Overview
ML2000 Series

Quality
The ML2000 Series is a Grade 1 mortise lock designed to meet the rigors of high-traffic commercial, institutional, industrial and government applications. Constructed of heavy-gauge steel, the lockbody features our patented Quick Reversible latchbolt, and a 1" stainless steel deadbolt. A wide variety of trim designs and functions and a 10-year warranty lend to the ML2000's versatility and reliability, making it the ideal choice for use in offices, schools, hospitals, hotels and other high-use applications.

Security
Further discourage intrusion and abuse with the ML2000VR (Vandal Resistant) series mortise lock. This lock features vandal-resistant stainless steel escutcheons with tapered edges and Torx® pin tamper resistant screws. When matched with Corbin Russwin patented high-security cylinders, any door can become a formidable barrier to intruders.

Flexible
The ML2000 Series has a multi-function capability, allowing 12 functions to be configured from one lockbody. The ML2054 entrance function (ANSI F04) uses a universal lockbody with the ability to reconfigure into other functions without disassembling the lock case.

Aesthetics
Complement any application with the full range of trim designs and finishes offered with ML2000 Series. From stainless steel security trims to bright brass Vineyard™ levers, design continuum can be achieved without forfeiting aesthetics. For additional information regarding designer trim, see the Corbin Russwin Vineyard™ Collection and Muséo® Collection catalogs.

Key Advantages
- Patented Quick Reversible feature enables reversal of hands without disassembling the lock case (Patent pending and/or patent www.assaabloydss.com/patents)
- Security trims provide a vandal-resistant barrier
- Can be used with new or existing Corbin Russwin key systems. Also accepts cylinders of most other manufacturers.
- Provides life safety and security in a single door prep, saving the additional cost of a deadlock
- Thru-bolted trim designs for proper alignment and increased security
- Multi-function lockbody
Features

**Features**

**Handing**
Handed; quick reversible. The lockset can be re-handed without disassembling the lock case; see page 81.

**Door Thickness**
1-3/4" (44mm) standard. Optional door thicknesses available; see Quick Codes, page 76.

**Backset**
2-3/4" (70mm).

**Lockcase**
Heavy-gauge steel, 5-7/8" (149mm) x 4" (102mm) x 15/16" (24mm). Optional: non-ferrous lockcase for corrosion resistance; see Quick Codes, page 76.

**Front**
Heavy-gauge steel, 8" (203mm) x 1-1/4" (32mm) x 3/32" (2mm). Accommodates flat doors and doors beveled 1/8" (3mm) in 2" (51mm). Furnished 1-1/16" (27mm), optional D138, wide for 1-3/8" (35mm) doors.

**Armored Front**
Wrought brass, bronze or stainless steel attached by machine screws to lockcase front. ML2000VR utilizes security Torx® screws.

**Latchbolt**
2-piece mechanical with anti-friction insert, 5/8" (16mm) x 1" (25mm) x 3/4" (19mm) throw.

**Auxiliary Latchbolt**
9/16" (14mm) effective throw and 3/8" (10mm) effective auxiliary latch deadlocking.

**Deadbolt**
One-piece stainless steel, 19/32" (15mm) x 1-1/4" (32mm) x 1" (25mm) throw.

**Occupancy Indicator**
Occupancy indicators for use with ML2000 x sectional trim. Design features option for dual indicators on double cylinder functions, confirming door is secured from either side. Emergency override standard for all non-keyed functions.

**Hub**
- Knob: stainless steel, 9/32" (7mm) x 9/32" (7mm).
- Lever: steel, 5/16" (8mm). (Including ³)

**Spacing**
C. to c. knob/lever to cylinder: 3-5/8" (92mm).
C. to c. knob/lever to thumbturn: 2-7/16" (62mm).

**Strike**
Wrought brass, bronze or stainless steel, ANSI straight lip standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center. Optional strikes, lip lengths and ANSI wrought strike box available; see Quick Codes, page 76.

**Cylinder**
Brass, 6-pin, L4 keyway, 0-bitted standard. Optional cylinders available; see Quick Codes, page 75.

**Keys**
Two nickel silver standard.

**Keying Features Available**
Master keying
Construction master keying
Visual key control
Concealed key control
Plug only to show (concealed shell)
7-pin cylinder
Security cylinder
Access 3® cylinder
Pyramid cylinder
Interchangeable core (IC)
Security IC
Pyramid IC
Access 3® IC
Master ring cylinder
Flex head cylinder

**Warranty**
Ten-year limited.

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**Certification/Compliance**

**ANSI/BHMA**
Certified A156.13 Series 1000, Operational and Security Grade 1. Meets A117.1 Accessibility Code.

**Federal**
Meets FF-H-106C.

**UL/cUL-UL10C Positive Pressure**
All locks listed for A label and lesser class doors, 4' (122cm) x 10' (305cm) single or 8' (244cm) x 10' (305cm) pair (3 hour fire door). Letter F and UL symbol on armored front indicate listing.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin, Inc. makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire-rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

**California State Reference Code**
(Formerly Title 19, California State Fire Marshal Standard)
All levers with returns, return to within 1/2" (13mm) of door face.

**Windstorm/Hurricane**
Certified (refer to local codes).

---

Indicates ML2000VR (Vandal Resistant) availability.
Features

ML2000 Series

**Finishes**

<table>
<thead>
<tr>
<th>ANSI/BHMA 605 (US3)</th>
<th>Bright Brass</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI/BHMA 606 (US4)</td>
<td>Satin Brass</td>
</tr>
<tr>
<td>ANSI/BHMA 611 (US9)</td>
<td>Bright Bronze</td>
</tr>
<tr>
<td>ANSI/BHMA 612 (US10)</td>
<td>Satin Bronze</td>
</tr>
<tr>
<td>ANSI/BHMA 613 (US10B)</td>
<td>Oxidized Bronze, oil rubbed</td>
</tr>
<tr>
<td>613E (US10BE)</td>
<td>Dark Oxidized Satin Bronze - Equivalent</td>
</tr>
<tr>
<td>613L</td>
<td>Dark Oxidized Satin Bronze, Clear Coated</td>
</tr>
<tr>
<td>ANSI/BHMA 618 (US14)</td>
<td>Bright Nickel Plated</td>
</tr>
<tr>
<td>ANSI/BHMA 619 (US15)</td>
<td>Satin Nickel Plated</td>
</tr>
<tr>
<td>ANSI/BHMA 625 (US26)</td>
<td>Bright Chromium Plated</td>
</tr>
<tr>
<td>ANSI/BHMA 626 (US26D)</td>
<td>Satin Chromium Plated</td>
</tr>
<tr>
<td>626C</td>
<td>Satin Chromium Plated with MicroShield®</td>
</tr>
<tr>
<td>ANSI/BHMA 629 (US32)</td>
<td>Bright Stainless Steel</td>
</tr>
<tr>
<td>ANSI/BHMA 630 (US32D)</td>
<td>Satin Stainless Steel</td>
</tr>
<tr>
<td>630C</td>
<td>Satin Stainless Steel with MicroShield®</td>
</tr>
<tr>
<td>722</td>
<td>Black Oxidized Bronze, oil rubbed</td>
</tr>
<tr>
<td>BSP</td>
<td>Black Suede Powder Coat</td>
</tr>
<tr>
<td>WSP</td>
<td>White Suede Powder Coat</td>
</tr>
</tbody>
</table>

Indicates ML2000VR (Vandal Resistant) availability.

Adjustable front accommodates square or beveled doors

1" deadbolt throw offers security and strength even with excessive door gaps

Highly engineered 3 spring design for smooth, crisp, and responsive operation

Heavy-duty, two-piece 3/4" anti-friction latchbolt throw requires less force to close door
<table>
<thead>
<tr>
<th>Outside</th>
<th>Inside</th>
<th>Series/Function</th>
<th>Type</th>
<th>ANSI No.</th>
<th>Function Description</th>
</tr>
</thead>
</table>
| A01     | A01    | ML2002         | Classroom Intruder | —       | • Latchbolt by grip either side, unless outside grip is locked by key either side.  
• Outside grip locked or unlocked by cylinder either side.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free. |
| A01     |        | ML2003         | Classroom | —       | • Lock or unlock outside grip by key.  
• Latchbolt by grip either side, unless outside grip is locked.  
• Inside grip always free.  
• Auxiliary latch deadlocks latch. |
|         |        | ML2010         | Passage or Closet | F01    | • Latchbolt by grip either side.  
• Both grips always free. |
| A01     |        | ML2011         | Deadlock     | F18    | • Deadbolt by key outside.  
• No inside operation. |
| A01     | A01    | ML2012         | Deadlock | F16    | • Deadbolt by key either side. |
| A01     |        | ML2013         | Deadlock | F17    | • Deadbolt by key outside or by thumbturn grip inside. |
| A01     |        | ML2017         | Classroom Deadlock | F29    | • Deadbolt by key outside.  
• Thumbturn grip inside retracts deadbolt only; will not project deadbolt. |
| A01     | A01    | ML2020         | Privacy Bedroom or Bathroom | F02    | • Latchbolt by grip* either side, when deadbolt is retracted.  
• Deadbolt by thumbturn grip inside or by emergency release tool outside.  
• No simultaneous deadbolt and latch retraction.  
• Non-panic release.  
• Not available with M195 or M19SN. |
| A01     | A01    | ML2022         | Store Door | F14    | • Latchbolt by grip* either side when deadbolt is retracted.  
• Deadbolt by key either side.  
• Latchbolt retracted by key either side.  
• Non-panic release.  
• No simultaneous deadbolt and latch retraction. |

* When lever handles are furnished, both outside and inside are locked when deadbolt is projected.

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**Overview**

**ML2000 Series**

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# Functions
## ML2000 Series

<table>
<thead>
<tr>
<th>Outside</th>
<th>Inside</th>
<th>Series/Function</th>
<th>Type</th>
<th>ANSI No.</th>
<th>Function Description</th>
</tr>
</thead>
</table>
| A01 | | ML2024 Entrance or Storeroom | F21 | • Latchbolt by grip* either side when deadbolt is retracted.  
• Deadbolt by key outside or by thumbturn grip inside.  
• Latchbolt retracted by key outside.  
• Non-panic release.  
• No simultaneous deadbolt and latch retraction. |
| A01 (Hotel Cylinder) | | ML2029 Hotel or Motel | F15 | • Latchbolt by grip inside and by guest key or master key outside.  
• Outside grip always rigid.  
• Deadbolt by thumbturn grip inside or by emergency key outside.  
• Inside grip simultaneously retracts latchbolt and deadbolt.  
• Emergency key shuts out all other keys.  
• Auxiliary latch deadlocks latchbolt.  
Note: Indicator shows deadbolt position only. |
| | | ML2030 Privacy Bedroom or Bathroom | F19 | • Latchbolt by grip either side unless outside grip locked by thumbturn.  
• Deadbolt by thumbturn grip inside or by emergency release tool outside.  
• Inside grip simultaneously retracts latchbolt and deadbolt and unlocks outside grip.  
• Not available with M195 or M195N. |
| A01 | A01 | ML2032 Institution or Utility | F30 | • Latchbolt by key either side.  
• Both grips always rigid.  
• Auxiliary latch deadlocks latchbolt.  
Note: This function does not allow free egress and can pose a life safety hazard in event of an emergency. Installation should be in accordance with approved codes only. |
| A01 | A02 | ML2042 Entrance or Public Restroom | F09 | • Latchbolt by grip either side, unless outside grip is locked by key from inside.  
• Latchbolt by key outside when outside grip is locked.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free. |
| A01 | A01 | ML2048 Entrance or Apartment | F08 F10 | • Latchbolt* by key outside or by grip either side, unless outside grip is locked by toggle-action stop.  
• Deadbolt by key outside or by thumbturn grip inside.  
• Inside grip free when deadbolt is retracted.  
• Non-panic release.  
• No simultaneous deadbolt and latch retraction.  
Note: Indicator shows deadbolt position only. |
| A01 | | ML2049 Storeroom Deadbolt | — | • Latchbolt and deadbolt by grip inside or by key outside.  
• Inside grip simultaneously retracts deadbolt and latchbolt.  
• Outside grip always rigid.  
• Deadbolt thrown or retracted by key outside or thumbturn grip inside.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free.  
Note: Indicator shows deadbolt position only. |
| | | ML2050 Half Dummy Trim | — | • Grip acts as pull only; no operation. |
| A01 | | ML2051 Entrance or Office | F04 | • Latchbolt by key when outside grip locked by toggle action stop.  
• Latchbolt by grip either side, unless outside grip is locked by toggle-action stop.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free. |

*When lever handles are furnished, both outside and inside are locked when deadbolt is projected.*

Indicates Indicator option is available
Indicates rigid grip.
Indicates function available in Anti-Harm Trim.
Indicates function available in Vandal Resistant Trim.
### Functions

#### ML2000 Series

<table>
<thead>
<tr>
<th>Outside</th>
<th>Inside</th>
<th>Series/Function</th>
<th>Type</th>
<th>ANSI No.</th>
<th>Function Description</th>
</tr>
</thead>
</table>
|        |        | ML2052 Classroom Intruder | F32  | • Latchbolt by grip either side, unless outside grip is locked by key either side.  
• Latchbolt by key when outside grip locked.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free.  
• Outside grip remains locked unless unlocked by key either side.  
Note: Not available with indicator, specify ML2002. |
|        |        | ML2053 Entrance or Office | —     | • Latchbolt by grip either side, unless outside grip is locked or unlocked by key or thumbturn.  
• Outside grip locked or unlocked by key or thumbturn.  
• Latchbolt by key when outside grip locked.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free. |
| A02    | A02    | ML2054 Entrance or Office | F04  | • Latchbolt by grip either side, unless outside grip is locked.  
• Outside grip locked or unlocked by thumbturn.  
• Latchbolt by key when outside grip locked.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free.  
• Multi-function capable, see page 10 for more info. |
| A01    |        | ML2055 Classroom | F05  | • Latchbolt by grip either side, unless outside grip is locked by key outside.  
• Latchbolt by key when outside grip locked.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free.  
• Outside grip remains locked unless unlocked by key.  
Note: Not available with indicator, specify ML2003. |
| A02    |        | ML2056 Classroom Holdback | F06  | • Latchbolt by grip either side, unless outside grip is locked or unlocked by key.  
• Latchbolt by key outside when outside grip is locked.  
• Latchbolt can be held in a retracted position by key, or released by key.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free.  
Note: Not approved for use on U.L. fire listed applications. |
| A01    |        | ML2057 Storeroom or Closet | F07  | • Latchbolt by grip inside or by key outside.  
• Outside grip always rigid.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free. |
| A02    |        | ML2058 Entrance or Office Holdback | —     | • Latchbolt by grip either side, unless outside grip is locked.  
• Outside grip locked or unlocked by key or thumbturn.  
• Latchbolt retracted by key outside when outside grip is locked.  
• Latchbolt can be held in a retracted position by key or thumbturn, or released by key or thumbturn.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free.  
Note: Not approved for use on U.L. fire listed applications. |
| A01    |        | ML2059 Security Storeroom or Closet | —     | • Latchbolt and deadbolt by grip inside or by key outside.  
• Inside grip simultaneously retracts deadbolt & latchbolt.  
• Outside grip always rigid.  
• Auxiliary latch deadlocks latchbolt.  
• Inside grip always free. |

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Indicates rigid grip.  
Indicates function available in Vandal Resistant Trim.  
Indicates function available in Anti-Harm Trim.
## Functions

### ML2000 Series

<table>
<thead>
<tr>
<th>Outside</th>
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<th>Type</th>
<th>ANSI No.</th>
<th>Function Description</th>
</tr>
</thead>
</table>
|         |        | ML2060 Privacy  | F22  |          | • Latchbolt by grip either side, except when outside grip is locked by thumbturn inside.  
• Operating inside grip, closing door or operating emergency key outside unlocks outside grip.  
• Inside grip always free.  
• Not available with M19S or M19SN. |
| A01     | A01    | ML2062 Intruder Deadbolt | F33 |          | • Latchbolt by grip either side, unless outside grip is locked by projection of deadbolt.  
• Deadbolt thrown or retracted by key from either side.  
• Inside grip simultaneously retracts latchbolt and deadbolt and unlocks outside grip.  
• Inside grip always free. |
| A01     |        | ML2065 Dormitory or Entrance | F13 |          | • Latchbolt by grip either side unless outside grip locked by projection of deadbolt.  
• Deadbolt thrown or retracted by key outside or by thumbturn grip inside.  
• Inside grip simultaneously retracts latchbolt and deadbolt and unlocks outside grip.  
• Inside grip always free. |
| A01     |        | ML2067 Apartment or Dormitory | F20 |          | • Latchbolt by grip either side, unless outside grip is locked by toggle-action stop or by projection of deadbolt.  
• Deadbolt thrown or retracted by key outside or by thumbturn grip inside.  
• Inside grip simultaneously retracts latchbolt and deadbolt; outside grip remains locked.  
• Auxiliary latch deadlocks latchbolt.  
• Outside grip unlocked by toggle-action stop. Note: Occupancy Indicator shows deadbolt position only. |
| A01     |        | ML2068 Privacy or Apartment | —   |          | • Latchbolt by grip either side, unless outside grip is locked.  
• Outside grip locked or unlocked by key or thumbturn.  
• Operating inside grip, closing the door or using key unlocks outside grip.  
• Inside grip always free.  
• Auxiliary latch deadlocks latch. |
| A02     |        | ML2069 Institutional Privacy | F26 |          | • Latchbolt by grip either side, except when outside is locked by thumbturn inside.  
• Operating inside grip or closing door unlocks outside grip.  
• Key outside retracts latch at all times, even if thumbturn is held in locked position.  
• Auxiliary latch deadlocks latchbolt. |
|         |        | ML2070 Full Dummy Trim | —   |          | • Grips act as pulls only; no operation. |
| A01     | A01    | ML2072 Classroom Intruder  | —   |          | • Latchbolt by grip from either side unless outside grip is locked by projection of deadbolt.  
• Deadbolt thrown or retracted by key from either side.  
• Inside grip simultaneously retracts latchbolt and deadbolt; outside grip remains locked.  
• Key either side unlocks outside grip; outside grip remains locked unless unlocked by key.  
• Auxiliary latch deadlocks latchbolt. Note: Indicator shows deadbolt position only.  
* When lever handles are furnished, both outside and inside are locked when deadbolt is projected. |

