GML880 Series

Electromechanical Mortise Lock Installation Instructions

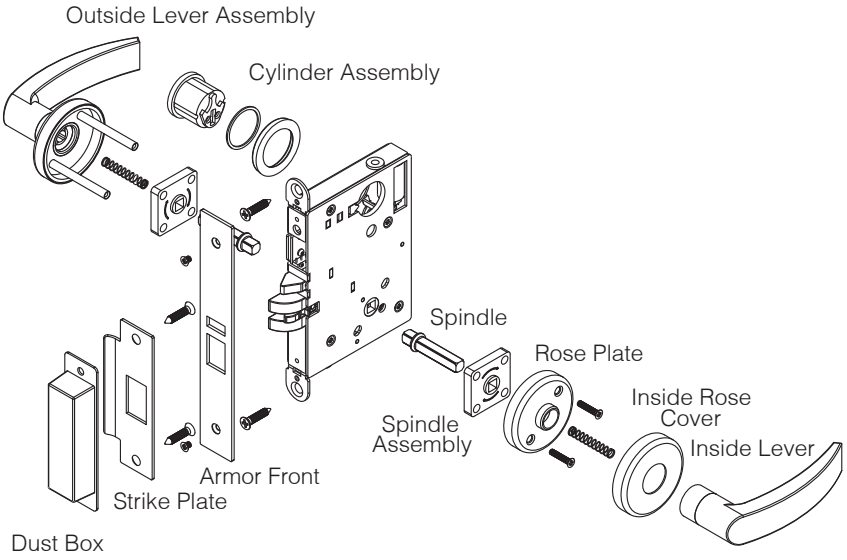
Features

- Field reversible latchbolt to suit left hand (LH) and right hand (RH) doors
- Field changeable fail-safe or fail-secure
- Monitoring options: Lock status, Lever status (inside/ outside lever rotation), Door status
- Inside/Outside lever rotation to unlock can be independently configured.

