockbolt is extended or retracted.
Fail Safe:	Upon loss of power, all electric locks will open.
Fail Secure:	Upon loss of power, all electric locks will remain locked
Fish Tail:	Another term for a bottom door guide used a sliding door.
Grating:	A term used to describe a bar type partition, door and grill.
Hollow Metal:	A term used to describe doors and frames which are made a lighter gauge of material, usually 21 gauge or less
J-Hook:	Another term for a closure plate used on sliding door systems.
Jamb:	A term used to describe the vertical members of a door frame.
Mortise:	An opening made to receive a lock or other hardware
Mylar®:	Mylar® is a registered trademark of the DuPoint Chemical Company.
Narrow Jamb Lock	A lock mounted in a two inch hollow metal frame.
Plate:	A term for heavier gauge materials used to form doors and frames.
Plug Connector:	A plastic female and male plug mechanism attached to the end of the wiring used in electric locks of other electric mechanisms for a quick and easy disconnect
Q-LON2:	Q-LON2® is a registered trademark of Schlegel® Corporation
Safety Knob:	A cone shaped knob
Sliding Door:	A door which is hung on rollers and move horizontally to open or close
Swinging Door:	A door which is hung on hinges or pivots
Teflon®:	Teflon® is a registered trademark the DuPont Chemical Company
UL®:	UL® is a registered trademark of Underariters Laboratory

Glossary

Bolts

Cremone Bolt:	A bolt designed to give locking at the head, foot and in the center of the door, providing a three point locking system for specialty-type doors in high security applications.
Extended Bolt	Used for hollow metal or stop side mounting.
Head and Foot Bolt	Bolts which are mortises at the top of the door and the bottom of the door, locking into the frame head and to the floor. These bolts can only be used on pairs of doors and Dutch doors.

Electronics

AMP (Ampere)	Units of measurement of the rate of flow of electrical current.
Backplane:	Printed circuit board.
BUS:	A conductor to which two or more circuits can be connected.
Continuous Duty:	Device is designed to operate 100% of the time.
Interlock:	A door control scenario that prohibits electrical operation of selected doors if a door in the defined group is open or unsecure.
LED:	Light emitting diode.
Maintained Switch:	A switch that stays in the contact position when actuated and released.
Momentary Switch:	A switch which makes contact only while being actuated and held.

Hinges

Electric:	A transfer hinge. This hinge transfers power from the jamb to an electric device that is normally mounted in or on the door.
Food Pass:	A hinge which has a 90 degree stop applied to be used with food pass doors.
Full Mortise:	Hinge leaves which are normally mortised flush–one into the door, and one into the frame.
Full Surface:	Hinge leaves which are both surface mounted on the door and the frame.
Full Surface/Gap:	A hinge designed to be used with bar grating doors and partitions.
Half Surface:	A hinge that has one leaf mortised into the frame and one leaf surface mounted on the door.

Glossary

Keys and Cylinders

Mogul Cylinder:	A pin tumbler cylinder that is approximately 2 inches in diameter. Designed to operate certain types of detention locks.
Mogul Key:	Designed to activate the pin tumblers of a mogul cylinder.
Paracentric Cylinder:	A cylinder designed to accept a bit key and operate with wafer tumblers. Also referred to as a nose.
Paracentric Key:	A large bit type key that is normally used with maximum security detention locks using wafer tumblers to activate the lock mechanism.
Pin Tumblers:	Small cylindrically shaped pins used in the mogul cylinder to create the different key codes.
Steel Engaging Ball	A small ball that is placed in the mogul cylinder, against which the key rides allowing the movement necessary to operate the cylinder.
Wafer Lever Tumbler:	Thin brass plates that are spring activated, functioning with the paracentric key and the paracentric cylinder to allow the lock to be unlocked or locked.

Locks

Deadlock:	A square bolt lock which is always either in the locked or the unlocked position.
Deadlock Actuator:	A mechanical means of tripping a deadlock cam on snaplocks.
Electro Mechanical:	Locks that are operated both manually and electrically.
Hook Bolt:	A bolt that is made into the shape of a hook that is normally used on locks for sliding doors.
Mechanical:	Locks that are only operated manually.
Mortise:	A lock which is installed into the edge of the door with the trim and cylinder being mounted into the lock through the face of the door.
Pneumatic:	A lock which is operated both manually and by compressed air.
Snaplatch:	A beveled bolt lock which latches upon closing the door.

Glossary

Plates/Mountings

Cover Plate:	A plate used to cover the lock mounting pocket built into the jamb by the frame manufacturer.
"G" Mounting	A box used to mount mechanical locks on bar grating.
HM Mounting Plate:	A plate used to mount mechanical locks in hollow metal doors.
"P" Mounting:	An encasement used to mount paracentric keyed mechanical locks on plate doors.

Strikes/Keepers

Keeper:	A flat plate normally mortised into the jamb and used with square bolt dead-locks.
Keeper/Strike Switch:	A small switch mounted behind the keeper or strike, that gives monitoring indication when the bolts are projected into the strike or keeper.
Strikes:	Normally flat plates or cast items that are used with snap bolt locks. Some strikes have lips, whereas keepers do not.

Switches

Key Switches	Key operated switches normally used to activate the electrical or pneumatic functions of detention locks.
Push Button:	A contact switch which can be used to create a signal or activate the electrical or pneumatic functions of detention locks.