- Indicates Indicator option is available
- Indicates rigid grip

Experience a safer and more open world

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## Functions
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<tr>
<th>Outside</th>
<th>Inside</th>
<th>Series/Function</th>
<th>Type</th>
<th>ANSI No.</th>
<th>Function Description</th>
</tr>
</thead>
</table>
| ![Image](image1.png) | ![Image](image2.png) | ML2073 | Classroom Security | — | • Latchbolt by grip from either side unless outside grip is locked by projection of deadbolt.  
• Deadbolt thrown or retracted by key.  
• Inside grip simultaneously retracts latchbolt and deadbolt; outside grip remains locked.  
• Key unlocks outside grip; outside grip remains locked unless unlocked by key.  
• Auxiliary latch deadlocks latchbolt.  
Note: Indicator shows deadbolt position only. |
| ![Image](image3.png) | ![Image](image4.png) | ML2075 | Security Entrance or Office | — | • Latchbolt by grip from either side unless outside grip is locked by projection of deadbolt.  
• Deadbolt thrown or retracted by key or inside thumbturn.  
• Inside grip simultaneously retracts latchbolt and deadbolt; outside grip remains locked.  
• Key unlocks outside grip; outside grip remains locked unless unlocked by key.  
• Auxiliary latch deadlocks latchbolt.  
Note: Indicator shows deadbolt position only. |
| ![Image](image5.png) | ![Image](image6.png) | ML2080 | Half Active Dummy Trim | — | • Non-latching operation.  
• Grip always active; acts as push or pull only. |
| ![Image](image7.png) | ![Image](image8.png) | ML2082 | Dormitory or Exit | F11 | • Latchbolt by grip either side, unless outside grip is locked by toggle-action stop or by projection of deadbolt.  
• Deadbolt thrown by key from either side.  
• Deadbolt and latchbolt retracted by outside key when outside grip locked.  
• Outside grip unlocked by toggle-action stop.  
• Inside grip simultaneously retracts latchbolt and deadbolt; outside grip remains locked.  
Note: Indicator shows deadbolt position only. |
| ![Image](image9.png) | ![Image](image10.png) | ML2087 | Security Vestibule | — | • Latchbolt by grip outside, unless outside grip is locked by key outside.  
• Outside grip remains locked unless unlocked by key outside.  
• Latchbolt by key outside.  
• Inside grip always rigid.  
• Auxiliary latch deadlocks latchbolt.  
Notes:  
- Handing must be specified. This function can only be field handed for door swing i.e. LH to LHR or RH to RHR.  
- Not available with L, R or V escutcheon trim.  
- This function does not allow free egress when inside locked and can pose a life safety hazard in even of an emergency. Installation should be in accordance with approved codes only. |
| ![Image](image11.png) | ![Image](image12.png) | ML2090 | Full Active Dummy Trim | — | • Non-latching operation.  
• Both grips always active; acts as push or pulls only. |
| ![Image](image13.png) | ![Image](image14.png) | ML2092 | Security Institution or Utility | — | • Latchbolt by key either side.  
• Deadbolt thrown and retracted by key either side.  
• Auxiliary latch deadlocks latchbolt.  
• Inside and outside grips remain locked at all times.  
Note: This function does not allow free egress and can pose a life safety hazard in event of an emergency. Installation should be in accordance with approved codes only. |

* When lever handles are furnished, both outside and inside are locked when deadbolt is projected.
## Multi-Function Capability for ML2000 Series

Corbin Russwin ML2000 Series mortise locks provide multi-function capability, allowing 12 functions to be configured using one lockbody.

The current ML2054 entrance function (ANSI F04) uses a universal lockbody with the ability to reconfigure into 11 other functions without disassembling the lock case and using few additional parts. All new and existing ML2054 function mortise locks provide this flexibility.

By specifying the ML2054, stock ordering is easier and facility maintenance is simplified.

<table>
<thead>
<tr>
<th>ANSI #</th>
<th>Illustration</th>
<th>Function #</th>
<th>Type</th>
<th>Function Description</th>
<th>Instructions</th>
<th>Additional Part(s) Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>F04</td>
<td><img src="image1" alt="Illustration" /></td>
<td>ML2054</td>
<td>Entrance or Office</td>
<td>Latchbolt by grip either side, unless outside grip is locked by thumbturn. &lt;br&gt;Outside grip locked or unlocked by thumbturn. &lt;br&gt;Latchbolt by key when outside grip locked. &lt;br&gt;Auxiliary latch deadlocks latchbolt. &lt;br&gt;Inside grip always free.</td>
<td>- Install thumbturn on inside. &lt;br&gt;- Install cylinder with A01 cam on outside.</td>
<td>- No additional parts required</td>
</tr>
<tr>
<td>F01</td>
<td><img src="image2" alt="Illustration" /></td>
<td>ML2010*</td>
<td>Passage or Closet</td>
<td>Latchbolt by grip either side. &lt;br&gt;Both grips always free. &lt;br&gt;*Multi-Function lockbody comes with auxiliary latchbolt, does not affect the operation of the function</td>
<td>- Do not install thumbturn or cylinder. &lt;br&gt;- Do not install lock in unlocked condition.</td>
<td>- No additional parts required</td>
</tr>
<tr>
<td>F30</td>
<td><img src="image3" alt="Illustration" /></td>
<td>ML2032</td>
<td>Institution or Utility</td>
<td>Latchbolt by key either side. &lt;br&gt;Both grips always rigid. &lt;br&gt;Auxiliary latch deadlocks latchbolt.</td>
<td>- Do not install thumbturn on inside. &lt;br&gt;- Install cylinders with A01 cam on both inside and outside. &lt;br&gt;- Add second red locking screw. &lt;br&gt;- Install lock in locked condition.</td>
<td>- Red locking screw (part number 684F067) &lt;br&gt;- Mortise cylinder with A01 cam</td>
</tr>
<tr>
<td>F09</td>
<td><img src="image4" alt="Illustration" /></td>
<td>ML2042</td>
<td>Entrance or Public Restroom</td>
<td>Latchbolt by grip either side, unless outside grip is locked by key from inside. &lt;br&gt;Latchbolt by key outside when outside grip is locked. &lt;br&gt;Auxiliary latch deadlocks latchbolt. &lt;br&gt;Inside grip always free.</td>
<td>- Do not install thumbturn on inside. &lt;br&gt;- Install cylinders with A01 cam on outside and A02 cam on inside.</td>
<td>- Mortise cylinder with A02 cam</td>
</tr>
<tr>
<td>F32</td>
<td><img src="image5" alt="Illustration" /></td>
<td>ML2052</td>
<td>Classroom Intruder</td>
<td>Latchbolt by grip either side, unless outside grip is locked by key either side. &lt;br&gt;Latchbolt by key when outside grip is locked. &lt;br&gt;Auxiliary latch deadlocks latchbolt. &lt;br&gt;Inside grip always free. &lt;br&gt;Outside grip remains locked unless unlocked by key either side.</td>
<td>- Do not install thumbturn on inside. &lt;br&gt;- Change cam on cylinder to A02. &lt;br&gt;- Install cylinders with A02 cam on both inside and outside.</td>
<td>- A02 cam (part number 756F517) &lt;br&gt;- Mortise cylinder with A02 cam</td>
</tr>
<tr>
<td>—</td>
<td><img src="image6" alt="Illustration" /></td>
<td>ML2053</td>
<td>Entrance or Office</td>
<td>Latchbolt by grip either side, unless outside grip is unlocked by key or thumbturn. &lt;br&gt;Outside grip remains locked unless unlocked by key or thumbturn. &lt;br&gt;Latchbolt by key when outside grip locked. &lt;br&gt;Auxiliary latch deadlocks latchbolt. &lt;br&gt;Inside grip always free.</td>
<td>- Install thumbturn on inside. &lt;br&gt;- Change cam on cylinder to A02. &lt;br&gt;- Install cylinder on outside.</td>
<td>- A02 cam (part number 756F517)</td>
</tr>
</tbody>
</table>
# Multi-Function Configuration

## ML2000 Series

<table>
<thead>
<tr>
<th>ANSI #</th>
<th>Illustration</th>
<th>Function #</th>
<th>Type</th>
<th>Function Description</th>
<th>Instructions</th>
<th>Additional Part(s) Required</th>
</tr>
</thead>
</table>
| F05    | ![ML2055 Classroom](image) | ML2055     | Classroom | - Latchbolt by grip either side, unless outside grip is locked by key outside.  
- Latchbolt by key when outside grip locked.  
- Auxiliary latch deadlocks latchbolt.  
- Inside grip always free.  
- Outside grip remains locked unless unlocked by key. | - Do not install thumbturn on inside.  
- Change cam on cylinder to A02.  
- Install cylinder on outside. | A02 cam  
(part number 756F517) |
| F07    | ![ML2057 Storeroom or Closet](image) | ML2057     | Storeroom or Closet | - Latchbolt by grip inside or by key outside.  
- Outside grip always rigid.  
- Auxiliary latch deadlocks latchbolt.  
- Inside grip always free. | - Do not install thumbturn on inside.  
- Install cylinder with A01 cam on outside.  
- Install lock in locked condition. | No additional parts required |
|       | ![N/A Storeroom or Service](image) | N/A        | Storeroom or Service | - Latchbolt by grip inside or by key outside.  
- Auxiliary latch deadlocks latchbolt.  
- Inside grip always free. | - Do not install thumbturn on inside.  
- Install cylinder with A01 cam on outside.  
- Install 1/2 trim multi-function kit on outside. | - 1/2 trim multi-function kit  
(part number 853F958)* |
| F31    | ![N/A Exit Latch](image) | N/A        | Exit Latch | - Latchbolt by grip inside.  
- Auxiliary latch.  
- Inside grip always free. | - Do not install thumbturn on inside.  
- Do not install cylinders.  
- Install 1/2 trim multi-function kit on outside. | - 1/2 trim multi-function kit  
(part number 853F958)* |
|       | ![N/A Utility](image) | N/A        | Utility | - Latchbolt by key outside.  
- Outside grip always rigid.  
- Auxiliary latch deadlocks latchbolt.  
Note: This function does not allow free egress and can pose a life safety hazard in event of an emergency. Installation should be in accordance with approved codes only. | - Do not install thumbturn on inside.  
- Install cylinder with A01 cam on outside.  
- Install 1/2 trim multi-function kit on inside.  
- Install inside lever on outside. | - 1/2 trim multi-function kit  
(part number 853F958)* |
|       | ![N/A Closet](image) | N/A        | Closet | - Latchbolt by grip outside, unless grip is locked by key outside.  
- Latchbolt by key when outside grip locked.  
- Auxiliary latch deadlocks latchbolt.  
- Outside grip remains locked unless unlocked by key.  
Note: This function does not allow free egress and can pose a life safety hazard in event of an emergency. Installation should be in accordance with approved codes only. | - Do not install thumbturn on inside.  
- Install cylinder with A02 cam on the outside.  
- Install 1/2 trim multi-function kit on inside. | A02 cam  
(part number 756F517)  
- 1/2 trim multi-function kit  
(part number 853F958)* |

*1/2 trim multi-function kit includes: M30 adapter plate (p/n 488F278), 2 retainer rings (p/n 427F078), 2 spacers (p/n 426F918), and 2 screws (p/n 814F808).

The information detailed pertains to sectional trim for standard 1-3/4* thick doors. For escutcheon trim and other applications, please contact our Technical Product Support specialists for information and details.
Features

ML20900 ECL & ML20600NAC Series

Features

Handing
Handed; quick reversible. The lockset can be re-handed without disassembling the lockcase.

Door Thickness
1-3/4" (44mm) standard. Optional door thicknesses available; see Quick Codes, page 76.

Backset
2-3/4" (70mm).

Lockcase
Heavy-gauge steel, 5-7/8" (149mm) x 4" (102mm) x 15/16" (24mm).

Front
Heavy gauge steel, 8" (203mm) x 1-1/4" (32mm) x 3/32" (2mm).
Accommodates flat doors and doors beveled 1/8" (3mm) in 2" (51mm).

Armored Front
Wrought brass, bronze or stainless steel attached by machine screws to lockcase front.

Latchbolt
2-piece mechanical anti-friction insert, 5/8" (16mm) x 1" (25mm) x 3/4" (19mm) throw.

Auxiliary Latchbolt
9/16" (14mm) effective throw and 3/8" (10mm) effective auxiliary latch deadlocking.

Hub
• Knob: stainless steel, 9/32" (7mm) x 9/32" (7mm).
• Lever: steel, 5/16" (8mm). (Including)

Spacing
C. to c. knob/lever to cylinder: 3-5/8" (92mm).
C. to c. knob/lever to thumbturn: 2-7/16" (62mm).

Strike
Wrought brass, bronze or stainless steel ANSI straight lip standard, 4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center. Optional strikes, lip lengths and ANSI wrought strike box available; see Quick Codes, page 76.

Trim
Available with all ML2000 Series trim designs including the Vineyard™ Collection and the Muséo® Collection. See pages 20-62.

Cylinder
Brass, 6-pin, L4 keyway, 0-bitted standard. Optional cylinders available; see Quick Codes, page 75.

Keys
Two nickel silver standard.

Warranty
Ten-year limited warranty on ML2000 mortise lockset. Two-year limited warranty on electronic components.

Electrical Specifications
(Fail Safe/Fail Secure)
12/24VDC @ 15mA Continuous
12/24VDC Peak current draw = .5A
(Maximum of 2 locks per 1A Power Supply)
Monitor Switch Rating: 2 amp @ 24VDC
Note: Operating voltage not to exceed +/- 10%.
See Quick Codes, page 77.

Environmental Specifications
Operating Temperature
-13°F (-25°C) to 151°F (66°C)
Operating Humidity
5% to 95% relative humidity non-condensing

Monitor Options – ML2000 and ML20900 ECL Only
M91 - Latchbolt Monitor
Latchbolt monitoring is a SPDT switch which monitors the full extension of the main latch. Note: See page 77 for available functions.

M92 - Request to Exit Monitor
Request to Exit monitoring is a SPDT switch which monitors the activation of the trim. (Both levers activate switch) Note: See page 77 for available functions.

M105 - Security Monitor
Security Monitor is two switches in series that monitors lock status (locked or unlocked) and Auxiliary Latch position. Note: Monitoring options may only be ordered together as follows: M91xM92, M92xM105. See page 77 for available functions.

Monitor Options – ML20600 NAC only
Internal End-of-Line Monitoring
Monitors the line from the access control panel to the lock, eliminating the risk of undetected tampering or damage.

PHR – Deadbolt Privacy Function
Engaging deadbolt disables remote access control unlocking (keypad or card reader) or scheduled unlock.

Certification/Compliance
ANSI/BHMA
Certified A156.13 Series 1000, operational and security Grade 1. Meets A117.1 Accessibility Code.

Federal
Meets FF-H-106C.

UL/cUL
All locks listed for A label and lesser class doors, 4’ x 10’ single or 8’ x 10’ pair. Letter F and UL symbol on armored front indicate listing. Meets requirements of UL1034.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin, Inc. makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire-rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

California State Reference Code
(Formerly Title 19, California State Fire Marshal Standard)
All levers with returns comply; levers return to within 1/2* of door face.
ML20900 ECL Series
Electrified Mortise Lockset

Simplicity
Combine simplicity and access control with the Corbin Russwin ML20900 ECL series electrically controlled mortise lock. Utilizing the proven ML2000 Series mortise lockset with the patented quick reversible latchbolt, the ML20900 series provides remote locking and unlocking. The electrified lock can be installed in a standard mortise prep with slight modification by door manufacturer. The ML20900 ECL is ideal for use where increased security is necessary at all times, such as tenant space, pharmacies, computer rooms, and high security areas.

Security
In applications where increased security is required, look no further than the ML2000VR Vandal Resistant Trim. This cast stainless steel trim features tapered edges, double through bolts, torx-pin tamper resistant screws and the lever remains attached to the escutcheon when the spindle is broken.

Aesthetics
Access control doesn’t mean a loss of visual appeal. The Vineyard™ Collection and the Muséo® Collection feature beautifully designed levers, perfect for high-profile applications where pleasing aesthetics is a must.

Additional Features
- Mechanical key override
- Patented Quick Reversible latchbolt (Patent pending and/or patent www.assaabloydss.com/patents.)

