

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

120M DEADLATCH

Description

Series 120M Deadlatches are pin tumbler, motor-operated electro-mechanical locks for swinging doors.

Specify keying as follows:

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

Applications

Series 120M Deadlatches are jamb-mounted and designed for use in medium or maximum security applications to secure cell doors, sallyports, corridors or entrance doors. The motor provides smooth, quiet operation and positive locking. 120M locks are designed to be part of an electrical system with remote operation and monitoring. They afford flexibility and safety to institution staff.

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.

Testing

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

Standards Compliance

All Series 120M locks are UL Listed as Burglary-Resistant Mechanisms and Fire Door Accessories to a three-hour rating, except Key holdback function, which is not Fire rated.

Maxi-Mogul® Key Cylinders meet UL437 requirements.

ASTM F1577 Grade 1 - Impact

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 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.



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- **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 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 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".
- **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** – 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 or 24 VDC optional, synchronous-type gearmotor.
- **Springs** – Stainless steel.

Dimensional Data

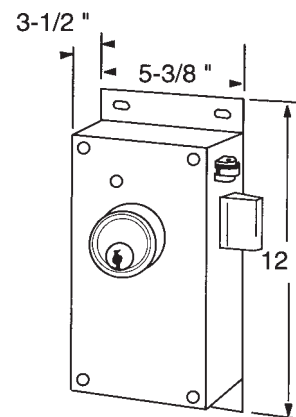
Note: Dimensions are for information and planning purposes only, and should not be used as templates.

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

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

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.



MODEL NO.	OPERATION DESCRIPTION	LATCHBACK	INDICATION SWITCHES	LEK AVAILABLE
			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



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