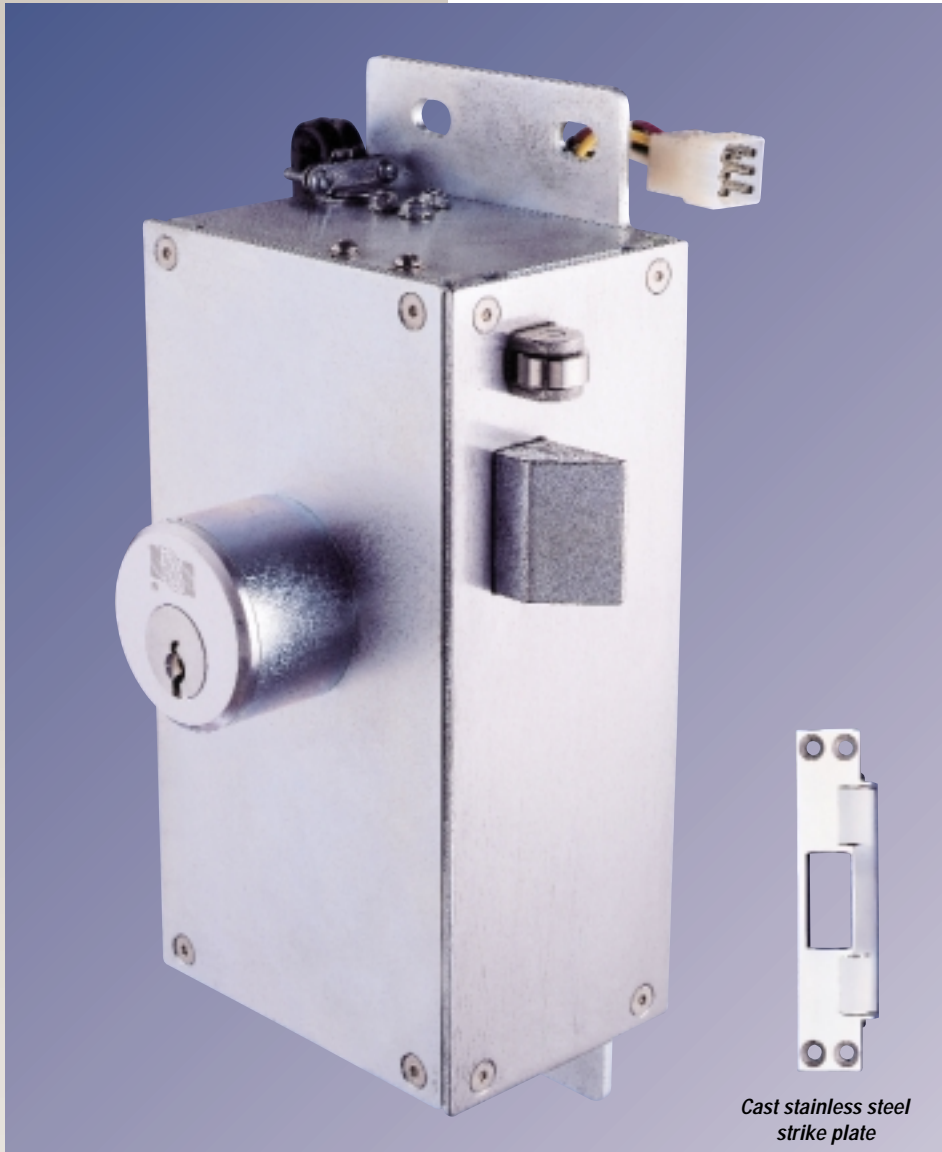


5020M

Electromechanical Automatic Deadlocking Latch High Security and Impact Resistant – 1" Throw

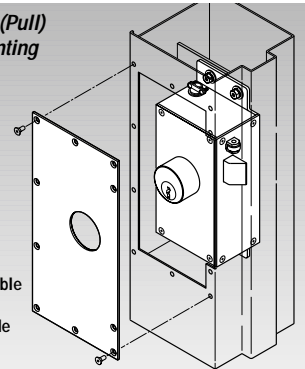
24 VDC or 120 VAC Motor Power and Manual Key Unlocking – Jamb Mounted