Typical Application

Featuring EcoFlex® Technology:
- Reduces energy consumption up to 96%, as certified by GreenCircle
  - Lower operating costs
  - Assists with load reduction in optimizing energy performance credit in LEED
  - Reduces number of power supplies required
- Field configurable to fail-safe or fail-secure
- Operates from 12-24VDC, offering greater flexibility in system design
- Innovative actuator design provides superior reliability
  - Higher performance and reduced maintenance
  - Ability to have longer cable runs without negatively impacting lock function
  - Reduces risk of voltage drops and eliminates inductive kickback
  - Lower total cost of ownership

Note: EcoFlex Technology is not available with master ring cylinders. Solenoid provided.
**Operation:**
Free egress at all times. Door is locked at all times preventing entry from the stairwell to a floor. Fire alarm activation will allow re-entry from the stairwell to the floor. Power failure will allow re-entry from the stairwell to the floor.

**Controlled Entry With Alarm**

**Operation:**
Free egress at all times. Door is locked at all times preventing unauthorized entry. Authorized entry is permitted by presenting a valid user card.

**Lock Schematics**

**Power Leads**
- **Red +**
- **Black -**
- **AC/DC**

**Power Leads x M92** (Request to Exit)
- **Red +**
- **Black -**
- **AC/DC**
- **White**
- **Green**
- **Orange**

**Power Leads x M91** (Latchbolt Monitor)
- **Red +**
- **Black -**
- **Blue**
- **Brown**
- **NC**
- **Yellow**

**Power Leads x M105** (Security Monitor)
- **Red +**
- **Black -**
- **Blue**
- **Brown**
- **NC**
- **Yellow**

Consult factory for electrical system layouts, riser and wiring diagrams.
# Fail Safe

The following functions are unlocked when power is off and locked when the power is on.

<table>
<thead>
<tr>
<th>Outside</th>
<th>Inside</th>
<th>Series/Function</th>
<th>Description</th>
</tr>
</thead>
</table>
| ![A01](image1.png) | ![A01](image2.png) | ML20906 x SAF | - Latchbolt by grip either side, unless outside grip is locked by energizing lock.  
- Latchbolt by key outside when lock is energized.  
- Inside grip always free.  
- Auxiliary latch deadlocks latchbolt. |
| ![A01](image3.png) | ![A01](image2.png) | ML20907 x SAF | - Latchbolt by grip either side, unless outside grip is locked by energizing lock.  
- Inside grip always free.  
- Auxiliary latch deadlocks latchbolt. |
| ![A01](image1.png) | ![A01](image4.png) | ML20914 x SAF | - Latchbolt by grip either side, unless both grips are locked by energizing lock.  
- Latchbolt by key outside when lock is energized.  
- Auxiliary latch deadlocks latchbolt. |
| ![A01](image5.png) | ![A01](image4.png) | ML20915 x SAF | - Latchbolt by grip either side, unless both grips are locked by energizing lock.  
- Auxiliary latch deadlocks latchbolt. |
| ![A01](image1.png) | ![A01](image4.png) | ML20932 x SAF | - Latchbolt by grip outside, unless outside grip is locked by energizing lock.  
- Latchbolt by key both sides.  
- Inside grip always rigid.  
- Auxiliary latch deadlocks latchbolt.  
**Notes:**  
- This function does not allow free egress and can pose a life safety hazard in the event of an emergency. Installation should be in accordance with approved codes only.  
- Not available with L, R, or V escutcheon trim. |

VR Indicates function available in Vandal Resistant Trim.  
HSS Indicates function available in Anti-Harm Trim.  
Indicates rigid grip.
## Functions

### ML20900 ECL Series

#### Fail Secure

The following functions are locked when power is off and unlocked when the power is on.

<table>
<thead>
<tr>
<th>Outside</th>
<th>Inside</th>
<th>Series/Function</th>
<th>Description</th>
</tr>
</thead>
</table>
| A01     |        | ML20906 x SEC   | • Latchbolt by grip either side only when lock is energized.  
• Outside grip locked when lock is not energized.  
• Latchbolt by key outside when lock is not energized.  
• Inside grip always free.  
• Auxiliary latch deadlocks latchbolt. |
| A01     |        | ML20907 x SEC   | • Latchbolt by grip either side only when lock is energized.  
• Outside grip locked when lock is not energized.  
• Inside grip always free.  
• Auxiliary latch deadlocks latchbolt. |
| A01     |        | ML20914 x SEC   | • Latchbolt by grip either side only when lock is energized.  
• Both grips locked when lock is not energized.  
• Latchbolt by key outside when lock is not energized.  
• Auxiliary latch deadlocks latchbolt. |
| A01     |        | ML20915 x SEC   | • Latchbolt by grip either side only when lock is energized.  
• Both grips locked when lock is not energized.  
• Auxiliary latch deadlocks latchbolt. |
| A01     |        | ML20932 x SEC   | • Latchbolt by grip outside when lock is energized.  
• Outside grip locked when lock is not energized.  
• Latchbolt by key both sides.  
• Inside grip always rigid.  
• Auxiliary latch deadlocks latchbolt.  
**Notes:**  
- This function does not allow free egress and can pose a life safety hazard in the event of an emergency. Installation should be in accordance with approved codes only.  
- Not available with L, R, or V escutcheon trim. |

- Indicates function available in Vandal Resistant Trim.  
- Indicates function available in Anti-Harm Trim.  
- Indicates rigid grip.
ML20600 NAC Series Electrified Mortise Lock with High Security Monitoring

The high security monitoring options of our industry-leading Integrated Wiegand locks are now available in a mortise lock with ElectroLynx® connectors that can be used as a stand-alone electrified lock or in conjunction with a wall reader. Every NAC lock is shipped with door position and request to exit monitoring installed. NAC locks ordered with deadbolt are supplied with deadbolt monitoring. (PHR options will replace deadbolt monitoring with deadbolt privacy)

High Security Monitoring Options

- **Internal End-of-Line Monitoring**
  Integrated directly into the mortise lock, internal end-of-line resistors monitor the line from the access control panel to the lock. Typically, resistors are installed at the panel or above the door, creating vulnerability between the resistors and the locks. Incorporating resistors within the lock eliminates any risk of undetected tampering or damage, while also reducing installation costs, simplifying specifications, and offering the assurance of a factory installed and tested product.

  Select a compatible resistor configuration and add the appropriate quick code to the beginning of your order string:
  - R01: Mercury and Lenel compatible 1KΩ/2KΩ resistance supervision
  - R03: Software House compatible 1KΩ/2KΩ resistance supervision
  - R04: AMAG compatible 4-state supervision

- **Deadbolt Privacy Function (PHR)**
  - Engaging the deadbolt disables remote access control unlocking (keypad or card reader) or scheduled unlock.
  - Ideal for personal privacy areas, such as nursing rooms, on-call doctors’ rooms, restrooms, and shower areas
  - To order, add the PHR to the options of your order string available with SEC deadbolt functions only (ML20608 x SEC or ML20609 x SEC)

See how to order examples page 73.

Featuring EcoFlex® Technology:
- Reduces energy consumption up to 96% as certified by GreenCircle
  - Lower operating costs
  - Assists with load reduction in optimizing energy performance credit in LEED
  - Reduces number of power supplies required
- Field configurable to fail-safe or fail-secure
- Operates from 12-24VDC, offering greater flexibility in system design
- Innovative actuator design provides superior reliability
  - Higher performance and reduced maintenance
  - Ability to have longer cable runs without negatively impacting lock function
  - Reduces risk of voltage drops and eliminates inductive kickback
  - Lower total cost of ownership
## Functions

### ML20600 NAC Series

#### Fail Safe

<table>
<thead>
<tr>
<th>Outside</th>
<th>Inside</th>
<th>Series/Function</th>
<th>Type</th>
<th>Function Description</th>
</tr>
</thead>
</table>
| ![ML20606 x NAC x SAF](image1) | ![ML20606 x NAC x SAF](image2) | ML20606 x NAC x SAF Fail Safe With Key Override No Deadbolt | Entry | - Fail Safe - Power off unlocks outside trim  
- Deadlocking latch  
- Latch retracted by inside lever at all times  
- Outside lever rigid except when lock is not energized  
- Key outside retracts latch  
- Request to exit and secure door position monitor are standard |
| ![ML20607 x NAC x SAF](image3) | ![ML20607 x NAC x SAF](image4) | ML20607 x NAC x SAF Fail Safe No Key Override No Deadbolt | Entry | - Fail Safe - Power off unlocks outside trim  
- Deadlocking latch  
- Latch retracted by inside lever at all times  
- Outside lever rigid except when lock is not energized  
- Request to exit and secure door position monitor are standard |
| ![ML20608 x NAC x SAF](image5) | ![ML20608 x NAC x SAF](image6) | ML20608 x NAC x SAF Fail Safe With Key Override With Deadbolt | Entry With Deadbolt | - Fail Safe - Power off unlocks outside trim  
- Deadlocking latch  
- Latch retracted by inside lever and deadbolt at all times  
- Outside lever rigid except when lock is not energized  
- Key outside projects or retracts deadbolt and retracts latch  
- Turnpiece inside extends and retracts deadbolt  
- Request to exit and secure door position monitor are standard  
- Indicator shows deadbolt position only |
| ![ML20609 x NAC x SAF](image7) | ![ML20609 x NAC x SAF](image8) | ML20609 x NAC x SAF Fail Safe No Key Override With Deadbolt | Entry With Deadbolt | - Fail Safe - Power off unlocks outside trim  
- Deadlocking latch  
- Latch and deadbolt retracted by inside lever at all times  
- Outside lever rigid except when lock is not energized  
- Turnpiece inside extends and retracts deadbolt  
- Request to exit and secure door position monitor are standard  
- Indicator shows deadbolt position only |

- Indicates Indicator option is available
- Indicates function available in Vandal Resistant Trim.
- Indicates function available in Anti-Harm Trim.
## ML20600 NAC Series

### Fail Secure

<table>
<thead>
<tr>
<th>Outside</th>
<th>Inside</th>
<th>Series/Function</th>
<th>Type</th>
<th>Function Description</th>
</tr>
</thead>
</table>
| ![Diagram](A01) | ![Diagram](A01) | ML20606 x NAC x SEC Fail Secure With Key Override No Deadbolt | Entry | - Fail Secure - Power off, trim outside is locked  
- Deadlocking latch  
- Latch retracted by inside lever at all times  
- Outside lever rigid except when lock is energized  
- Key outside retracts latch  
- Request to exit and secure door position monitor are standard |
| ![Diagram](A01) | ![Diagram](A01) | ML20607 x NAC x SEC Fail Secure No Key Override No Deadbolt | Entry | - Fail Secure - Power off, trim outside is locked  
- Deadlocking latch  
- Latch retracted by inside lever at all times  
- Outside lever rigid except when lock is energized  
- Request to exit and secure door position monitor are standard |
| ![Diagram](A01) | ![Diagram](A01) | ML20608 x NAC x SEC Fail Secure With Key Override With Deadbolt | Entry | - Fail Secure - Power off, trim outside is locked  
- Deadlocking latch  
- Latch and deadbolt retracted by inside lever and deadbolt at all times  
- Outside lever rigid except when lock is energized  
- Key outside projects or retracts deadbolt and retracts latch  
- Turnpiece inside extends and retracts deadbolt  
- Request to exit and secure door position monitor are standard  
- Indicator shows deadbolt position only |
| ![Diagram](A01) | ![Diagram](A01) | ML20609 x NAC x SEC Fail Secure No Key Override With Deadbolt | Entry | - Fail Secure - Power off, trim outside is locked  
- Deadlocking latch  
- Latch and deadbolt retracted by inside lever at all times  
- Outside lever rigid except when lock is energized  
- Turnpiece inside extends and retracts deadbolt  
- Request to exit and secure door position monitor are standard  
- Indicator shows deadbolt position only |

- Indicates Indicator option is available  
- Indicates function available in Vandal Resistant Trim.  
- Indicates function available in Anti-Harm Trim.
Trim Designs

ML2000, ML20900 ECL and ML20600 NAC Series

Lustra
Complies with codes requiring lever to return to within 1/2” (13mm) of door face. Brass, bronze or stainless steel.

<table>
<thead>
<tr>
<th>Model</th>
<th>Lever</th>
<th>Rose</th>
</tr>
</thead>
<tbody>
<tr>
<td>LWA</td>
<td>Wrought</td>
<td>Wrought</td>
</tr>
<tr>
<td>LWB</td>
<td>Wrought</td>
<td>Cast</td>
</tr>
<tr>
<td>LSA</td>
<td>Cast</td>
<td>Wrought</td>
</tr>
<tr>
<td>LSB</td>
<td>Cast</td>
<td>Cast</td>
</tr>
<tr>
<td>LWF</td>
<td>Wrought</td>
<td>Cast</td>
</tr>
<tr>
<td>LSF</td>
<td>Cast</td>
<td>Cast</td>
</tr>
</tbody>
</table>

Dimensions:

<table>
<thead>
<tr>
<th></th>
<th>inches</th>
<th>millimeters</th>
</tr>
</thead>
<tbody>
<tr>
<td>LWA</td>
<td>2-1/4&quot;</td>
<td>57mm</td>
</tr>
<tr>
<td></td>
<td>2-1/2&quot;</td>
<td>64mm</td>
</tr>
<tr>
<td>LWB</td>
<td>2-7/8&quot;</td>
<td>73mm</td>
</tr>
<tr>
<td></td>
<td>5-1/8&quot;</td>
<td>130mm</td>
</tr>
<tr>
<td>LSA</td>
<td>2-1/2&quot;</td>
<td>64mm</td>
</tr>
<tr>
<td></td>
<td>5-1/8&quot;</td>
<td>130mm</td>
</tr>
</tbody>
</table>

*Dimension from face of door, not surface of rose or escutcheon.
Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

LWM
Lever: Wrought
Escutcheon: Wrought
Optional: Plug only to show; master ring

LSM
Lever: Cast
Escutcheon: Wrought
Optional: Plug only to show; master ring

LWN
Lever: Wrought
Escutcheon: Wrought

LSN
Lever: Cast
Escutcheon: Wrought

LWP
Lever: Wrought
Escutcheon: Wrought

LSP
Lever: Cast
Escutcheon: Wrought
Note: P escutcheon is not compatible with ML20900 ECL or ML20600 NAC mortise locks

LWR
Lever: Wrought
Escutcheon: Solid stainless steel; forged brass
Optional: Plug only to show
Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)

LSR
Lever: Cast
Escutcheon: Solid stainless steel, forged brass
Optional: Plug only to show
Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)
Note: R escutcheon is not available for functions ML2087 or ML20987

*Dimension from face of door, not surface of rose or escutcheon.
Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Regis
Brass, bronze or stainless steel

RWA
Lever: Wrought
Rose: Wrought

RWB
Lever: Wrought
Rose: Cast

RSA
Lever: Cast
Rose: Wrought

RSB
Lever: Cast
Rose: Cast

RWF
Lever: Wrought
Rose: Cast

RSF
Lever: Cast
Rose: Cast

*Dimension from face of door, not surface of rose or escutcheon.
Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

**RWM**
Lever: Wrought
Escutcheon: Wrought
Optional: Plug only to show; master ring

**RSM**
Lever: Cast
Escutcheon: Wrought
Optional: Plug only to show; master ring

**RWN**
Lever: Wrought
Escutcheon: Wrought

**RSN**
Lever: Cast
Escutcheon: Wrought

**RWP**
Lever: Wrought
Escutcheon: Wrought

**RSP**
Lever: Cast
Escutcheon: Wrought
Note: P escutcheon is not compatible with ML20900 ECL or ML20600 NAC mortise locks

**RWR**
Lever: Wrought
Escutcheon: Solid stainless steel; forged brass
Optional: Plug only to show
Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)

**RSR**
Lever: Cast
Escutcheon: Solid stainless steel; forged brass
Optional: Plug only to show
Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)
Note: R escutcheon is not available for functions ML2087 or ML20987

*Dimension from face of door, not surface of rose or escutcheon.*
Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Citation
- Brass, bronze or stainless steel
- Laser engraving option
  (See Custom Laser Engraving brochure)

CSA
Lever: Cast
Rose: Wrought

CSB
Lever: Cast
Rose: Cast

CSF
Lever: Cast
Rose: Cast

*Dimension from face of door, not surface of rose or escutcheon.

