**Description**

Series 50HBM Deadlatches are lever tumbler, motor-operated locks for sliding doors, utilizing hookbolts. Specify keying as follows:

- **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.

**Testing**

50HBM locks have been tested for over 1,000,000 operations.

**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.
- **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.

For more information, please call 210.533.1231.
**Optional Features**

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

**Dimensional Data**

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

![Dimensions Diagram]

**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.

**Electrical Characteristics**

- **Motor (AC)** – Synchronous-type gearmotor with brake.
  Ratings: 120VAC, 60HZ, 1.3 amps at full load.
- **Motor (DC)** – Permanent magnet gearmotor.
  Ratings: 24VDC, 2.2 amps at full load.
- **Indication switch** – SPDT, UL Listed.
  Deadlock Ratings: 15 amps at 125 or 250 VAC.
  Auxiliary Ratings: 10 amps 125 or 250 VAC.

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>OPERATION DESCRIPTION</th>
<th>LATCHBACK</th>
<th>OPERATION SWITCHES</th>
<th>INDICATION SWITCH</th>
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<td>WITH</td>
<td>INTERLOCK</td>
<td>DEADLOCK</td>
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This chart shows applicability of functions and features to specific 50HBM models. For complete details, see How To Specify on the following page.

**50HB Series Locks**

**LOCK COVER PLATE TRACK SIDE**

- 50HBM Series Locks
- 56HB KEYED BOTH SIDES
- 52HB KEYED TRACK SIDE

**LEGEND**

- LH
- RH
- KEY
- LATCHBOLT DEADBOLT MOUNTING PLATE

Specify circled swing number when ordering.
HOW TO SPECIFY 50HBM SERIES LOCKS

1. Keying Location
   - 51HB: Case Side
   - 52HB: Cover Side
   - 56HB: Both Sides

2. Basic Models
   - M: Full-Rotation Motor
   - MC: Two-Position

3. Switch Functions
   - With Latchback
     - 01: Deadlock Indication
   - Without Latchback
     - 04: Deadlock Indication

4. Operating Voltages
   - 120 VAC
   - 24 VDC

5. Operation Series
   - 1: Standard

6. Lever Tumblers
   - 5: Five
   - 6: Six

7. Handing*
   - LH: Left Hand
   - RH: Right Hand

*For information on handing, see chart on previous page.

For more information, please call 210.533.1231.