Cast stainless steel
strike plate

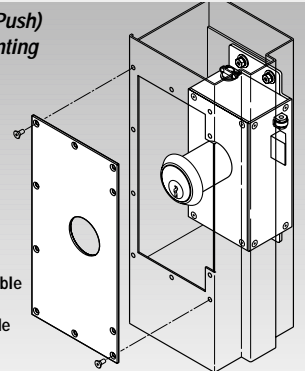
*Hinge-Side (Pull)
Frame Mounting*

Locate removable
cover plate on
non-secure side
of frame



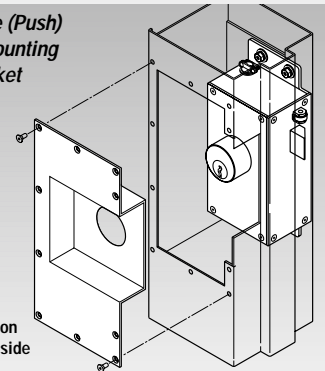
*Stop-Side (Push)
Frame Mounting
with KCE*

Locate removable
cover plate on
non-secure side
of frame



*Stop-Side (Push)
Frame Mounting
with Pocket*

Locate
removable
cover plate on
non-secure side
of frame



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Application

- The 5020M is widely used in medium and maximum security detention facilities for remotely controlled electric unlocking of inmate room and passage doors.
- This lock is ideal as a component in attack resistant security perimeters in sensitive areas of commercial, governmental, and industrial buildings.
- Electric unlocking is by either 24VDC or 120VAC motor. Latch retraction is quiet and capable of overcoming abnormal side loads (e.g. someone leaning or pulling on the door to prevent unlocking).
- Mechanical latch retraction by pin tumbler key cylinder—commercial or “Prison Mogul” types.
- The Model 5020M normally is jamb mounted in a steel door frame (14 gauge minimum) in a specially fabricated and reinforced lock pocket (or mortar box).
- The lock mechanism can be accessed without removal from the frame via an access plate on the non-secure side of the frame.
- Impact tested to Security Grade 1 per ASTM F1450 and F1577.
- When used in exterior locations, moisture proofing of the lock enclosure is essential and an internal resistance heating strip is recommended when the lock may be subjected to freezing conditions.

5020M Series

Electromechanical Automatic Deadlocking Latch – 1" Throw High Security / Impact Resistant

24 VDC or 120 VAC motor power and manual key unlocking via standard or Mogul key cylinder – jamb mounted

Standard Features

- Lock case and cover made of 10 gauge steel, electroplated for corrosion resistance
- Beveled latch made of saw-resistant hardened steel with a full 1" throw and 3/4" x 1-1/2" cross section.
- Cast stainless steel strike plate.
- Working parts are copper alloy or stainless steel.
- Maintained Switch Latch Holdback (**MSLH**) function (see "Lock Function Reference Guide")
- Lock status switch (**LSS**) trips when the latch is in a deadlocked condition. Used in a signal circuit to indicate lock status – unlocked or deadlocked – via control panel lights and/or alarm devices. The LSS is also used to control an electrical interlock, which permits only one of a group of doors to be unlocked electrically at any time. *Note: For positive, tamper resistant signaling of a closed and deadlocked door, a sensitive door position (DPS) switch must be wired in combination with the LSS. Our DPS Nos. 201030 or 201090 are recommended.*
- Fitted for mechanical operation via either RRBLs proprietary "Mogul" or user's commercial key cylinder. (Factory supplied commercial key cylinder optional.) For stop side only or both side frame keying, the frame manufacturer must provide stop (push) side cylinder access or optional "key cylinder extension" (**KCE**). Key cylinder(s) must be factory assembled in lock.
- Plug connectors are provided for ease in wiring and removal.
- Exposed fasteners – pinned "Torx" head
- Available cylinder finishes – Satin Brass (ANSI 606, US4) or Chrome (ANSI 626, US26D)