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Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

**CSM**
Lever: Cast
Escutcheon: Wrought
Optional:
- Plug only to show; master ring
- Laser engraving on lever or escutcheon

**CSN**
Lever: Cast
Escutcheon: Wrought
Optional: Laser engraving on lever

**CSP**
Lever: Cast
Escutcheon: Wrought
Optional: Laser engraving on lever
Note: P escutcheon is not compatible with ML20900 ECL or ML20600 NAC mortise locks

**CSR**
Lever: Cast
Escutcheon: Solid stainless steel; forged brass
Optional:
- Plug only to show
- Laser engraving on lever
Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)
Note: R escutcheon is not available for functions ML2087 or ML20987

*Dimension from face of door, not surface of rose or escutcheon.*
Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Newport
• Complies with codes requiring lever to return to within 1/2” (13mm) of door face.
• Brass, bronze or stainless steel
• Laser engraving option
(See Custom Laser Engraving brochure)

**NSA**
Lever: Cast
Rose: Wrought

**NSB**
Lever: Cast
Rose: Cast

**NSF**
Lever: Cast
Rose: Cast

*Dimension from face of door, not surface of rose or escutcheon.*
**NSM**
Lever: Cast
Escutcheon: Wrought
Optional:
- Plug only to show; master ring
- Laser engraving on lever or escutcheon

---

**NSN**
Lever: Cast
Escutcheon: Wrought
Optional: Laser engraving on lever

---

**NSP**
Lever: Cast
Escutcheon: Wrought
Optional: Laser engraving on lever
Note: P escutcheon is not compatible with ML20900 ECL or ML20600 NAC mortise locks

---

**NSR**
Lever: Cast
Escutcheon: Solid stainless steel; forged brass
Optional:
- Plug only to show
- Laser engraving on lever
Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)
Note: R escutcheon is not available for functions ML2087 or ML20987

---

*Dimension from face of door, not surface of rose or escutcheon.*
Overview
ML2000 Series

Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Armstrong
- Brass, bronze or stainless steel
- Laser engraving option
(See Custom Laser Engraving brochure)

ASA
Lever: Cast
Rose: Wrought

ASB
Lever: Cast
Rose: Cast

ASF
Lever: Cast
Rose: Cast

*Dimension from face of door, not surface of rose or escutcheon.
**Overview**

**ML2000 Series**

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**Trim Designs**

**ML2000, ML20900 ECL and ML20600 NAC Series**

---

**ASM**
Lever: Cast
Escutcheon: Wrought
Optional:
- Plug only to show; master ring
- Laser engraving on lever or escutcheon

---

**ASN**
Lever: Cast
Escutcheon: Wrought
Optional: Laser engraving on lever

---

**ASP**
Lever: Cast
Escutcheon: Wrought
Optional: Laser engraving on lever
Note: P escutcheon is not compatible with ML20900 ECL or ML20600 NAC mortise locks

---

**ASR**
Lever: Cast
Escutcheon: Solid stainless steel; forged brass
Optional:
- Plug only to show
- Laser engraving on lever
Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)
Note: R escutcheon is not available for functions ML2087 or ML20987

---

*Dimension from face of door, not surface of rose or escutcheon.
Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Dirke
Brass, bronze or stainless steel
• Not reversible
• Handed levers

DSA
Lever: Cast
Rose: Wrought
Specify hand

DSB
Lever: Cast
Rose: Cast
Specify hand

DSF
Lever: Cast
Rose: Cast
Specify hand

*Dimension from face of door, not surface of rose or escutcheon.
Trim Designs

ML2000, ML20900 ECL and ML20600 NAC Series

**DSM**
Lever: Cast
Escutcheon: Wrought
Optional: Plug only to show; master ring
Specify hand

**DSN**
Lever: Cast
Escutcheon: Wrought
Specify hand

**DSP**
Lever: Cast
Escutcheon: Wrought
Specify hand
Note: P escutcheon is not compatible with ML20900 ECL or ML20600 NAC mortise locks

**DSR**
Lever: Cast
Escutcheon: Solid stainless steel; forged brass
Optional: Plug only to show
Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)
Specify hand
Note: R escutcheon is not available for functions ML2087 or ML20987
Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Essex
Complies with codes requiring lever to return to within 1/2" (13mm) of door face.
Brass, bronze or stainless steel

<table>
<thead>
<tr>
<th>Trim Design</th>
<th>Lever</th>
<th>Rose</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESA</td>
<td>Cast</td>
<td>Wrought</td>
</tr>
<tr>
<td>ESB</td>
<td>Cast</td>
<td>Cast</td>
</tr>
<tr>
<td>ESF</td>
<td>Cast</td>
<td>Cast</td>
</tr>
</tbody>
</table>

*Dimension from face of door, not surface of rose or escutcheon.
**ESM**
Lever: Cast
Escutcheon: Wrought
Optional: Plug only to show; master ring

**ESN**
Lever: Cast
Escutcheon: Wrought

**ESP**
Lever: Cast
Escutcheon: Wrought
Note: P escutcheon is not compatible with ML20900 ECL or ML20600 NAC mortise locks

**ESR**
Lever: Cast
Escutcheon: Solid stainless steel; forged brass
Optional: Plug only to show
Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)
Note: R escutcheon is not available for functions ML2087 or ML20987

*Dimension from face of door, not surface of rose or escutcheon.*
Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Princeton
• Complies with codes requiring lever to return to within 1/2" (13mm) of door face.
• Brass, bronze or stainless steel
• Laser engraving option

(See Custom Laser Engraving brochure)

PSA
Lever: Cast
Rose: Wrought

PSB
Lever: Cast
Rose: Cast

PSF
Lever: Cast
Rose: Cast

*Dimension from face of door, not surface of rose or escutcheon.
Trim Designs

ML2000, ML20900 ECL and ML20600 NAC Series

**PSM**
- Lever: Cast
- Escutcheon: Wrought
- Optional:
  - Plug only to show; master ring
  - Laser engraving on lever or escutcheon

**PSN**
- Lever: Cast
- Escutcheon: Wrought
- Optional: Laser engraving on lever

**PSP**
- Lever: Cast
- Escutcheon: Solid stainless steel; forged brass
- Optional:
  - Plug only to show
  - Laser engraving on lever
- Note: P escutcheon is not compatible with ML20900 ECL or ML20600 NAC mortise locks

**PSR**
- Lever: Cast
- Escutcheon: Solid stainless steel; forged brass
- Optional:
  - Plug only to show
  - Laser engraving on lever
- Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)
- Note: R escutcheon is not available for functions ML2087 or ML20987

*Dimension from face of door, not surface of rose or escutcheon.
## Trim Designs

**ML2000, ML20900 ECL and ML20600 NAC Series**

### Global Zinc

| Model | Knob: Solid Cast | Rose: Cast
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GZF</strong></td>
<td>2-7/8 (73)</td>
<td>3-1/4 (83)</td>
</tr>
<tr>
<td><strong>GZH</strong></td>
<td>2-1/4 (57)</td>
<td>3-1/4 (83)</td>
</tr>
</tbody>
</table>

| Model | Knob: Solid Cast | Rose: Wrought
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GZA</strong></td>
<td>2-1/4 (57)</td>
<td>3-1/4 (83)</td>
</tr>
<tr>
<td><strong>GZB</strong></td>
<td>2-1/4 (57)</td>
<td>3-1/4 (83)</td>
</tr>
</tbody>
</table>

*Dimension from face of door, not surface of rose or escutcheon.*

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*Experience a safer world.*

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Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

**GZM¹**
Knob: Solid Cast
Escutcheon: Wrought

**GZN**
Knob: Solid Cast
Escutcheon: Wrought

**GZP**
Knob: Solid Cast
Escutcheon: Wrought

Note: P escutcheon is not compatible with ML20900 ECL or ML20600 NAC mortise locks

**GZR¹,²**
Knob: Solid Cast
Escutcheon: Solid stainless steel; forged brass

Note: R escutcheon is not available for functions ML2087 or ML20987

---

1. Optional: Plug only to show; master ring
2. Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)
3. Dimension from face of door, not surface of rose or escutcheon.

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Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Yankee
Zinc

YZA
Knob: Solid Cast
Rose: Wrought

YZB
Knob: Solid Cast
Rose: Cast

YZF
Knob: Solid Cast
Rose: Cast

YZH
Knob: Solid Cast
Rose: Wrought

YZM
Knob: Solid Cast
Escutcheon: Wrought
Optional: Plug only to show; master ring

*Dimension from face of door, not surface of rose or escutcheon.
**Trim Designs**

**ML2000, ML20900 ECL and ML20600 NAC Series**

---

**YZN**

Knob: Solid Cast  
Rose: Wrought

---

**YZP**

Knob: Solid Cast  
Escutcheon: Wrought

Note: P escutcheon is not compatible with ML20900 ECL or ML20600 NAC mortise locks

---

**YZR**

Knob: Solid Cast  
Escutcheon: Solid stainless steel or forged brass

Optional: Plug only to show  
Door thickness: 1-3/8" (35mm), 1-3/4" (44mm), 2-1/4" (57mm)

Note: R escutcheon is not available for functions ML2087 or ML20987

---

*Dimension from face of door, not surface of rose or escutcheon.*
Muséo® Trim
ML2000, ML20900 ECL and ML20600 NAC Series

Muséo Collection Roses\(^1\) and Escutcheons

### V Rose
- Wrought
- 2-3/4" (69.85mm)

### U Rose
- Wrought
- 2-3/4" (69.85mm)

### T Rose
- Wrought
- 2-3/4" (69.85mm)

### Y Rose
- Wrought
- 2-3/16" (55.56mm)

### W Rose
- Wrought
- 2-1/8" (53.98mm)

### X Rose
- Wrought
- 2-11/16" (68.26mm)

### E2 Rose\(^2\)
- Wrought
- 2-5/16" (58.97mm)

### E3 Rose\(^2\)
- Wrought
- 2-1/16" (52.39mm)

### E4 Rose\(^2\)
- Wrought
- 2-1/16" (52.39mm)

### L Escutcheon
- Cast Brass
- 3-1/4" (82.55mm)

### R Escutcheon
- Solid Stainless Steel or Forged Brass
- 1-3/4" (44.45mm)

### E2 Rose\(^2\)
- Wrought
- 2-1/16" (52.39mm)

### E3 Rose\(^2\)
- Wrought
- 2-1/16" (52.39mm)

### E4 Rose\(^2\)
- Wrought
- 3-1/4" (82.55mm)

### MT1
- 1-1/2" dia (38.1mm)

### MT2
- 1-1/2" dia (38.1mm)

### MT3
- 1-1/2" dia (38.1mm)

### Inspire™ Roseless Trim
- Brass or Stainless Steel
- 3/4" (19mm)

### Notes:
1. Roses and Inspire trim are only available with Muséo levers.
2. Square cylinder collar and thumbturn backplate automatically supplied with E2, E3 and E4 roses.
3. Thumbturn back plate will match shape of rose chosen (i.e. round or square).
4. MT1, MT2 and MT3 are not available with M19VN occupancy indicator.
5. L & R escutcheons not available with functions ML2087 or ML20987

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Inspire™ Roseless Trim

Inspire roseless trim blends the lever and the door creating an artful approach to every opening. Offered with most Muséo® decorative levers, this exquisite trim will inspire the creation of beautiful openings.

Features:
- Certified to and exceeds ANSI/BHMA A156.13, Series 1000, Operational Grade 1 and Security Grade 1
- Attachment method similar to standard trim
- Available with all mortise lock functions
- Compatible with most Muséo Line levers (except 104, 111, 113, 121, Josef, Georges and Piet levers)
- Selected levers return within 1/2” of the door face
- All standard cylinder options are available
- Available for 1-3/4”, 2” and 2-1/4” thick doors only (contact factory for other door thicknesses)

How to Order
Inspire Roseless Trim

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Trim*</th>
<th>Finish</th>
<th>Hand</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>ML2055</td>
<td>102J</td>
<td>626</td>
<td>RHR</td>
</tr>
</tbody>
</table>

*Specify J for the rose when ordering Inspire roseless trim.
Muséo® Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Georgia
Timeless elegance in forms inspired by the natural world.

Laser Engraving offered on 102, 103, 124 and 125. See Custom Laser Engraving brochure for details.

102
Lever: Cast
Non-Handed lever

103
Lever: Cast
Non-Handed lever

1042
Lever: Cast
Non-Handed lever

1241
Lever: Cast
Non-Handed lever

1251
Lever: Cast
Non-Handed lever

1. Complies with codes requiring lever to return to within 1/2” (13mm) of door face.
2. Not available with Inspire™ roseless trim.
3. Contact factory for current lead times.
4. Not available in 32 or 32D finish

1042.4
Lever: Cast
Non-Handed lever

1241
Lever: Cast
Non-Handed lever

1251
Lever: Cast
Non-Handed lever

1. Complies with codes requiring lever to return to within 1/2” (13mm) of door face.
2. Not available with Inspire™ roseless trim.
3. Contact factory for current lead times.
4. Not available in 32 or 32D finish
Muséo® Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Pablo
Diminutive, yet distinctive and striking in style.

117²
Lever: Cast
Non-Handed lever

126¹,²
Lever: Cast
Handed - Specify hand
Non-Reversible

1. Complies with codes requiring lever to return to within 1/2” (13mm) of door face.
2. Not available in 32 or 32D finish
**Muséo® Trim Designs**

**ML2000, ML20900 ECL and ML20600 NAC Series**

---

**Jackson**

Intuitive shapes, moving with the energetic rhythm of modern life.

---

<table>
<thead>
<tr>
<th>Model</th>
<th>Lever Type</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1053.4</td>
<td>Cast</td>
<td>Non-handed lever</td>
</tr>
<tr>
<td>1194</td>
<td>Cast</td>
<td>Handed - Specify hand&lt;br&gt;Non-Reversible</td>
</tr>
<tr>
<td>1212.4</td>
<td>Cast</td>
<td>Handed - Specify hand&lt;br&gt;Non-Reversible</td>
</tr>
<tr>
<td>1271.4</td>
<td>Cast</td>
<td>Handed - Specify hand&lt;br&gt;Non-Reversible</td>
</tr>
</tbody>
</table>

1. Complies with codes requiring lever to return to within 1/2" (13mm) of door face.
2. Not available with Inspire™ roseless trim.
3. Contact factory for current lead times.
4. Not available in 32 or 32D finish.

---

**Experience a safer and more open world**

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CL3100.44

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**Overview**

ML2000 Series

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Salvador
Dreamlike beauty manifested in solid, familiar forms.

106
Lever: Cast
Non-handed lever

107
Lever: Cast
Non-handed lever

108
Lever: Cast
Non-handed lever

109
Lever: Cast
Non-Handed lever
Muséo® Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Salvador
Dreamlike beauty manifested in solid, familiar forms.

110
Lever: Cast
Non-handed lever

123\textsuperscript{i}
Lever: Cast
Non-handed lever

128\textsuperscript{i}
Lever: Cast
Non-handed lever

1. Complies with codes requiring lever to return to within 1/2" (13mm) of door face.
Muséo® Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Marc
Fluid lyricism expressed through whimsical lines and dynamic contours.

111\textsuperscript{1,2}
Levers: Cast
Handed - Specify hand
Non-Reversible

112\textsuperscript{2}
Levers: Cast
Handed - Specify hand
Non-Reversible

114\textsuperscript{2}
Levers: Cast
Handed - Specify hand
Non-Reversible

1. Not available with Inspire™ roseless trim.
2. Not available in 32 or 32D finish

1. Not available with Inspire™ roseless trim.
2. Not available in 32 or 32D finish
Muséo® Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Marc
Fluid lyricism expressed through whimsical lines and dynamic contours.

115²
Lever: Cast
Handed - Specify hand
Non-Reversible

116²
Lever: Cast
Handed - Specify hand
Non-Reversible

130¹,²
Lever: Cast
Handed - Specify hand
Non-Reversible

131¹,²
Lever: Cast
Handed - Specify hand
Non-Reversible

132¹,²
Lever: Cast
Handed - Specify hand
Non-Reversible

1. Complies with codes requiring lever to return to within 1/2" (13mm) of door face.
2. Not available in 32 or 32D finish
Muséo® Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Piet*
Striking levers with sleek, clean lines.

* Refer to page 76 for how to order the Muséo® Piet Lever Collection.
Not available with Inspire™ roseless trim.

21G
Grooved Insert
Lever: Cast
Non-Handed Lever

21L
Leather Insert
Lever: Cast
Non-Handed Lever

21M
Polished with Satin Insert
Lever: Cast
Non-Handed Lever

21S
Santoprene™ Insert
Lever: Cast
Non-Handed Lever
Muséo® Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Piet*
Striking levers with sleek, clean lines.

* Refer to page 76 for how to order the Muséo® Piet Lever Collection. Not available with Inspire™ roseless trim.

23M
With Raised Band
Lever: Cast
Non-Handed Lever

25M
Plain
Lever: Cast
Non-Handed Lever

27M
Plain with Two Grooves
Lever: Cast
Non-Handed Lever
Josef²/³
Tribute to the square with beautifully simple, but dramatic forms.

133
Lever: Cast
Non-Handed lever

134¹
Lever: Cast
Non-Handed lever

1. Complies with codes requiring lever to return to within 1/2" (13mm) of door face.
2. Not available with Inspire™ roseless trim.
3. 135-138 contain white or black polycarbonate insert
Muséo® Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Josef²/³
Tribute to the square with beautifully simple, but dramatic forms.

135
Lever: Cast
Non-Handed lever

136
Lever: Cast
Non-Handed lever

137¹
Lever: Cast
Non-Handed lever

138¹
Lever: Cast
Non-Handed lever

1. Complies with codes requiring lever to return to within 1/2" (13mm) of door face.
2. Not available with Inspire™ roseless trim.
3. 135-138 contain white or black polycarbonate insert.
Muséo® Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Georges²
Structural pieces that evoke an emotional response with sophisticated design.

139
Lever: Cast
Non-Handed lever

140
Lever: Cast
Handed lever

141
Lever: Cast
Non-Handed lever

2. Not available with Inspire™ roseless trim.
Muséo® Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Georges²
Structural pieces that evoke an emotional response with sophisticated design.

142
Lever: Cast
Non-Handed lever

143
Lever: Cast
Non-Handed lever

2. Not available with Inspire™ roseless trim.
Vineyard™ Collection Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Merlot
Like its namesake, the Merlot blends with — and enhances — any decor.

MSG
Lever: Cast
Rose: Cast

MSL
Lever: Cast
Escutcheon: Cast
Note: Escutcheon is not available for functions ML2087 or ML20987
Vineyard™ Collection Trim Designs
ML2000, ML20900 ECL and ML20600 NAC Series

Zinfandel
Vigorous and complex in design, the Zinfandel adds finesse to any opening.
• Handed Levers

ZSG
Lever: Cast
Rose: Cast
Specify hand.

