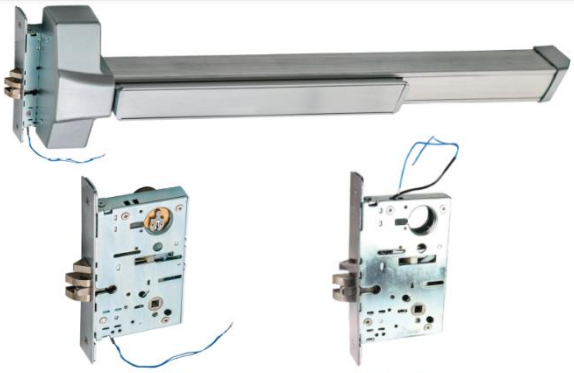
8000 Series

Electric mortise lock Exit Device



Solenoid Type
8820S - EU/EL
8820F - EU/EL

Motor Type
8820S - MEU/MEL
8820F - MEU/MEL

The Electric Mortise Lock Exit Device functions like a standard mortise lock but adds electronic control of the outside trim via a customer-supplied switching device (e.g., key switch, keypad, card reader, or console). The key cylinder provides mechanical override when electrically locked.

Features

- Fail Safe Control – Electrically Locked (EL)
  The outside lever is locked when power is applied and unlocked when power is removed. (Functions as a storeroom lock when energized.) The lockset will unlock in the event of a power failure. If this function is preferred, specify model no. 8820S-EL//MEL or 8820F-EL/MEL.

- Fail Secure Control – Electrically Unlocked (EU)
  The outside lever is unlocked when power is applied and locked when power is removed.
  The lockset will lock in the event of a power failure. If this function is preferred, specify model no. 8820S-EU/MEU or 8820F-EU/MEU.

Note: Some fire codes require Fail Safe operation for stairwell doors. Be sure to specify the correct operation for your application.

Accessories

The EM exit device requires the following accessories:
- An electric hinge or electrical power transfer device
- A key switch or digital keypad
- A power supply

These accessories must be sourced independently by the customer.

Certification

- UL/cUL listed, UL listed as:

  3-hour Fire Exit Hardware

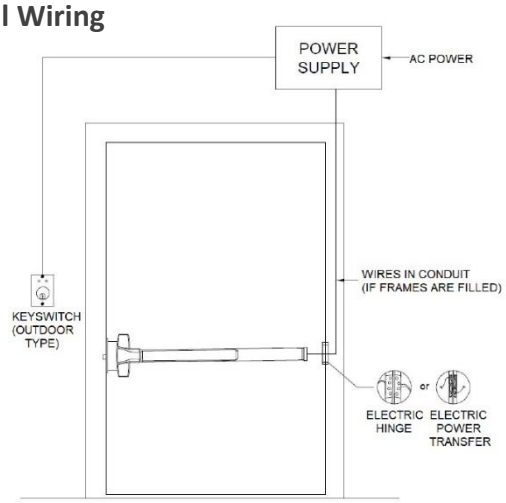
Specifications

Solenoid Type:
- Voltage: 12VDC or 24VDC ± 5%
  (Voltage must be specified when ordering)
- Current: 612mA @ 12VDC ; 330mA @ 24VDC
- Power Consumption: 8 Watts
- Solenoid: The solenoid used in this exit hardware is typically installed in internal, temperature-controlled environments (around 23°C / 73°F)

Motor Type
- Voltage: 12 - 24VDC (Operating range: 11V - 30V)
- Current: 250mA max inrush, 10mA max holding
- Leads: Non-polarized (can be connected without regard to polarity)
- Function Selection (via switch slider):
  - 🟡 : Fail Secure
  - 🟢 : Fail Safe

  Note: Power must be cycled after changing the switch slider setting to apply the new function.

Optional Functions
1. REX (Request to Exit)
   If you need to monitor whether the exit device is operated from the inside, use the REX option with security systems to monitor the push bar.
2. LM (Latch Monitor)
   If you need to monitor whether the latch is extended or retracted, use the LM option with security systems to detect the latch status and signal whether the door is open or closed.

Note: The REX or LM switch option is a signaling switch only. It should not be used to control a load.

Typical Wiring