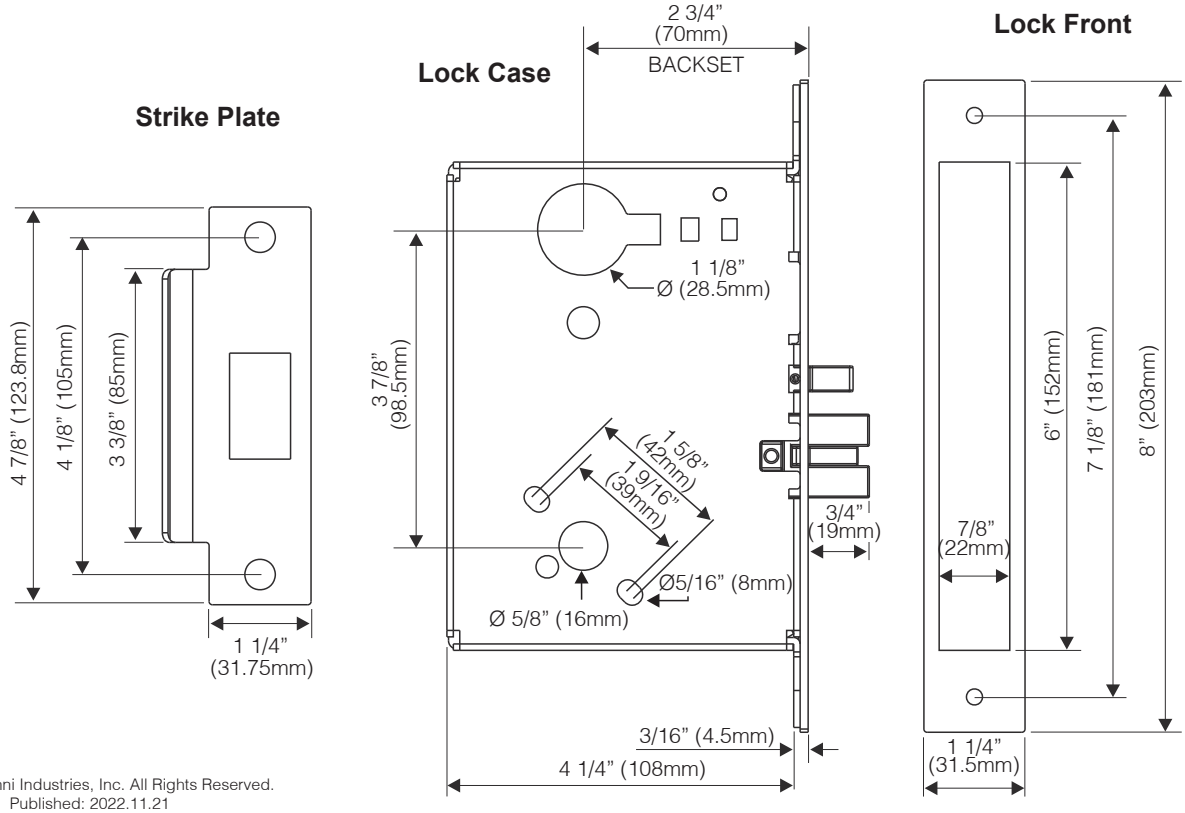
Specifications

- Operating Voltage: Dual voltage 12/24 VDC
- Current Draw: 600mA/12 VDC, 300mA/24 VDC
- Temperature: +14° to 120°F (-10° to +49°C)
- Humidity: 0 to 85% Non-condensing
- Backset: 2 3/4" (70mm)
- Finish: Brushed stainless steel (US32D)
- Endurance: 250, 000 cycles (Factory tested)

Installation Diagram



Dimensions



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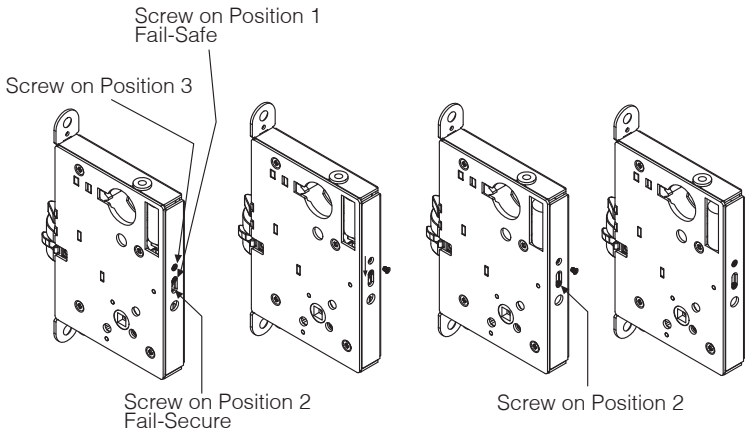
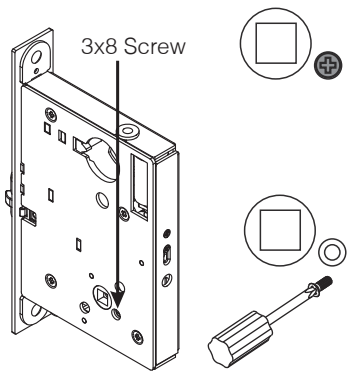
Changing Fail-Safe/Fail-Secure

Factory default is Fail-Safe
Remove screw on position 3. Loosen screw on position 1 and shift to position 2 and secure with the same screw. Complete by securing screw back in position 3 to change the lock to Fail-Secure.



Lever Control

Default Setting: Two 3 x 8 screws are installed on both sides of the lock.



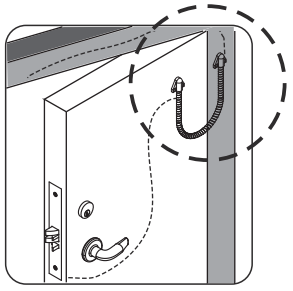
When the 3 x 8 screw is installed, turning the inside/outside lever retracts the latchbolt and opens the door.
Lever rotation sends a signal output.

When the 3 x 8 screw is removed, turning the side with the screw removed will not engage the latchbolt thus will not open the door. Lever rotation does not send a signal output. The connected access control device such as a card reader controls the opening of door.

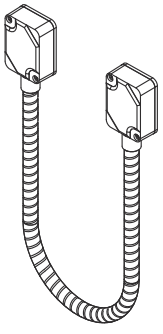
Note:
When the access control device is used to open the door, turning the inside/outside lever will engage the latchbolt to open the door upon valid entry.

Optional Electrical Accessories

The power transfer door loop protects the running wires from the door frame to door leaf.



