

Key: Mogul
Door: Swinging
Security Level: Medium/Maximum

FOLGER ADAM ELECTRIC LOCKS

120E DEADLATCH

Description

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

- 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.

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.

Knob release(2): 120E 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. For locks keyed both sides, available cover side only.

Note: Key cylinders for locks with key holdback feature must be installed at the factory. This function is not UL Listed for Fire Doors.

Testing

120E Series Deadlatches and Maxi-Mogul® Key Cylinders have been tested to 1,000,000 operations.

Standards Compliance

Series 120E locks are UL Listed as Burglary-Resistant Mechanisms and Fire Door Accessories to a three-hour rating. Maxi-Mogul® Key Cylinders meet UL437 requirements.

ASTM F1577 Grade 1 - Impact

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.



120E DEADLATCH

Optional Features

- **Optional solenoid voltage** – 230 VAC, 60Hz.
- **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 and mechanically. The electric operation may be cancelled 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 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".

The chart at right shows applicability of above options to all 120E Models.

For complete details, see How to Specify in this section.

Specifications

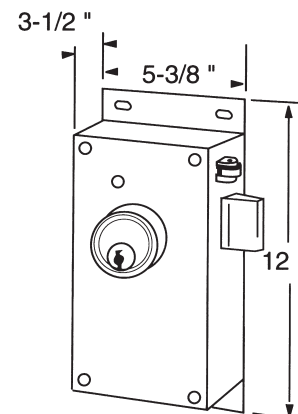
- **Case and cover** – 10 gauge steel.
- **Latchbolt** – Investment-cast stainless steel hardened, 1" throw.
- **Deadlock lever** – Stainless steel, adjustable for door gap variations.
- **Bolt opening** – Does not allow access to mechanism.
- **Roller bolt** – Investment-cast stainless steel with stainless steel roller.
- **Operating lever** – Stainless steel to operate with solenoid.
- **Strike** – Investment-cast stainless steel, attached with screws in two directions.
- **Solenoid** – 120 VAC continuous duty with stainless steel guides; 230VAC optional.
- **Springs** – Stainless steel.

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.

Dimensional Data

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



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		No
120E-3-04	Key Holdback (3a)		X				X		No
120E-3-07	Key Holdback (3b)		X	X			X		No





HOW TO SPECIFY 120 SERIES LOCKS

1 2 3 4 5 6 7 8 9
126 E - 1 - 01 x M0-US26D x LHRB x 120 VAC x LEK-2 x E3

Keying Location

1
Case Side

122
Cover Side

126
Both Sides

Basic Models Deadlatches

E
Solenoid

M
Full-Rotation Motor

MC
Two-Position Motor

Deadbolts

ED
Solenoid

RUP
Solenoid
(Roll-Up Door)

Operation Series

1
Standard

2
Knob Release

3
Holdback by Key
(one side only)

Switch Functions

01
Deadlock Indication Switch With Latchback

04
Deadlock Indication Switch No Latchback

07
Electric Holdback

Key Cylinder and Finish

Folger Adam Mogul

M
Prep. Only

M0-US26D
110 Mogul Cylinder with US26D Finish

M1-US26D
190-1 Maxi-Mogul® Key Cylinder with US26D Finish

190-A
ASSA Mogul Key Cylinder with US26D Finish

190M
Medeco Mogul Key Cylinder with US4 Finish

Available Key Cylinder Finishes:

US26D (standard)
US26D

Lock Handing* Deadlatches

LHRB
Left Hand Reverse Bevel

RHRB
Right Hand Reverse Bevel

Deadbolts

LH
Left Hand

RH
Right Hand

*For application handing see the handing chart on the following page.

Operating Voltage

Solenoid
120 VAC
230 VAC

Motor
120 VAC
24 VDC

LEK Feature

LEK-1
Case Side

LEK-2
Cover Side

LEK-6
Both Sides

Key Cylinder Extension

E3
3" Long

E4
4" Long

E5
5" Long










HOW TO SPECIFY 120 SERIES LOCKS

Specify circled swing number when ordering.

126 LOCK LOCK COVER HINGE SIDE EXTENDED MOUNTING COVER STOP SIDE KEYED BOTH SIDES POCKET COVER PLATE HINGE SIDE			
126 LOCK EXTENDED MOUNTING COVER HINGE SIDE KEYED BOTH SIDES POCKET COVER PLATE STOP SIDE			
122 LOCK LOCK COVER HINGE SIDE EXTENDED MOUNTING COVER STOP SIDE KEYED HINGE SIDE POCKET COVER PLATE HINGE SIDE			
122 LOCK EXTENDED MOUNTING COVER HINGE SIDE KEYED HINGE SIDE POCKET COVER PLATE STOP SIDE			
121 LOCK LOCK COVER HINGE SIDE EXTENDED MOUNTING COVER STOP SIDE KEYED STOP SIDE POCKET COVER PLATE HINGE SIDE			
121 LOCK EXTENDED MOUNTING COVER HINGE SIDE KEYED STOP SIDE POCKET COVER PLATE STOP SIDE			

LEGEND

-  = INDICATES KEYED SIDE (OR SIDES)
-  = SYMBOLIZES LOCK POCKET COVER PLATE
-  = SYMBOLIZES LATCH BOLT
(DEADBOLT NOT SHOWN FOR CLARITY)
-  = SYMBOLIZES LOCK CASE
DOUBLE LINE SYMBOLIZES FRONT COVER
-  = THICK LINE SYMBOLIZES REINFORCED
STEEL FOR LOCK AND POCKET
COVER PLATE MOUNTING