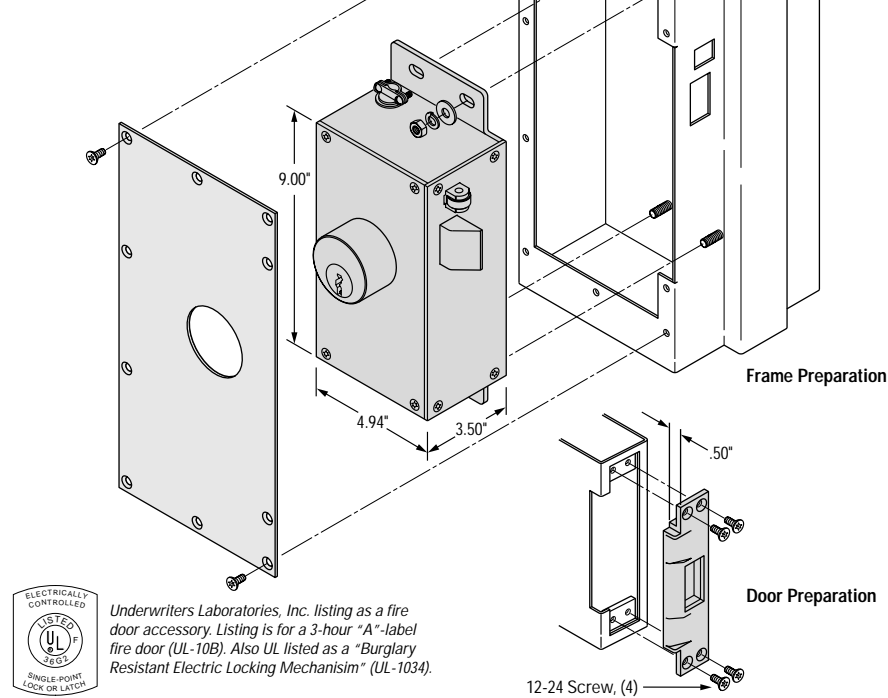
Electrical Data

- Motor – 24VDC, 1.0 amp or 120VAC, 3 amp
- Lock Status Switch – 125/250VAC, 5 amp, SPDT (Form C)

5022M Illustrated

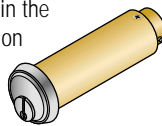
Typical hinge (pull) side mounting shown.

Note: This illustration is for information only. Do not use for construction. Door and frame preparation drawings and wiring schematics are available from the factory.



Optional Features

- **FKC** – Factory supplied high security commercial key cylinder with collar – two change keys/cylinder
- **MOG** – Supplied with RRBLs Mogul proprietary 2" diameter 6-pin cylinder – keys are ordered separately (UL listed locking cylinder UL-437).
- **KCE** – In lieu of a conventional stop (push) side key cylinder access opening in the frame, a key cylinder extension extends the working length of a commercial or Mogul key cylinder to adapt to outside jamb depths. This option applies to one side stop or both side keying only. Customer



supplied cylinders must be factory fitted to each KCE. (Jamb depth dimension required with order.)

- **CKS** – Factory key cylinder modification and an internal limit switch produce a key switch feature which electrically actuates the lock by one-way only rotation of the change level key. This feature can be rendered inoperative by switch from a remote control panel. Mechanical unlocking is by a master key. This feature is indicated when it is desirable to restrict periods when key unlocking is possible, e.g. building access or prison inmates who carry a key to their cell.

Ordering Information 5020M – Motor Power Series

| Model | Description |
|-------|-----------------------------|
| 5021M | 5020M keyed stop side only |
| 5022M | 5020M keyed hinge side only |
| 5026M | 5020M keyed both sides |

Consult with our technical service personnel regarding custom applications such as retrofits to existing lock installations and special mounting situations.



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Example: 5022 M – 24VDC – MSLH – FKC – LHR – Hinge-Side (PULL) – US26D

| Model & Keying | Voltage | Function | Optional Features | Hand of Lock | Removable Cover Plate Frame Side | Key Cylinder Finish |
|---------------------------|---------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------|-------------------------|
| 5021M Keyed stop side | 24VDC | See our "Lock Function Reference Guide" for a full description of available lock functions. | See the "Optional Features" section above for description and symbol. | See our "Hand of Locks Reference Guide" for description and symbol. | Hinge-Side (PULL) | US4 or US26D (standard) |
| 5022M Keyed hinge side | 120VAC | | | | Stop-Side (PUSH) | |
| 5026M Keyed both sides | | | | | | |