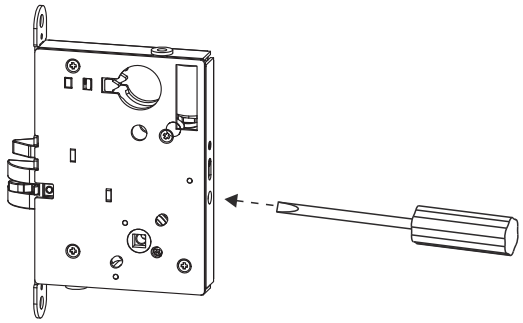
Armored Door Loop with End Caps



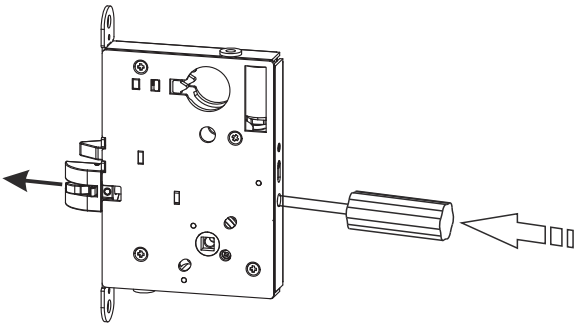
Armored Door Loop with Removable Cover

Changing Latchbolt Handing

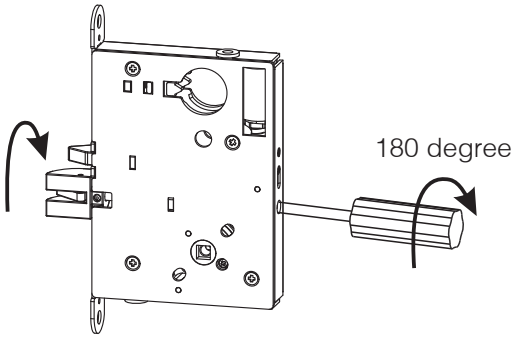
1. Insert the flathead screwdriver into the hole on the back of the lock case.



2. Push forward the flathead screwdriver, and the latchbolt will also be moved forward.

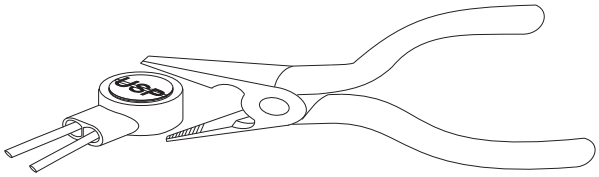


3. Rotate the flathead screwdriver 180 degrees to reverse the latchbolt to the opposite direction.
4. Remove the flathead screwdriver, and the latchbolt will be retracted back into the lock case.



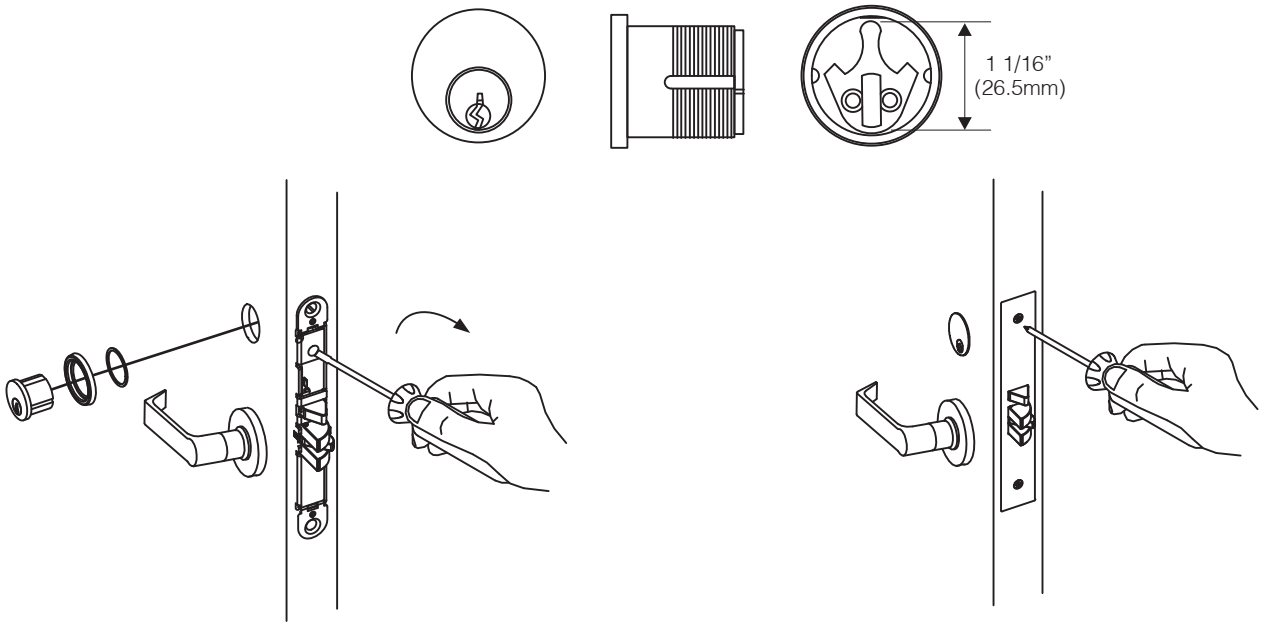
Crimp Connectors

Place the wire inside the connector and use pliers to press down on the head of the connector evenly.



Installing Cylinder and Armor Faceplate

1. Screw cylinder into threaded hole of lock case.
2. Tighten the screw against cylinder(s) by turning clockwise as shown.
3. Install faceplate onto lock case front and fasten with supplied screws.