ZSL
Lever: Cast
Escutcheon: Cast
Specify hand.
Note: Escutcheon is not available for functions ML2087 or ML20987
**Vineyard™ Collection Trim Designs**

**ML2000, ML20900 ECL and ML20600 NAC Series**

---

**Frascati**

Fresh yet classic, the Frascati exudes the casual, timeless elegance of the Roman hills.

- Non-Reversible
- Handed Levers

---

**FSG**

Lever: Cast
Rose: Cast

---

**FSL**

Lever: Cast
Escutcheon: Cast

Note: Escutcheon is not available for functions ML2087 or ML20987
Vandal Resistant Trim
ML2000 Series

ML2000VR Series Vandal-Resistant Mortise Trim

Applications
Designed for high-traffic commercial, industrial, institutional and government buildings that require a greater degree of security and vandal resistance not found on other mortise trims. Applications may include:

- Schools and universities
- Computer rooms
- Hospital pharmacies
- Banks
- Storage facilities
- Government installations
- Prisons and detention facilities
- Evidence rooms
- Weapons storage

Advantages
- Flush-mounted conventional fixed core cylinder
- Cast escutcheons and levers; double through-bolted
- Torx® pin tamper resistant security screws
- Armored front to protect against tampering
- Free-floating spindle self-adjusts for door thicknesses from 1-3/4" to 2-1/4"
- Levers remain attached if spindle is broken

Newport

NSV
Lever: Cast stainless steel
Escutcheon: Cast stainless steel
Door thickness: 1-3/4" (44mm) standard, 2" (51mm) specify D200, 2-1/4" (57mm) specify D214

Citation

CSV
Lever: Cast stainless steel
Escutcheon: Cast stainless steel
Door thickness: 1-3/4" (44mm) standard, 2" (51mm) specify D200, 2-1/4" (57mm) specify D214

Notes:
- This trim only available for ML2000VR and ML20900VR locksets.
- Only available in 630 (US32D) finish.
- Not available with all functions. See pages 5-9 and 15-16 for complete offering.
Behavioral Health Trim
ML2000 Series

BHSS*
Part of the Behavioral Health Series™ of products, the ML2000 Series mortise lock with BHSS trim provides an innovative solution for behavioral health environments. The unique integrated lever and escutcheon combines aesthetics with safety. Ease of operation, along with the strength and versatility of the ML2000 Series mortise lock allows its use in many applications.

Refer to the Specialty Hardware Catalog (45205) for more information.

BHSS
Stainless Steel
Finishes: 630, 630C

Thumbtum
Stainless Steel
Door thickness: 1-3/4" (44mm) through 2-1/4" (57mm)
(Not available with Occupancy Indicator)

How to Order

<table>
<thead>
<tr>
<th>BHSS</th>
<th>Series/Function</th>
<th>Trim</th>
<th>Finish</th>
<th>Hand</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>ML2010</td>
<td>BHSS</td>
<td>630</td>
<td>RHR</td>
</tr>
</tbody>
</table>

*Although these products are better designed for behavioral health applications than traditional trim, they do not eliminate the risk that an object can be affixed to, or around them.
Behavioral Health Lever Trim
ML2000 Series

BLSS*

The BLSS trim is part of the Behavioral Health Series™ of products. With an array of functions, this trim can be used on virtually any opening in healthcare applications. Sloping surfaces and overlapping rose and lever address safety concerns common in behavioral health. Optimal for tough environments, the ML2000 Series mortise lock provides impressive strength and reliability.

Refer to the Specialty Hardware Catalog (45205) for more information.

How to Order

<table>
<thead>
<tr>
<th>BLSS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Quantity</strong></td>
</tr>
<tr>
<td>100</td>
</tr>
</tbody>
</table>

*Although these products are a better design for behavioral health applications than traditional trim, they do not eliminate the risk that an object can be affixed to, or around them.
HPSK
The ML2000 Series mortise lock with push/pull paddle trim provides an aesthetically pleasing alternative to products with standard push/pull trim. Its heavy-duty design and ANSI/BHMA Grade1 strength help it to withstand abuse from rigorous environments. Multiple mounting orientations, hands free operation and a sleek, aesthetic form, make the ML2000 Series mortise lock ideal for use in healthcare facilities and educational facilities.

Refer to the Specialty Hardware Catalog (45205) for more information.

HPSK
Covers: Cast stainless steel
Paddles: Cast stainless steel
Specify hand.
Finishes: 630, 630C

Thumbtn
Stainless steel
Door thickness: 1-3/4" (44mm)
(Not available with Occupancy Indicator)

Laser Engraving
Stainless steel
Offered on all 3 paddle orientations
2-1/2" w x 2-1/2" h max laser engraving area
(See Custom Laser Engraving brochure for more details)

How to Order
HPSK Push/Pull*

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Trim</th>
<th>Finish</th>
<th>Hand</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>ML2010</td>
<td>HPSK</td>
<td>630</td>
<td>RHR</td>
</tr>
</tbody>
</table>

*Available on 1-3/4" door thickness only
Anti-Harm Knob HSS*

The anti-harm knob is designed for safety and security by eliminating catch points with a tapered knob recessed into the rose, a tapered thumbturn (for mortise lock thumbturn functions) with Torx® pin security screws, tapered cylinder collars and concealed mounting screws. Available as sectional trim, the anti-harm knob features recessed finger holes for a better grip and the reliability of the ML2000 Series ANSI/BHMA grade 1 mortise lock. Ideal for psychiatric or detention facilities.

Refer to the Specialty Hardware Catalog (45205) for more information.

Anti-Harm Knob
HSS
Brass

Knob: Brass
Door thickness: 1-3/4" (44mm) through 4" (102mm) in 1/4" increments.
Finishes: 630, 630C

Notes: On lever trim x HSS Knob, the outside lever will be retained with a set screw. HSS Knob is only available with the rose shown. No optional roses or escutcheons. Knob and rose are nickel plated to match stainless steel.

Thumbturn
Standard for all ML2000 x HSS thumbturn functions

(Not available with Occupancy Indicator)

How to Order

Anti-Harm Knob (HSS) Trim – HSS Knob x HSS Knob

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Trim</th>
<th>Finish</th>
<th>Hand</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>ML2032</td>
<td>HSS</td>
<td>630^</td>
<td>RH</td>
</tr>
</tbody>
</table>

Anti-Harm Knob (HSS) Trim – Lever Trim x HSS Knob

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Trim (Outside)</th>
<th>Trim (Inside)</th>
<th>Finish</th>
<th>Hand</th>
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<tbody>
<tr>
<td>6</td>
<td>ML2055</td>
<td>NSA</td>
<td>HSS</td>
<td>630C^</td>
<td>RH</td>
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</tbody>
</table>

*Although these products are a better design for behavioral health applications than traditional trim, they do not eliminate the risk that an object can be affixed to, or around them.

^619 finish provided to match 630 finish
Options & Accessories
ML2000 Series

Standard Thumbturn
Cast brass or bronze. Standard on functions utilizing thumbturn. sectional trim.

**Turn Size:** 1-1/4” (32mm)
**Spindle Size:** 3/16” (5mm)
**Plate Size:** 1-3/8” (35mm)

Surface screw mounted To order separately, see table.
- Available with Standard, Muséo and Vineyard levers
- Rose design will designate shape of thumbturn backplate
  - E2, E3 and E4 roses - square backplate

<table>
<thead>
<tr>
<th>Door</th>
<th>Packet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round</td>
<td>Square</td>
</tr>
<tr>
<td>1-3/8” (35mm)</td>
<td>519F09 x FIN</td>
</tr>
<tr>
<td>1-3/4” (44mm)</td>
<td>519F10 x FIN</td>
</tr>
<tr>
<td>2-1/4” (57mm)</td>
<td>519F11 x FIN</td>
</tr>
<tr>
<td>Up to 4” (102mm)</td>
<td>581F96 x FIN</td>
</tr>
</tbody>
</table>

Decorative Thumbturn MT1*
Cast bronze or stainless steel. Used on functions utilizing a thumbturn. Sectional trim only.
To order with lock and trim, specify Quick Code MT1.

**Turn Size:** 1-3/10” (33mm)
**Plate Size:** 1-1/2” (38.1mm)
- Available with Standard, Muséo and Vineyard levers
- Rose design will designate shape of thumbturn backplate
  - Round roses - round backplate
  - E2, E3 and E4 roses - square backplate

<table>
<thead>
<tr>
<th>Door</th>
<th>Packet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round</td>
<td>Square</td>
</tr>
<tr>
<td>1-3/8” (35mm)</td>
<td>723F70M x FIN</td>
</tr>
<tr>
<td>1-3/4” (44mm)</td>
<td>723F76M x FIN</td>
</tr>
<tr>
<td>2-1/4” (57mm)</td>
<td>723F88M x FIN</td>
</tr>
<tr>
<td>Up to 4” (102mm)</td>
<td>723F82M x FIN</td>
</tr>
</tbody>
</table>

Decorative Square Thumbturn MT2*
Cast bronze or stainless steel. Used on functions utilizing a thumbturn. Sectional trim only.
To order with lock and trim, specify Quick Code MT2.

**Turn Size:** 1-3/10” (33mm)
**Plate Size:** 1-1/2” (38.1mm)
- Available with Standard, Muséo and Vineyard levers
- Rose design will designate shape of thumbturn backplate
  - Round roses - round backplate
  - E2, E3 and E4 roses - square backplate

<table>
<thead>
<tr>
<th>Door</th>
<th>Packet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round</td>
<td>Square</td>
</tr>
<tr>
<td>1-3/8” (35mm)</td>
<td>723F72M x FIN</td>
</tr>
<tr>
<td>1-3/4” (44mm)</td>
<td>723F78M x FIN</td>
</tr>
<tr>
<td>2-1/4” (57mm)</td>
<td>723F90M x FIN</td>
</tr>
<tr>
<td>Up to 4” (102mm)</td>
<td>723F84M x FIN</td>
</tr>
</tbody>
</table>

*Not available with M19VN occupancy indicator.
## Options & Accessories

### ML2000 Series

#### Decorative Cylinder Thumbturn MT3*

- Cast bronze or stainless steel. Used on functions utilizing a thumbturn. Sectional trim only.
- To order with lock and trim, specify Quick Code MT3.
- To order separately, see table.

**Turn Size:** 1-3/10" (33mm)

**Plate Size:** 1-1/2" (38.1mm)

- Available with Standard, Museo and Vineyard levers
- Rose design will designate shape of thumbturn backplate
  - Round roses - round backplate
  - E2, E3 and E4 roses - square backplate

#### Thumbturn for BHSS, BLSS, HSS, HPSK

- Stainless steel. Used on functions utilizing a thumbturn. Sectional trim only. To order, see table.

**Plate Size:** 3-3/4" (95mm) x 2-1/2" (64mm)

#### Emergency Turn for BHSS, BLSS, HSS, HPSK

- Stainless steel. Used on functions utilizing a thumbturn. Sectional trim only. To order, see table.

**Plate Size:** 3-3/4" (95mm) x 2-1/2" (64mm)

#### Ergonomic Thumbturn

- Cast brass or bronze. Large profile and offset center makes it easier to grasp and rotate. Available on both sectional and escutcheon trim. To order with lock and trim, specify Quick Code M34. To order separately, see table.

**Note:** Not available with the M19N, M19SN, or M19VN indicators. Not available with HPSK trim.

---

### Options & Accessories Table

<table>
<thead>
<tr>
<th>Decorative Cylinder Thumbturn MT3*</th>
<th>Plate Size: 1-1/2&quot; (38.1mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Turn Size:</strong> 1-3/10&quot; (33mm)</td>
<td></td>
</tr>
<tr>
<td><strong>Plate Size:</strong> 1-1/2&quot; (38.1mm)</td>
<td></td>
</tr>
<tr>
<td>Available with Standard, Museo and Vineyard levers</td>
<td></td>
</tr>
<tr>
<td>Rose design will designate shape of thumbturn backplate</td>
<td></td>
</tr>
<tr>
<td>Round roses - round backplate</td>
<td></td>
</tr>
<tr>
<td>E2, E3 and E4 roses - square backplate</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thumbturn for BHSS, BLSS, HSS, HPSK</th>
<th>Plate Size: 3-3/4&quot; (95mm) x 2-1/2&quot; (64mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Turn Size:</strong> 1-3/4&quot; (44mm)</td>
<td></td>
</tr>
<tr>
<td><strong>Plate Size:</strong> 3-3/4&quot; (95mm) x 2-1/2&quot; (64mm)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emergency Turn for BHSS, BLSS, HSS, HPSK</th>
<th>Plate Size: 3-3/4&quot; (95mm) x 2-1/2&quot; (64mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Turn Size:</strong> 1-3/4&quot; (44mm)</td>
<td></td>
</tr>
<tr>
<td><strong>Plate Size:</strong> 3-3/4&quot; (95mm) x 2-1/2&quot; (64mm)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ergonomic Thumbturn</th>
<th>Plate Size: 3-3/4&quot; (95mm) x 2-1/2&quot; (64mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Turn Size:</strong> 1-3/4&quot; (44mm)</td>
<td></td>
</tr>
<tr>
<td><strong>Plate Size:</strong> 3-3/4&quot; (95mm) x 2-1/2&quot; (64mm)</td>
<td></td>
</tr>
</tbody>
</table>

*Not available with M19VN occupancy indicator.*
Options & Accessories
ML2000 Series

Blank Plate
For use on doors where standard thumbturn is no longer used. To order, specify 696F39 x Finish.

Key Plate
Cast brass or bronze. Standard for privacy function with emergency release only. Sectional Trim.
Plate Size: 1-3/8" (35mm) diameter. To order separately, specify Packet 438F90 x Finish.

Hotel Occupancy Indicators
For use with ML2029 hotel locks. Furnished only when ordered. When door is locked from inside, push button cannot be depressed, indicating that the room is occupied. To order specify quick code M19.
For use with sectional trim designs having 2-7/8" (73mm) maximum rose diameter. Cylinder collar and indicator combined.
Size: 3-1/16" (78mm) x 1-3/4" (44mm). To order separately, see table. For use with escutcheon designs only. Indicator is fastened to escutcheon at factory. It is included for illustration purposes only and is not sold separately.

<table>
<thead>
<tr>
<th>Collar and Indicator Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door</td>
</tr>
<tr>
<td>1-3/8&quot; (35mm)</td>
</tr>
<tr>
<td>1-3/4&quot; (44mm)</td>
</tr>
<tr>
<td>2-1/4&quot; (57mm)</td>
</tr>
</tbody>
</table>

Tapered Cylinder Collar
Furnished only for CSV or NSV trims with 1-1/4" cylinders, double cylinder functions or with 1-1/2" cylinders, single cylinder functions.*

*1-3/4" thick doors. Only used with VR trims.
## Occupancy Indicators*

Occupancy indicators for use with ML2000 x sectional trim. Design features option for dual indicators on double cylinder functions, confirming door is secured from either side. Emergency override standard for all non keyed functions.

**Features:**
- Design eliminates unauthorized entry via indicator tampering
- Non keyed indicators available with emergency slot turn override
- Use with both keyed and non-keyed functions
- For use outside, inside or both sides of door
- Choose outside indicator text: Vacant/Occupied or Secure/Unsecure
- Inside indicators always read Secure/Unsecure
- Torx pin security fasteners (standard with cylinder indicators)

### Indicators – Keyed Functions
- Can be used on either side of door for double cylinder functions
- Compatible with select sectional trim rose designs: A, B, E3, H, J, W, X, Y
- Not available with Master Ring cylinders

<table>
<thead>
<tr>
<th>Secure (M19S)</th>
<th>Packet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door</td>
<td></td>
</tr>
<tr>
<td>1-3/8&quot; (35mm)</td>
<td>720F21 x Finish</td>
</tr>
<tr>
<td>1-3/4&quot; (44mm) - 2&quot; (51mm)</td>
<td>720F22 x Finish</td>
</tr>
<tr>
<td>2-1/4&quot; (57mm)</td>
<td>720F24 x Finish</td>
</tr>
<tr>
<td>Over 2-1/4&quot; (57mm)</td>
<td>720F25 x Finish</td>
</tr>
</tbody>
</table>

### Indicators – Non Keyed Functions
- Inside Indicator always reads Secure/Unsecure
- Outside Indicator features slot-turn emergency override

<table>
<thead>
<tr>
<th>Secure (M19S)</th>
<th>Packet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door</td>
<td></td>
</tr>
<tr>
<td>1-3/8&quot; (35mm)</td>
<td>721F16 x Finish</td>
</tr>
<tr>
<td>1-3/4&quot; (44mm) - 2&quot; (51mm)</td>
<td>721F17 x Finish</td>
</tr>
<tr>
<td>2-1/4&quot; (57mm)</td>
<td>721F18 x Finish</td>
</tr>
<tr>
<td>Over 2-1/4&quot; (57mm)</td>
<td>721F19 x Finish</td>
</tr>
</tbody>
</table>

### Thumbturn Indicator (M19N)
- Located on the inside of the door and reads secure/unsecure
- Built into the occupancy indicator
- Only available in ML2013, ML2017, ML2020, ML2024, ML2029, ML2030, ML2048, ML2049, ML2060, ML2065, ML2067, ML2068, ML2069 and ML2075 functions

<table>
<thead>
<tr>
<th>Door</th>
<th>Packet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3/8&quot; (35mm)</td>
<td>723F69 x Finish</td>
</tr>
<tr>
<td>1-3/4&quot; (44mm) - 2&quot; (51mm)</td>
<td>723F62 x Finish</td>
</tr>
<tr>
<td>2-1/4&quot; (57mm)</td>
<td>791F59 x Finish</td>
</tr>
<tr>
<td>Over 2-1/4&quot; (57mm)</td>
<td>791F60 x Finish</td>
</tr>
</tbody>
</table>

* Not available with BHSS or BLSS Trim
## Occupancy Indicator Quick Codes and Functions

<table>
<thead>
<tr>
<th>Quick Code</th>
<th>Outside</th>
<th>Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>M19S</td>
<td>Secure/Unsecure</td>
<td>— X X X X X X X X X X X X X X X X X X X X X X X X X</td>
</tr>
<tr>
<td>M19V</td>
<td>Vacant/Occupied</td>
<td>— X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X</td>
</tr>
<tr>
<td>M19N</td>
<td>Secure/Unsecure</td>
<td>— X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X</td>
</tr>
<tr>
<td><strong>Double Indicator</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M19SN</td>
<td>Secure/Unsecure</td>
<td>Secure/Unsecure X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X</td>
</tr>
<tr>
<td>M19VN*</td>
<td>Vacant/Occupied</td>
<td>Secure/Unsecure X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X</td>
</tr>
</tbody>
</table>

*Not available with MT1, MT2 and MT3 thumbturns.

