

5020M

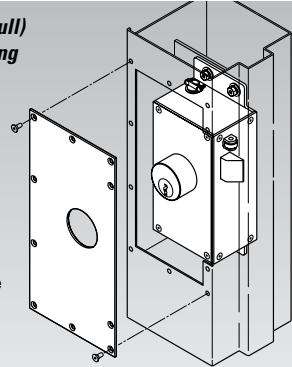
Electromechanical 1" Throw Automatic Deadlocking Latch – High Security and Impact Resistant

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



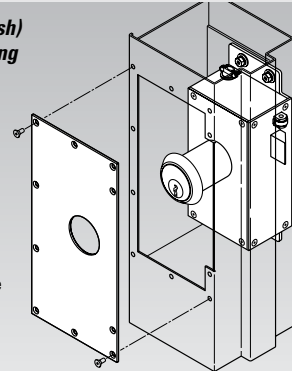
Hinge-Side (Pull) Frame Mounting

Locate removable
cover plate on
non-secure side
of frame



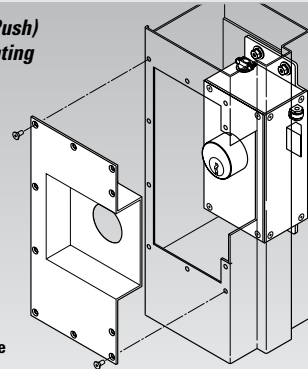
Stop-Side (Push) Frame Mounting with KCE

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 abnormally high 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 extreme freezing conditions.

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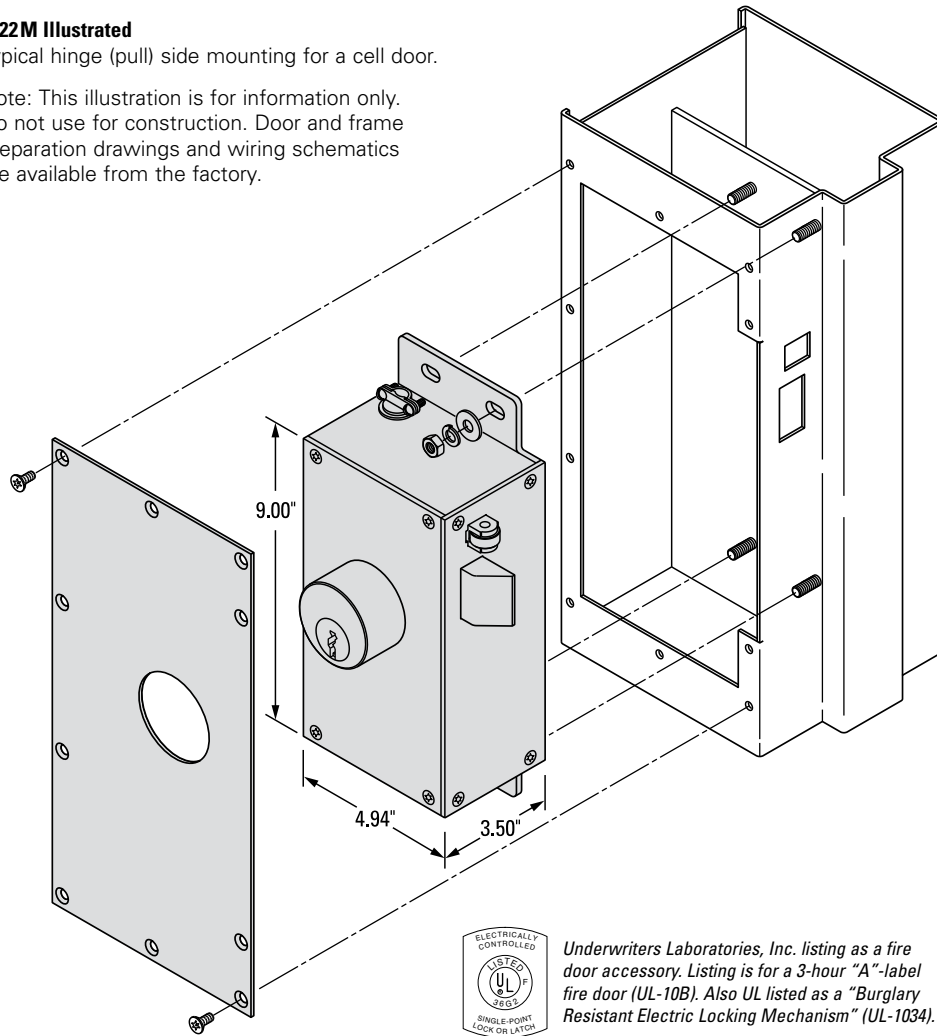
High Security / Impact Resistant

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

5022M Illustrated

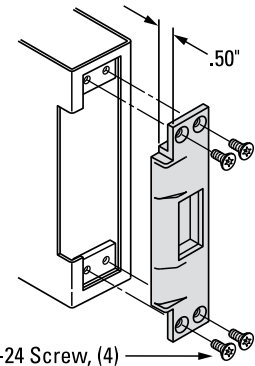
Typical hinge (pull) side mounting for a cell door.