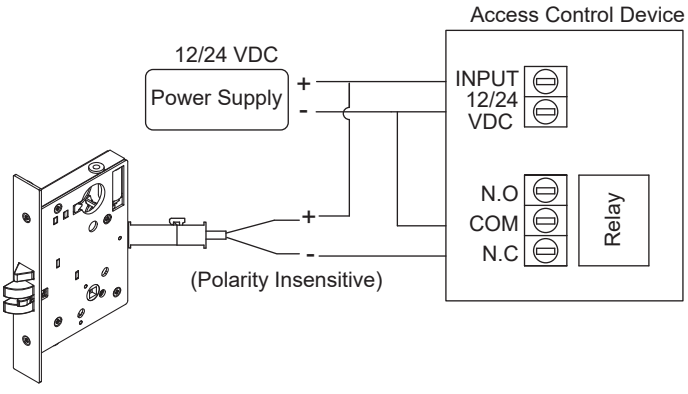


Wiring Diagram

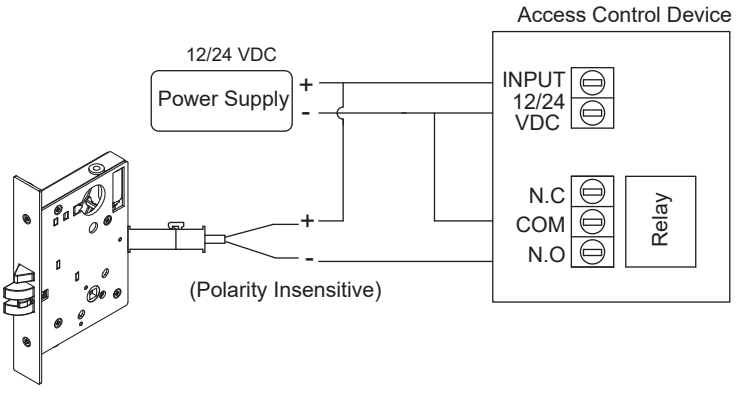
For **12VDC** operaiton, use the supplied electrical connector marked 12 VDC and connects its **red/black** wires to the control device.

For **24VDC** operation, use the supplied electrical connector marked 24 VDC and connects its **white/black** wires to the control device.

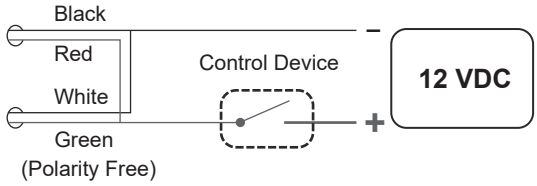
Typical Wiring for Fail-Safe Operation



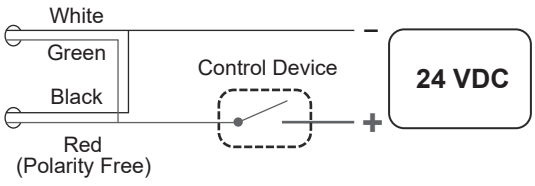
Typical Wiring for Fail-Secure Operation



Dual Voltage(12V)



Dual Voltage(24V)



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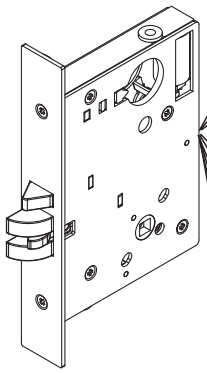
Wiring and Monitoring Instructions



Fail-Secure Mode
Blue: N.O.
Green: COM.
Yellow: N.C.

Fail-Safe Mode
Blue: N.C.
Green: COM.
Yellow: N.O.

Lock Status Monitoring
Lock status output indicates door locked and unlocked.
When power is not applied, connect the wires as shown for monitoring lock status.
Contact Rating: 1A/40VDC (resistive load)

Brown: N.C.
White: COM.
Grey: N.O.

Lever Status Monitoring
Lever status indicates whether pushing or rotating the lever will engage the latchbolt to retract and open the door.
When lever is in its normal state, connect the wires as shown for monitoring lever rotation.
Contact Rating: 1A/40VDC (resistive load)

Purple: N.C.
Pink: COM.
Orange:N.O.

Door Status Monitoring
Door status output indicates door open and closed.
When door is open, connect the wires as shown for monitoring door status.
Contact Rating: 1A/40VDC (resistive load)

GML880 Series Options

Models	Lock Monitor	Lever Monitor	Door Status Monitor	Lever Set (Lever included)
GML880-1224	—	—	—	—
GML880-1224-SET	—	—	—	●
GML880M-1224	●	●	—	—
GML880M-1224-SET	●	●	—	●
GML880MDS-1224	●	●	●	—
GML880MDS-1224-SET	●	●	●	●