### How to Order:

**ML2060 x NSA x 626 x RH x M19V**
Non keyed function x sectional trim x outside indicator with slot turn (text reads Vacant/Occupied)

**ML2072 x NSA x 626 x RH x M19SN x PHS x KA**
Double cylinder x sectional trim x outside indicator (Secure/Unsecure) x inside indicator (Secure/Unsecure) x keyed alike
Options and Accessories
ML2000, ML20900 ECL and ML20600 NAC Series

Cylinders
2 nickel silver keys
Finishes: See Key Systems catalog

<table>
<thead>
<tr>
<th>Mortise Cylinder Type</th>
<th>Quick Code</th>
<th>Hotel Function</th>
<th>42 (inside) 52, 53, 55, 56, 58, 69 Functions</th>
<th>All Other Keyed and 42 (outside) Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access 3º Patented</td>
<td>AP</td>
<td>1501-114-A01</td>
<td>1500-114-A02</td>
<td>1500-114-A01</td>
</tr>
<tr>
<td>Access 3º Security</td>
<td>AS</td>
<td>1601-114-A01</td>
<td>1600-114-A02</td>
<td>1600-114-A01</td>
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<tr>
<td>Access 3º High Security</td>
<td>AHS</td>
<td>1701-114-A01</td>
<td>1700-114-A02</td>
<td>1700-114-A01</td>
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<tr>
<td>Access 3º Patented IC</td>
<td>ACP</td>
<td>N/A</td>
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<td>1580-114-A01</td>
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<tr>
<td>Access 3º Security IC</td>
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<td>1680-114-A01</td>
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<td>Access 3º High Security IC</td>
<td>ACHS</td>
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<td>1788-114-A02</td>
<td>1788-114-A01</td>
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<tr>
<td>Pyramid HS</td>
<td>PHS</td>
<td>N/A</td>
<td>1020-114-A02</td>
<td>1020-114-A01</td>
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<tr>
<td>Pyramid HS IC</td>
<td>PCHS</td>
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<td>1030-114-A02</td>
<td>1030-114-A01</td>
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<tr>
<td>Pyramid Security</td>
<td>PS</td>
<td>N/A</td>
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<td>1027-114-A01</td>
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<tr>
<td>Pyramid Security IC</td>
<td>PCS</td>
<td>N/A</td>
<td>1037-114-A02</td>
<td>1037-114-A01</td>
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<tr>
<td>Conventional 6-pin</td>
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<td>1001-114-A01</td>
<td>1000-118-A02</td>
<td>1000-118-A01</td>
</tr>
<tr>
<td>Conventional 7-pin</td>
<td>7P</td>
<td>N/A</td>
<td>1000-114-A02-7</td>
<td>1000-114-A01-7</td>
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<tr>
<td>6-pin IC</td>
<td>C6</td>
<td>1081-138-A01</td>
<td>1080-114-A02</td>
<td>1080-114-A01</td>
</tr>
<tr>
<td>7-pin IC</td>
<td>C7</td>
<td>N/A</td>
<td>1080-112-A02-7</td>
<td>1080-112-A01-7</td>
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<tr>
<td>Security</td>
<td>HS</td>
<td>1011-114-A01</td>
<td>1010-118-A02</td>
<td>1010-118-A01</td>
</tr>
<tr>
<td>Security IC</td>
<td>CHS</td>
<td>1091-138-A01</td>
<td>1090-114-A02</td>
<td>1090-114-A01</td>
</tr>
<tr>
<td>Flex head 6-pin</td>
<td>FX6</td>
<td>1101-118-A01</td>
<td>1100-100-A02</td>
<td>1100-100-A01</td>
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<tr>
<td>Flex head 7-pin</td>
<td>FX7</td>
<td>N/A</td>
<td>1100-118-A02-7</td>
<td>1100-118-A01-7</td>
</tr>
<tr>
<td>Master ring**</td>
<td>MR</td>
<td>N/A</td>
<td>1060-118-A62</td>
<td>1060-118-A61</td>
</tr>
<tr>
<td>Master ring flex head**</td>
<td>FXM</td>
<td>N/A</td>
<td>1160-100-A62</td>
<td>1160-100-A61</td>
</tr>
<tr>
<td>Plug only to show 6-pin</td>
<td>P06</td>
<td>1201-114-A01</td>
<td>1200-118-A02</td>
<td>1200-118-A01</td>
</tr>
<tr>
<td>Plug only to show 7-pin</td>
<td>P07</td>
<td>N/A</td>
<td>1200-114-A02-7</td>
<td>1200-114-A01-7</td>
</tr>
</tbody>
</table>

To order optional cylinder with lockset, see Quick Codes, page 70.
To order cylinder separately, specify Part No. x Keyway x Finish (e.g., 1000-118-A01 x L4 x 626).

**VR** Indicates function is available with vandal resistant ML2000VR lockset.

**Not available for the following functions: ML2017, ML2029, ML2032, ML2068, ML20900, ML20600 x NAC.
Available for “M” escutcheon and sectional trim only.

Note: Master ring cylinder meets ANSI/BHMA operational Grade 1.

---

Plug only to show (concealed shell)
Only the cylinder plug face is visible when lock trim is in place. Available with “M”, “R”, and “L” escutcheons. See individual trim designs for availability.
Options and Accessories
ML2000, ML20900 ECL and ML20600 NAC Series

Strikes

**ANSI Straight Lip** (standard)
Brass, bronze or stainless steel
Non-handed
4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/8" (29mm) lip to center (standard)
Optional lip lengths: 7/8" (22mm), 1" (25mm), 1-1/8" (29mm), 1-1/4" (32mm), 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2-3/4" (70mm), 3" (76mm)

**ANSI Curved Lip**
Brass, bronze or stainless steel
Handed
4-7/8" (124mm) x 1-1/4" (32mm) x 1-1/4" (32mm) lip to center (standard)
Optional lip lengths: 1-1/8" (29mm), 1-3/8" (35mm), 1-1/2" (38mm), 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), 2-3/4" (70mm), 3" (76mm)

**ANSI Wrought Strike Box**
To order with lockset, see Quick Codes, page 76.
To order separately, specify 120F76.

**Open Back**
Size: 5-1/4" (133mm) x 1/4" (32mm).

<table>
<thead>
<tr>
<th>Hand</th>
<th>Door Thickness</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHR</td>
<td>1-3/4&quot; (44mm)</td>
<td>411L62 016</td>
</tr>
<tr>
<td></td>
<td>2&quot; (51mm)</td>
<td>411L62 018</td>
</tr>
<tr>
<td></td>
<td>2-1/4&quot; (57mm)</td>
<td>411L62 020</td>
</tr>
</tbody>
</table>

**Blank Filler Plate**

To order strike with lockset, see How to Order, page 73.
To order strike separately, specify Part No. x Lip Length x Finish (e.g., 340L60 x 1-1/2" x 626).

**To order strike with lockset, see**
Quick Codes, page 76.
To order separately, specify Part No. x Finish (e.g., 318F66 x 62).

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>236L72</td>
<td>Straight Lip</td>
</tr>
<tr>
<td>340L60</td>
<td>Curved Lip for RH/LHR</td>
</tr>
<tr>
<td>340L61</td>
<td>Curved Lip for LH/RHR</td>
</tr>
</tbody>
</table>

**Rabbeted Front and Strike**
Brass or bronze
For 1/2" (13mm) rabbet
No optional lip lengths

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hand</th>
</tr>
</thead>
<tbody>
<tr>
<td>318F66</td>
<td>RH/LHR</td>
</tr>
<tr>
<td>318F65</td>
<td>RH/LHR</td>
</tr>
<tr>
<td>318F64</td>
<td>RH/LHR</td>
</tr>
<tr>
<td>318F67</td>
<td>RH/LHR</td>
</tr>
</tbody>
</table>

**To order with lockset, see**
Quick Codes, page 76.
To order separately, specify Part No. x Finish (e.g., 318F66 x 626).
Options and Accessories
ML2000 Series, ML20900 ECL and ML20600 NAC

BPS Power Supply

**Operation**
Power supplies are designed to provide reliable filtered and regulated power for long life to a variety of electrified hardware components. All modular power supplies are designed to meet UL 1481 Standards. Recommended for the ML20900, delayed egress exit devices and electric trim.

**Features**
- Fire panel emergency release input
- PC Board mounted system LED indicator
- Regulated and filtered with input and output protection
- Battery charging is provided from a separate output terminal

**Electrical Specifications**
- Inputs: 115VAC @600mA
- Outputs: 12/24 VDC @ 1 Amp, 1.5 Amp or 4 Amp, Filtered and regulated output

**Listings**
- UL & cUL listed 1012 General Purpose Power Supply
- Fire & Burglar Alarm Power Supply Unit URT2
- Releasing device Accessory SYSW
- Access Control Systems Units ALVY
- Burglar Alarm Systems Power Supply APHY

To answer the demand for "smart" electronic access control and locking solutions that require fast, easy, and cost-effective installation, ASSA ABLOY Group brands use the ElectroLynx® standardized plug-in connectors and color-coded wiring system.

**Features of ElectroLynx:**
- Makes it easy to bring power to the locking hardware
- Wires have connectors that snap together, like plugging a telephone into a jack

With ElectroLynx, doorway components come pre-wired for easy hookup to the power source. The key to the system is the transfer device hinge that carries power from the frame to the locking hardware.

**Applications**
- D – Delayed Egress
- M97 – Electric Dogging
- SAF – Fail Safe mortise device trim control
- SEC – Fail Secure mortise device trim control
- ML20900

---

**Requirements for Electrical and Data Transfer**

To connect a ML20900 electrified mortise lock to the electronic access control system, the following items are required:

- ML20900 electrified mortise lock
- ASSA ABLOY Door Group pre-wired door, or ElectroLynx retrofit cable (order from McKinney)

- Electronic transfer device (ElectroLynx electronic transfer hinge or Electrical Power Transfer with standard hinge, from McKinney)
- ElectroLynx cable from the hinge to above the ceiling (order from McKinney)

Information regarding cable selection, hinge requirements and order strings can be found in the McKinney Transfer Device Solutions catalog. Consult 800-810-WIRE (9473) with questions on application specifications and requirements.

The McKinney QC8 ElectroLynx Hinge is recommended for all ML20900 functions and electrified options.
Electrified Options & Accessories
ML20900 ECL and ML20600 NAC

Exit Controls and Switches

Key Switches

MKA - (1) SPDT Maintained
MK - (1) SPDT Momentary
MKN - (1) SPDT Momentary NS
MK2 - (1) DPDT Momentary
MKPZ x MKS - (1) SPDT Momentary with audio Double Gang x Additional Switch
Note: All key switches come standard with 12/24 VDC bi-color LED.

Specifications
- Keyswitch for operation using a standard 1-1/8" mortise cylinder (A02 cam) (cylinder not included).
- Contact Rating 5 Amps @ 12-24VDC
- SPDT 3-position.

Push Buttons

PB2 - (1) SPDT Momentary
PB2 - (1) DPST Remote Momentary
PB3 - (1) DPST Momentary
PB3A - (1) DPST Maintained (Alt. Action)
PB3EA - (1) DPST Alternate

Specifications
- 3 Amps @ 12-24 VDC

Indicator

ZLP - (1) Red and Green LED on narrow gang plate.

Audible/Visual Annunciators

PZ1 - Sonalert 90db @ 2ft. 12-24VDC. Mounted on one gang stainless steel plate.

Digital Entry
DK-11 - Digital Keypad - 4 User
DK-26SS - Digital Keypad NS - 59 User - SS Finish
DK-26BK - Digital Keypad NS - 59 User - Black Finish

Power Transfers
TSB B-C - Door Cord

Electric Accessories

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply 1.0 Amp @ 12 VDC output</td>
</tr>
<tr>
<td>Power supply 3.0 Amp @ 12 VDC output</td>
</tr>
<tr>
<td>Power supply 1.0 Amp @ 24 VDC output</td>
</tr>
<tr>
<td>Power supply 2.0 Amp @ 24 VDC output</td>
</tr>
<tr>
<td>Power supply 4.0 Amp @ 24 VDC output</td>
</tr>
</tbody>
</table>
How to Order
ML2000 Series

Ordering Examples - ML2000 Series

Where to find ordering information and Quick Codes

| ML2000 Series/Function | 5-9 |
| ML20900 ECL Series/Function | 13 |
| Trim Designs | 14-54 |
| Cylinder and Keying | 69 |
| Finish | 69 |
| Strikes | 70 |
| Miscellaneous Options | 70 |
| Door Thickness | 70 |
| Handing | 71 |

Stock Order

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Trim</th>
<th>Finish</th>
<th>Hand</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>ML2055</td>
<td>LWA</td>
<td>626</td>
<td>RHR</td>
</tr>
</tbody>
</table>

Split Trim / Finish Order

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Trim</th>
<th>Finish</th>
<th>Hand</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Outside</td>
<td>Inside</td>
<td>Outside</td>
</tr>
<tr>
<td>12</td>
<td>ML2055</td>
<td>LWA</td>
<td>GRC</td>
<td>626</td>
</tr>
<tr>
<td>12</td>
<td>ML2055</td>
<td>ZSL</td>
<td>—</td>
<td>626</td>
</tr>
<tr>
<td>24</td>
<td>ML2051</td>
<td>MSG</td>
<td>—</td>
<td>605</td>
</tr>
<tr>
<td>12</td>
<td>ML2055</td>
<td>102U</td>
<td>—</td>
<td>626</td>
</tr>
<tr>
<td>24</td>
<td>ML2051</td>
<td>122R</td>
<td>110R</td>
<td>605</td>
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</table>

Contract / Detailed Order

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Keyset</th>
<th>Series/Function</th>
<th>Trim</th>
<th>Finish</th>
<th>Hand</th>
<th>Door Thickness</th>
<th>Optional Strike</th>
<th>Misc. Options</th>
<th>Optional Cylinder</th>
<th>Keying</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>AA1</td>
<td>ML2055</td>
<td>LWA</td>
<td>626</td>
<td>RHR</td>
<td>D214</td>
<td>SA200</td>
<td>M17-M26</td>
<td>C7</td>
<td>VKC3</td>
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<tr>
<td>6</td>
<td>AA1</td>
<td>ML2055VR</td>
<td>NSV</td>
<td>630</td>
<td>RH</td>
<td>D214</td>
<td>SS114</td>
<td>M17</td>
<td>PCHS</td>
<td>VKC1</td>
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</table>

Working Trim Only

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Function Only</th>
<th>Trim</th>
<th>Finish</th>
<th>Hand</th>
<th>Door Thickness</th>
<th>Misc. Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>ML2055</td>
<td>LWA</td>
<td>626</td>
<td>RHR</td>
<td>D214</td>
<td>M31</td>
</tr>
<tr>
<td>1</td>
<td>ML2055VR</td>
<td>NSV</td>
<td>630</td>
<td>RH</td>
<td>D214</td>
<td>M31</td>
</tr>
</tbody>
</table>

Note: Arrow indicates secure side of door.