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.



Underwriters Laboratories, Inc. listing as a fire door accessory. Listing is for a 3-hour "A"-label fire door (UL-10B). Also UL listed as a "Burglary Resistant Electric Locking Mechanism" (UL-1034).

Frame Preparation



12-24 Screw, (4)

Door Preparation

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.
- All internal parts are cast, fabricated or turned stainless steel.
- Maintained Switch Latch Holdback (MSLH) function (see "Function Guide for Motorized Locks")
- 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. 201023 or 201030 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.
- Available cylinder finish – Satin Chrome (ANSI 626, US26D)

- Plug connectors are provided for ease in wiring and removal.
- Exposed fasteners – pinned "Torx" head

Electrical Data

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

CERTIFICATIONS

- The Model 5020M complies with all test standards (Grade 1 where applicable) set forth in ASTM F1577 – "Standard Test Methods for Detention Locks for Swinging Doors." Copies of the independent third party testing laboratory certification reports are available on request.
- Fire Rated to 3 Hour per UL10B.

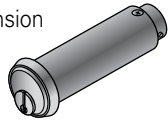
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Optional Features and Ordering

Optional Features

- **FKC** – Factory supplied high security commercial key cylinder with collar. Keys are ordered separately
- **MOG** – Supplied with RRBLS Mogul proprietary 2" diameter 6-pin cylinder. UL listed locking cylinder (UL-437). Keys are ordered separately.

- **KCE** – Key Cylinder Extension



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** – Controlled Key Switch

An internal limit switch enables electrical unlocking by one-way only rotation of a change level key (factory cylinder

modification required). The change key unlock circuit can be disabled at the lock control panel. Mechanical unlocking is by a master level key. This feature is used to select periods when change key unlocking is permitted, e.g. by prison inmates who carry a key to their cell.

- **MKUS** – Manual Key Unlock Switch

An internal limit switch is provided to signal the occurrence of manual key unlocking. Available with one or two side keying. A special RRBLS cam is provided to replace the original with customer supplied key cylinders. Can be used in combination with the **CKS** feature.

- **MLH** – Mechanical Latch Holdback

Key operation, counter to standard spring return latch rotation, enables maintained latch holdback (i.e. unlocked condition) with the key removed. **Relocking is by key only.** Optionally, keying for this feature can be unique since its rotation is opposite

that for standard unlocking. This allows restricted staff usage of this function.

- **MLHRR** – Mechanical Latch Holdback with Remote Release (Patent Pending)

This feature is an enhancement to the MLH option above to enable relocking of a door(s) by either a key **or electrically** from a control panel. This ability to override the MLH feature from a remote location is applicable in a detention facility when, in an emergency situation, it is necessary to institute a quick lockdown to obviate the time consuming need to relock doors locally by key.

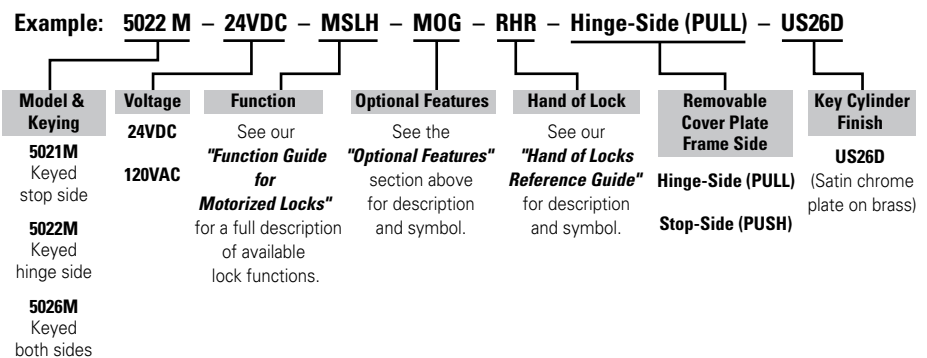
- **TMS** – Tamper Monitor Switch

A limit switch that signals (e.g. via light and/or audible alarm) manipulation of the lock's auxiliary bolt (a.k.a. roller bolt) when a door is ajar. The purpose is to alert correctional officers to suspicious activity at a door (e.g. lock abuse). (Not available with the MCLH-E function.)

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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