Includes grip and spindle, rose or escutcheon, thumbturn lever, emergency key plate, adapters and screws.
How To Order
ML2000 ECL, ML20900 ECL and ML20600 NAC Series

Lock Only (Includes lock case, armored front, strike and screw pack)

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Trim*</th>
<th>Finish</th>
<th>Hand</th>
<th>Door Thickness</th>
<th>Optional Strike</th>
<th>Misc. Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>ML2055</td>
<td>LL</td>
<td>626</td>
<td>RHR</td>
<td>D138</td>
<td>SS078</td>
<td>M17</td>
</tr>
</tbody>
</table>

*TRIM KEY
KK Knob x Knob
LL Lever x Lever
LK Lever x Knob
KL Knob x Lever
HL Lever Inside Only
HK Knob Inside Only

Ordering Examples - ML20900 ECL Series

Lock Only (Includes lock case, armored front, strike and screw pack)

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Trim*</th>
<th>Finish</th>
<th>Hand</th>
<th>Fail Safe/ Fail Secure</th>
<th>Misc. Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>ML20914</td>
<td>LL</td>
<td>626</td>
<td>RHR</td>
<td>SAF</td>
<td>M105</td>
</tr>
</tbody>
</table>

*TRIM KEY
KK Knob x Knob
LL Lever x Lever
LK Lever x Knob
KL Knob x Lever
HL Lever Inside Only
HK Knob Inside Only

Contract / Detailed Order

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Keyset</th>
<th>Series/Function</th>
<th>Trim</th>
<th>Finish</th>
<th>Hand</th>
<th>Fail Safe/ Fail Secure</th>
<th>Misc. Options</th>
<th>Optional Cylinder</th>
<th>Keying</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>AA1</td>
<td>ML20914</td>
<td>LWA</td>
<td>626</td>
<td>RHR</td>
<td>SEC</td>
<td>M20</td>
<td>7P</td>
<td>VKC3</td>
</tr>
</tbody>
</table>

Ordering Examples - ML20600 NAC Series

Stock Order

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Technology Code</th>
<th>Trim</th>
<th>Finish</th>
<th>Hand</th>
<th>Fail-Safe/ Fail-Secure</th>
<th>High Security Monitoring Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>ML20608</td>
<td>NAC</td>
<td>111X</td>
<td>626</td>
<td>RHR</td>
<td>SEC</td>
<td>PHRR01</td>
</tr>
</tbody>
</table>

- ML2000 Mortise Lock x NAC x No Cylinder x Deadbolt x Fail-Secure
- Muséo® lever 111 with X rose
- Satin chrome finish
- Right hand reverse
- Deadbolt privacy function, Mercury and Lenel compatible 1KΩ/2KΩ resistance supervision

Stock Order

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Technology Code</th>
<th>Trim</th>
<th>Finish</th>
<th>Hand</th>
<th>Fail-Safe/ Fail-Secure</th>
<th>High Security Monitoring Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>ML20607</td>
<td>NAC</td>
<td>111X</td>
<td>626</td>
<td>RHR</td>
<td>SEC</td>
<td>R03</td>
</tr>
</tbody>
</table>

- ML2000 Mortise Lock x NAC x No Cylinder x No Deadbolt x Fail-Secure
- Muséo® lever 111 with X rose
- Satin chrome finish
- Right hand reverse
- Software House compatible 1KΩ/2KΩ resistance supervision
How to Order the Muséo® Piet Levers
ML2000 and ML20900 ECL Series

Piet Finish Codes

<table>
<thead>
<tr>
<th>ANSI/BHMA Finish</th>
<th>Piet Code*</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>630</td>
<td>30</td>
<td>Satin Stainless Steel</td>
</tr>
<tr>
<td>629</td>
<td>29</td>
<td>Bright Stainless Steel</td>
</tr>
<tr>
<td>N/A</td>
<td>BH</td>
<td>Wood insert</td>
</tr>
<tr>
<td>N/A</td>
<td>BK</td>
<td>Black (Santoprene™ or leather insert)</td>
</tr>
<tr>
<td>N/A</td>
<td>BN</td>
<td>Brown (leather insert)</td>
</tr>
<tr>
<td>N/A</td>
<td>00</td>
<td>No Insert</td>
</tr>
</tbody>
</table>

*Code used to specify Piet Collection finishes only. Use available finishes list to specify desired finish when ordering.

Piet Lever Descriptions & Available Finishes

<table>
<thead>
<tr>
<th>Lever Designation</th>
<th>Lever Description</th>
<th>Available Finishes (as ordered)</th>
</tr>
</thead>
<tbody>
<tr>
<td>21G</td>
<td>Grooved Insert</td>
<td>303030, 292929, 293029, 302930, 3E003E, BP00BP, WS00WS</td>
</tr>
<tr>
<td>21L</td>
<td>Leather Insert</td>
<td>30BK30, 30BN30, 29BK29, 29BN29, 3EBK3E, BSBKBS, WSBKWS, 3EBN3E, BSBNBS, WSBNWS</td>
</tr>
<tr>
<td>21M</td>
<td>Metallic Insert</td>
<td>293029, 303030**</td>
</tr>
<tr>
<td>21S</td>
<td>Santoprene Insert</td>
<td>30BK30, 29BK29, 3E003E, BS00BS, WS00WS</td>
</tr>
<tr>
<td>23M</td>
<td>Raised Band</td>
<td>290030, 290029, 300030, 300029, 3E003E, BS00BS, WS00WS**</td>
</tr>
<tr>
<td>25M</td>
<td>Plain</td>
<td>290029, 300030, 3E003E, BS00BS, WS00WS</td>
</tr>
<tr>
<td>27M</td>
<td>Two Grooves</td>
<td>290029, 300030, 3E003E, BS00BS, WS00WS</td>
</tr>
</tbody>
</table>

**Two-tone finish - grip of lever is 630, balance of lever is 629. Rose/escutcheon and lock finish will be 629.

Ordering Examples

Rose Options: E2, E3, E4, T, U, V, W, X, Y
Escutcheon Options: L, R

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Series/Function</th>
<th>Trim</th>
<th>Lever Finish</th>
<th>Lock Finish</th>
<th>Hand</th>
<th>Thumbturn Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>ML2055</td>
<td>21LU</td>
<td>29BK29</td>
<td>629</td>
<td>RH</td>
<td>MT3</td>
</tr>
<tr>
<td>1</td>
<td>ML2051</td>
<td>23ML</td>
<td>290030</td>
<td>629</td>
<td>RH</td>
<td>MT3</td>
</tr>
</tbody>
</table>
### Cylinder and Keying

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conventional 6-pin</td>
<td>(standard)</td>
</tr>
<tr>
<td>Conventional 7-pin</td>
<td>7P</td>
</tr>
<tr>
<td>Less cylinder(s)</td>
<td>LC</td>
</tr>
<tr>
<td>IC 6-pin</td>
<td>C6</td>
</tr>
<tr>
<td>IC 6-pin with temporary construction core</td>
<td>Red: CT6R, Blue: CT6B, Green: CT6G</td>
</tr>
<tr>
<td>IC 6-pin less core</td>
<td>CL6</td>
</tr>
<tr>
<td>SFIC 6-pin with SFIC disposable temporary core</td>
<td>CT6SD</td>
</tr>
<tr>
<td>SFIC 6-pin with Less Core</td>
<td>CLS6</td>
</tr>
<tr>
<td>IC 7-pin</td>
<td>C7</td>
</tr>
<tr>
<td>IC 7-pin with temporary construction core</td>
<td>Red: CT7R, Blue: CT7B, Green: CT7G</td>
</tr>
<tr>
<td>IC 7-pin less core</td>
<td>CL7</td>
</tr>
<tr>
<td>SFIC 7-pin with SFIC disposable temporary core</td>
<td>CT7SD</td>
</tr>
<tr>
<td>SFIC 7-pin with Less Core</td>
<td>CLS7</td>
</tr>
<tr>
<td>Security</td>
<td>HS</td>
</tr>
<tr>
<td>Security IC</td>
<td>CHS</td>
</tr>
<tr>
<td>Access 3 - Patented</td>
<td>AP</td>
</tr>
<tr>
<td>Access 3 - Security</td>
<td>AS</td>
</tr>
<tr>
<td>Access 3 - High Security</td>
<td>AHS</td>
</tr>
<tr>
<td>Access 3 IC - Patented</td>
<td>ACP</td>
</tr>
<tr>
<td>Access 3 IC - Security</td>
<td>ACS</td>
</tr>
<tr>
<td>Access 3 IC - High Security</td>
<td>ACHS</td>
</tr>
<tr>
<td>UL IC 6-Pin Housing Less Core</td>
<td>CL6AH</td>
</tr>
<tr>
<td>UL IC 6-Pin Housing with Disposable Core</td>
<td>CTAHD</td>
</tr>
<tr>
<td>UL IC 6-Pin Housing with (Red/Blue/Green) Temporary Construction Core</td>
<td>CT6AH(R/B/G)</td>
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<tr>
<td>Pyramid High Security Fixed Core</td>
<td>PHS</td>
</tr>
<tr>
<td>Pyramid High Security IC</td>
<td>PCHS</td>
</tr>
<tr>
<td>Pyramid IC Less Core</td>
<td>CLP</td>
</tr>
<tr>
<td>Pyramid with temporary construction core</td>
<td>CTP</td>
</tr>
<tr>
<td>Pyramid Security</td>
<td>PS</td>
</tr>
<tr>
<td>Pyramid Security IC</td>
<td>PCS</td>
</tr>
<tr>
<td>Pyramid Disposable Core</td>
<td>CTPD</td>
</tr>
<tr>
<td>6-Pin Disposable Core</td>
<td>CT6D</td>
</tr>
<tr>
<td>7-Pin Disposable Core</td>
<td>CT7D</td>
</tr>
<tr>
<td>Master ring</td>
<td>MR</td>
</tr>
<tr>
<td>Flex head cylinder, 6-pin (sectional trim)</td>
<td>FX6</td>
</tr>
<tr>
<td>Flex head cylinder, 7-pin (sectional trim)</td>
<td>FX7</td>
</tr>
<tr>
<td>Flex head cylinder, master ring (sectional trim)</td>
<td>F XM</td>
</tr>
<tr>
<td>Plug only to show, 6-pin (concealed shell, M and R escutcheons only, single cylinder only)</td>
<td>PO6</td>
</tr>
<tr>
<td>Plug only to show, 7-pin (concealed shell, M and R escutcheons only, single cylinder only)</td>
<td>PO7</td>
</tr>
<tr>
<td>Plug only, less cylinder</td>
<td>PO-LC</td>
</tr>
</tbody>
</table>

**Indicates availability with ML200VR lockset**

*Not available UC Uncombinated

### Finishes

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANSI/BHMA 605 (US3)</td>
<td>Bright Brass</td>
</tr>
<tr>
<td>ANSI/BHMA 606 (US4)</td>
<td>Satin Brass</td>
</tr>
<tr>
<td>ANSI/BHMA 611 (US9)</td>
<td>Bright Bronze</td>
</tr>
<tr>
<td>ANSI/BHMA 612 (US10)</td>
<td>Satin Bronze</td>
</tr>
<tr>
<td>ANSI/BHMA 613 (US10B)</td>
<td>Oxidized Bronze, oil rubbed</td>
</tr>
<tr>
<td>613E (US10BE)</td>
<td>Dark Oxidized Satin Bronze - Equivalent</td>
</tr>
<tr>
<td>613L</td>
<td>Dark Oxidized Satin Bronze, Clear Coated</td>
</tr>
<tr>
<td>ANSI/BHMA 618 (US14)</td>
<td>Bright Nickel Plated</td>
</tr>
<tr>
<td>ANSI/BHMA 619 (US15)</td>
<td>Satin Nickel Plated</td>
</tr>
<tr>
<td>ANSI/BHMA 625 (US26)</td>
<td>Bright Chromium Plated</td>
</tr>
<tr>
<td>ANSI/BHMA 626 (US26D)</td>
<td>Chromium Plated</td>
</tr>
<tr>
<td>626C</td>
<td>Satin Chromium Plated with MicroShield®</td>
</tr>
<tr>
<td>ANSI/BHMA 629 (US32)</td>
<td>Bright Stainless Steel</td>
</tr>
<tr>
<td>ANSI/BHMA 630 (US32D)</td>
<td>Satin Stainless Steel</td>
</tr>
<tr>
<td>630C</td>
<td>Satin Stainless Steel with MicroShield®</td>
</tr>
<tr>
<td>722</td>
<td>Black Oxidized Bronze, oil rubbed</td>
</tr>
<tr>
<td>BSP</td>
<td>Black Suede Powder Coat</td>
</tr>
<tr>
<td>WSP</td>
<td>White Suede Powder Coat</td>
</tr>
</tbody>
</table>

1. Not available with ML2029
Quick Codes
ML2000, ML20900 ECL and ML20600 NAC Series

**Miscellaneous Options**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanner head screws</td>
<td>M02</td>
</tr>
<tr>
<td>Torx® head screws (not available for “N” escutcheon trims (Standard for ML2000VR. Optional for other trims)</td>
<td>M04</td>
</tr>
<tr>
<td>Blank Escutcheon Inside (only available for ML2000VR, not available for ML2000)</td>
<td>M07</td>
</tr>
<tr>
<td>ANSI wrought strike box</td>
<td>M17</td>
</tr>
<tr>
<td>Hotel occupancy indicator (Only available for ML2029)</td>
<td>M19</td>
</tr>
<tr>
<td>Single Occupancy Indicator - Secure/Unsecure (Outside)</td>
<td>M19S</td>
</tr>
<tr>
<td>Single Occupancy Indicator - Vacant/Occupied (Outside)</td>
<td>M19V</td>
</tr>
<tr>
<td>Single Occupancy Indicator - Secure/Unsecure (Inside)</td>
<td>M19N</td>
</tr>
<tr>
<td>Double Occupancy Indicator - Secure/Unsecure (Outside) Secure/Unsecure (Inside)</td>
<td>M19SN</td>
</tr>
<tr>
<td>Double Indicator Vacant/Occupied (Outside) Secure/Unsecure (Inside)</td>
<td>M19VN</td>
</tr>
<tr>
<td>*Knurling outside and inside</td>
<td>M20</td>
</tr>
<tr>
<td>*Knurling outside only</td>
<td>M21</td>
</tr>
<tr>
<td>*Knurling inside only</td>
<td>M22</td>
</tr>
<tr>
<td>*Abrasive coat outside and inside</td>
<td>M23</td>
</tr>
<tr>
<td>*Abrasive coat inside only</td>
<td>M24</td>
</tr>
<tr>
<td>*Abrasive coat outside only</td>
<td>M25</td>
</tr>
<tr>
<td>Non-ferrous lockcase (ML2000 only)</td>
<td>M26</td>
</tr>
<tr>
<td>Lead-wrapped case</td>
<td>M29</td>
</tr>
<tr>
<td>Half trim (for ML2010, ML2020, ML2022, ML2024, ML2029, ML2030, ML2032, ML2052, ML2053, ML2055, ML2056, ML2057, ML2058, ML2059, ML2062, ML2065) (Supplied with inside trim only. Includes cylinder)</td>
<td>M30</td>
</tr>
<tr>
<td>Working trim only</td>
<td>M31</td>
</tr>
<tr>
<td>Latch hold back (for ML2042, ML2052, ML2055, ML2051, ML2057 only)</td>
<td>M30</td>
</tr>
<tr>
<td>Tapered Cylinder Collar (HPSK only)</td>
<td>M111</td>
</tr>
<tr>
<td>Laser Engraving</td>
<td>LASER</td>
</tr>
</tbody>
</table>

*Knurling outside and inside | M20
*Knurling outside only | M21
*Knurling inside only | M22
*Abrasive coat outside and inside | M23
*Abrasive coat inside only | M24
*Abrasive coat outside only | M25

**Door Thickness**

**Miscellaneous Options**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanner head screws</td>
<td>M02</td>
</tr>
<tr>
<td>Torx® head screws (not available for “N” escutcheon trims (Standard for ML2000VR. Optional for other trims)</td>
<td>M04</td>
</tr>
<tr>
<td>Blank Escutcheon Inside (only available for ML2000VR, not available for ML2000)</td>
<td>M07</td>
</tr>
<tr>
<td>ANSI wrought strike box</td>
<td>M17</td>
</tr>
<tr>
<td>Hotel occupancy indicator (Only available for ML2029)</td>
<td>M19</td>
</tr>
<tr>
<td>Single Occupancy Indicator - Secure/Unsecure (Outside)</td>
<td>M19S</td>
</tr>
<tr>
<td>Single Occupancy Indicator - Vacant/Occupied (Outside)</td>
<td>M19V</td>
</tr>
<tr>
<td>Single Occupancy Indicator - Secure/Unsecure (Inside)</td>
<td>M19N</td>
</tr>
<tr>
<td>Double Occupancy Indicator - Secure/Unsecure (Outside) Secure/Unsecure (Inside)</td>
<td>M19SN</td>
</tr>
<tr>
<td>Double Indicator Vacant/Occupied (Outside) Secure/Unsecure (Inside)</td>
<td>M19VN</td>
</tr>
<tr>
<td>*Knurling outside and inside</td>
<td>M20</td>
</tr>
<tr>
<td>*Knurling outside only</td>
<td>M21</td>
</tr>
<tr>
<td>*Knurling inside only</td>
<td>M22</td>
</tr>
<tr>
<td>*Abrasive coat outside and inside</td>
<td>M23</td>
</tr>
<tr>
<td>*Abrasive coat inside only</td>
<td>M24</td>
</tr>
<tr>
<td>*Abrasive coat outside only</td>
<td>M25</td>
</tr>
<tr>
<td>Non-ferrous lockcase (ML2000 only)</td>
<td>M26</td>
</tr>
<tr>
<td>Lead-wrapped case</td>
<td>M29</td>
</tr>
<tr>
<td>Half trim (for ML2010, ML2020, ML2022, ML2024, ML2029, ML2030, ML2032, ML2052, ML2053, ML2055, ML2056, ML2057, ML2058, ML2059, ML2062, ML2065) (Supplied with inside trim only. Includes cylinder)</td>
<td>M30</td>
</tr>
<tr>
<td>Working trim only</td>
<td>M31</td>
</tr>
<tr>
<td>Latch hold back (for ML2042, ML2052, ML2055, ML2051, ML2057 only)</td>
<td>M30</td>
</tr>
<tr>
<td>Tapered Cylinder Collar (HPSK only)</td>
<td>M111</td>
</tr>
<tr>
<td>Laser Engraving</td>
<td>LASER</td>
</tr>
</tbody>
</table>

*Not available with Vineyard™ or Muséo® levers. ** Must use A02 cam when LHB is specified

**Door Thickness**

<table>
<thead>
<tr>
<th>Door Thickness</th>
<th>Sectional Trim - Specify</th>
<th>Escutcheon* Trim - Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3/8&quot; (35mm)**</td>
<td>D138</td>
<td>D138</td>
</tr>
<tr>
<td>1-3/4&quot; (44mm)</td>
<td>D178</td>
<td>D178</td>
</tr>
<tr>
<td>2&quot; (51mm)</td>
<td>D200</td>
<td>D200</td>
</tr>
<tr>
<td>2-1/8&quot; (54mm)</td>
<td>D218</td>
<td>D218</td>
</tr>
<tr>
<td>2-1/4&quot; (57mm)</td>
<td>D214</td>
<td>D214</td>
</tr>
<tr>
<td>2-3/8&quot; (60mm)</td>
<td>D238</td>
<td>D238</td>
</tr>
<tr>
<td>2-1/2&quot; (64mm)</td>
<td>D212</td>
<td>D212</td>
</tr>
<tr>
<td>2-5/8&quot; (67mm)</td>
<td>D258</td>
<td>D258</td>
</tr>
<tr>
<td>2-3/4&quot; (70mm)</td>
<td>D234</td>
<td>D234</td>
</tr>
<tr>
<td>2-7/8&quot; (73mm)</td>
<td>D278</td>
<td>D278</td>
</tr>
<tr>
<td>3&quot; (76mm)</td>
<td>D300</td>
<td>D300</td>
</tr>
<tr>
<td>3-1/8&quot; (79mm)</td>
<td>D318</td>
<td>D318</td>
</tr>
<tr>
<td>3-1/4&quot; (83mm)</td>
<td>D314</td>
<td>D314</td>
</tr>
<tr>
<td>3-3/8&quot; (86mm)</td>
<td>D338</td>
<td>D338</td>
</tr>
<tr>
<td>3-1/2&quot; (89mm)</td>
<td>D312</td>
<td>D312</td>
</tr>
<tr>
<td>3-5/8&quot; (92mm)</td>
<td>D358</td>
<td>D358</td>
</tr>
<tr>
<td>3-3/4&quot; (95mm)</td>
<td>D334</td>
<td>D334</td>
</tr>
<tr>
<td>3-7/8&quot; (98mm)</td>
<td>D378</td>
<td>D378</td>
</tr>
<tr>
<td>4&quot; (102mm)</td>
<td>D400</td>
<td>D400</td>
</tr>
</tbody>
</table>

+ HPSK is only available for 1-3/4" door thickness
* For 2-3/8" (60mm) to 4" (102mm) door thickness: throughbolts and thumbturn lever spindle for 4" door will be provided; may be field cut. “R” & “L” escutcheons only available 1-3/8" (35mm), 1-3/4" (44mm), and 2-1/4" (57mm).
** 1-1/16" (27mm) front standard for 1-3/8" (35mm) door
Vandal Resistant trim accommodates doors 1-3/4" (44mm) to 2-1/4" (57mm). Door thicknesses other than 1-3/4" (19mm) must be specified.

**Strikes**

Available for ML2000VR

<table>
<thead>
<tr>
<th>ANSI Lip to Center</th>
<th>ANSI Straight Lip Specify</th>
<th>Curved Lip Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/8&quot; (22mm)</td>
<td>SS078</td>
<td>N/A</td>
</tr>
<tr>
<td>1-1/8&quot; (29mm) (standard)</td>
<td>SS114</td>
<td>SA118</td>
</tr>
<tr>
<td>1-1/4&quot; (32mm)</td>
<td>SS114</td>
<td>SA114</td>
</tr>
<tr>
<td>1-3/8&quot; (35mm)</td>
<td>SS138</td>
<td>SA138</td>
</tr>
<tr>
<td>1-1/2&quot; (38mm)</td>
<td>SS112</td>
<td>SA112</td>
</tr>
<tr>
<td>1-3/4&quot; (44mm)</td>
<td>SS134</td>
<td>SA134</td>
</tr>
<tr>
<td>2&quot; (51mm)</td>
<td>SS200</td>
<td>SA200</td>
</tr>
<tr>
<td>2-1/4&quot; (57mm)</td>
<td>SS214</td>
<td>SA214</td>
</tr>
<tr>
<td>2-1/2&quot; (64mm)</td>
<td>SS212</td>
<td>SA212</td>
</tr>
<tr>
<td>2-3/4&quot; (70mm)</td>
<td>SS234</td>
<td>SA234</td>
</tr>
<tr>
<td>3&quot; (76mm)</td>
<td>SS300</td>
<td>SA300</td>
</tr>
</tbody>
</table>

**Open Back Strike**

<table>
<thead>
<tr>
<th>Door Thickness</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3/4&quot; (44mm)</td>
<td>SB134</td>
</tr>
<tr>
<td>2&quot; (51mm)</td>
<td>SB200</td>
</tr>
<tr>
<td>2-1/4&quot; (57mm)</td>
<td>SB214</td>
</tr>
</tbody>
</table>

Rabbeted front and strike – Specify SR118
Quick Codes
ML2000, ML20900 ECL and ML20600 NAC Series

Handing

<table>
<thead>
<tr>
<th>Hand Describe</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right Hand</td>
<td>RH</td>
</tr>
<tr>
<td>Left Hand</td>
<td>LH</td>
</tr>
<tr>
<td>Right Hand Reverse</td>
<td>RHR</td>
</tr>
<tr>
<td>Left Hand Reverse</td>
<td>LHR</td>
</tr>
</tbody>
</table>

These options may be ordered together only as follows: M91xM92, M92xM105.

Electric Monitor Options
(ML2000/ML20900 Series Only)

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latchbolt Monitor</td>
<td>M91</td>
</tr>
<tr>
<td>Request to Exit</td>
<td>M92</td>
</tr>
<tr>
<td>Security Monitor</td>
<td>M105</td>
</tr>
</tbody>
</table>

Electric Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply 1.0 Amp @ 12 VDC output</td>
<td>BPS-12-1</td>
</tr>
<tr>
<td>Power supply 3.0 Amp @ 12 VDC output</td>
<td>BPS-12-3</td>
</tr>
<tr>
<td>Power supply 1.0 Amp @ 24 VDC output</td>
<td>BPS-24-1</td>
</tr>
<tr>
<td>Power supply 2.0 Amp @ 24 VDC output</td>
<td>BPS-24-2</td>
</tr>
<tr>
<td>Power supply 4.0 Amp @ 24 VDC output</td>
<td>BPS-24-4</td>
</tr>
</tbody>
</table>

Panel Applications
(Material added to the door face, increasing the overall door thickness)

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centerline of lockcase to edge of panel not to exceed 2&quot;</td>
<td>PNL</td>
</tr>
</tbody>
</table>

Functions Available with Monitor Options

<table>
<thead>
<tr>
<th>Function</th>
<th>M91</th>
<th>M92</th>
<th>M105</th>
<th>M91 + M92</th>
<th>M92 + M105</th>
</tr>
</thead>
<tbody>
<tr>
<td>ML2010, ML2080, ML2090</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>ML2020, ML2022, ML2024, ML2030, ML2062, ML2065</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML2029*, ML2032*, ML2049*, ML2057*, ML2059*, ML2092*</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>ML2002, ML2003, ML2042, ML2052, ML2053, ML2054, ML2055, ML2056, ML2058, ML2087</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML2048, ML2051, ML2067, ML2082</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ML20906, ML20907, ML20914, ML20915, ML20932, ML20987</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* M105 becomes DPS
Notes: ML2051 & ML2057 with LHB is not available with monitor options. Not available with M30.

Fail Safe/Fail Secure

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fail safe</td>
<td>SAF</td>
</tr>
<tr>
<td>Fail secure</td>
<td>SEC</td>
</tr>
</tbody>
</table>

Thumbturns

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ergonomic</td>
<td>M34</td>
</tr>
<tr>
<td>Decorative</td>
<td>MT1</td>
</tr>
<tr>
<td>Decorative Square</td>
<td>MT2</td>
</tr>
<tr>
<td>Decorative Cylinder</td>
<td>MT2</td>
</tr>
</tbody>
</table>

See page 63 for images of decorative thumbturns

ML20600NAC - End-of-Line Resistors and Deadbolt Privacy Quick Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Specify</th>
</tr>
</thead>
<tbody>
<tr>
<td>No End-of-Line Resistors</td>
<td>Blank</td>
</tr>
<tr>
<td>Mercury / Lenel 1KΩ/2KΩ</td>
<td>R01</td>
</tr>
<tr>
<td>Software House 1KΩ/2KΩ</td>
<td>R03</td>
</tr>
<tr>
<td>AMAG 4-State Supervision</td>
<td>R04</td>
</tr>
<tr>
<td>Deadbolt Privacy</td>
<td>PHR</td>
</tr>
<tr>
<td>Deadbolt Privacy and Mercury / Lenel 1KΩ/2KΩ</td>
<td>PHRR01</td>
</tr>
<tr>
<td>Deadbolt Privacy and Software House 1KΩ/2KΩ</td>
<td>PHRR03</td>
</tr>
<tr>
<td>Deadbolt Privacy and AMAG 4-State</td>
<td>PHRR04</td>
</tr>
</tbody>
</table>
ML2000 Series Suggested Specification

All locksets shall be ML2000 Series Mortise Locksets as manufactured by Corbin Russwin Architectural Hardware.

Locks shall have all functions available in one size case, manufactured from heavy gauge steel, minimum thickness 3/32" (2mm). The handing of all locks shall be reversible without the disassembly of the lockcase. Cases are to be closed on all sides to protect internal parts. Locks are to have adjustable, beveled and armored fronts, standard 2-3/4" (70mm) backset, a full 3/4" (19mm) throw two-piece mechanical anti-friction latchbolt, and a one-piece stainless steel 1" (25mm) throw deadbolt, and shall be available for a minimum door thickness of 1-3/8" (35mm). Internal parts shall be heavy gauge steel, zinc dichromate plated for corrosion resistance.

All locksets with latchbolts, regardless of trim, shall be listed by Underwriters Laboratories for A label and lesser class doors, 4' x 10' single or 8' x 10' pair.

Locksets to be used on specified exterior doors or doors subject to special atmospheric conditions (roofs, pool areas, chemical laboratories, sewage disposal plants, etc.) shall have non-ferrous lock cases and critical internal components.

Cylinder options shall include master ring, flexible head, concealed shell, interchangeable core, security, Pyramid and Access 3 types.

Certification:
- UBC - 7 - 2 and UL10C - Positive Pressure
- Federal Specification FF-H-106G
- ANSI/BHMA A156.13 Series 1000, Grade 1
- ANSI/BHMA A117.1, Accessibility Code (formerly Title 19, California State Fire Marshal Standard) (lever handle trim).

All locks, trim, and cylinders shall be from one manufacturer.

All locksets shall carry a ten-year limited warranty.

ML2000 Series Mortise Locks with BHSS and BLSS Trim

A. Ligature Resistant, Mortise: ANSI/BHMA A156.13, Series 1000, Operational and Security Grade 1 mortise type manufactured to accepted OMH requirements with ligature-resistant lever and escutcheon trim. Locksets to be manufactured with a corrosion resistant, formed steel case. Levers and escutcheons are manufactured from stainless steel material. Provide optional lead-lining (lock body), Torx® fasteners, and Antimicrobial coating as specified in Hardware Sets.

B. Ligature Resistant, Mortise: ANSI/BHMA A156.13, Series 1000, Operational and Security Grade 1 mortise type manufactured to [accepted] [Use with caution] OMH requirements with ligature-resistant lever and rose trim. Locksets to be manufactured with a corrosion resistant, formed steel case. Levers and roses are manufactured from stainless steel material. Provide optional lead-lining (lock body), Torx® fasteners, and Antimicrobial coating as specified in Hardware Sets.
ML2000 Series Mortise Locksets with Vandal Resistant Trim
Suggested Specification

All locksets shall be ML2000VR Series Mortise Locksets as manufactured by Corbin Russwin Architectural Hardware.

Locks shall have all functions available in one size case, manufactured from heavy gauge steel, minimum thickness 3/32” (2mm). The handing of all locks shall be reversible without the disassembly of the lockcase. Cases are to be closed on all sides to protect internal parts. Locks are to have adjustable, beveled and armored fronts, standard 2-3/4” (70mm) backset, a full 3/4” (19mm) throw two-piece mechanical anti-friction latchbolt, and a one-piece stainless steel 1” (25mm) throw deadbolt, and shall be available for a minimum door thickness of 1-3/4” (44mm). Internal parts shall be heavy gauge steel, zinc dichromate plated for corrosion resistance.

High security escutcheon trim shall be cast (stainless) steel with tapered design top and bottom to resist forced entry, excessive abuse and vandalism. Size to be 8-1/2” (216mm) high x 2-1/8” (54mm) wide x 5/16” (8mm) thick with double throughbolts and 2 post lugs to receive torx® pin tamper-resistant security screws through both escutcheons. Alignment posts shall be located over and under the spindle for rigidity and security and shall project through the lock case to ensure proper alignment. Escutcheons to accept cast levers (Newport or Citation) which accept free-floating spindles with a torque resistance of 700 inch lbs. Size of spindle to be 5/16” (8mm) and extend from both sides of the escutcheon. Levers will remain attached if spindle is broken. Lobular torx® pin drive self-tapping screws and lobular throughbolts furnished standard for vandal resistance.

Locksets that are to be used on specified exterior doors or doors subject to special atmospheric conditions (roofs, pool areas, chemical laboratories, sewage disposal plants, etc.) shall have non-ferrous lock cases and critical internal components.

Locksets to be furnished standard with conventional 6-pin fixed core cylinders.

Optional cylinders shall include IC, Access 3, security and Pyramid. Furnish a tapered vandal-resistant cylinder collar where necessary.

Certification:
UBC - 7 - 2 and UL10C - Positive Pressure
Federal Specification FF-H-106G
ANSI/BHMA A156.13 Series 1000, Grade 1
ANSI/BHMA A117.1, Accessibility Code (formerly Title 19, California State Fire Marshal Standard) (lever handle trim).

All locks, trim, and cylinders shall be from one manufacturer.

All locksets shall carry a ten-year limited warranty.
How To Specify
ML2000 Series

ML20900 ECL Series
Suggested Specification

ECOFLEX® ELECTRIFIED
MORTISE LOCKS

A. CORBIN RUSSWIN ML20900
Electrified Mortise Locks

1. General: ANSI/BHMA certified extra heavy duty, lever type mortise lock conforming to ANSI/BHMA A156.13 Series 1000, Grade 1 requirements and ANSI A117.1 accessibility guidelines. All functions manufactured in a single sized case formed from a minimum 12 gauge steel. Lockset is field-adjustable for handing without opening the lock body with a beveled armored front that is 0.125" minimum thickness and utilizes a one piece 3/4” anti-friction stainless steel latchbolt. To insure proper alignment, all trim, shall be thru-bolted and fully interchangeable between rose and escutcheon designs. Lock is UL/cUL listed and labeled for use on up to 3 hour fire rated openings.
   a. Backsets: 2-3/4”.
   b. Deadbolt: Optional 1” throw made of stainless steel and 2 hardened steel roller inserts.
   c. Strikes: Provide wrought boxes and strikes with proper lip length to protect trim but not to project more than 1/8” beyond trim, frame or inactive leaf. Where required, provide open back strike and protected to allow practical and secure operation.

2. Provide access control mortise lock series, type and functions where specified in hardware groups, with provisions below:
   a. Emergency override access capability with key cylinder retraction of lock latch bolt without necessary electronic activation.
   b. Inside lever retracts latch and deadbolt simultaneously for free egress.
   c. Refer to "KEYING" specification section for keying system requirements.
   d. Lever and finish to match corresponding mechanical locking hardware.

3. Locking and unlocking of the lever handle by electronic operation contained completely within the body of the mortise lock.
   a. Field configurable Fail Safe /Fail Secure by means of an external DIP switch setting.
   b. Operationally voltage-insensitive 12 to 24 VDC.
   c. Energy Performance: Maximum standby current required for functional operation not to exceed 50 mA at 24 VDC limiting potential inductive kickback or the need for external diodes.
   d. Functional locking operation not affected by cable runs greater than 500 feet using a minimum 22 AWG wire.

4. Monitoring: Optional real time monitoring of latchbolt, deadbolt, door open/closed status and valid egress where specified. Valid egress signaled by activation of the Request-to-Exit (RX) micro switch integral to the inside lever of the lockset on the unsecure side of the door capable of shutting external alarms. Door open/closed status provided by monitoring the deadlatch and latchbolt in series with optional integrated magnetic door position switch.

5. Perform centralized control of the integrated locking functions by means of a single cable run to the access control panel independent of any proprietary power supplies, interface boards or controllers.
   a. End of line termination points by means of factory pre-wired Molex® connectors and harnesses.
   b. Source power electrical hard wiring and connections by others.
Instructions for reversing the hand of the ML2000 Series.

Step 1) Move the Red locking screw to side of lock-body being locked (Fig. 1)

Step 2) Push in latch then depress catch plate with screw driver (Fig. 1)

Step 3) Pull latch out of lock-body and turn latch over (Fig. 2)

Step 4) Push in latch while holding screw driver behind latch tail (Fig. 3)

Note: Push in latch until catch plate is no longer depressed (Fig. 4)

Step 5) Rotate lock front to match bevel of door as shown (Fig. 5)

WARNING: LOCK-IN CAN OCCUR IF LATCH IS NOT PROPERLY INSTALLED

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