

**DEVICES COVERED IN THIS DOCUMENT:**

LM – Latch Bolt Monitoring	DE – Delayed Egress
ELR – Electric Latch Retraction (not for use with Mortise Exit)	AI – Authorized Ingress
RX – Request to Exit (Field Installation Kit 2-649-5001)	RX2 – Dual Request to Exit
ED – Electric Dogging	ET – Electric Trim (4500 Series only)
EL or EU – Electrified Mortise Trim (ordered with 4501N Exit)	
MLR – Motorized Latch Retraction (Field Installation Kit 2-649-5007)	

**ELECTRICAL SPECIFICATIONS AND COLOR CODES FOR WIRES**

For use with all Hager monitored exit device modifications.

Request to Exit (RX) switch monitors egress by push bar activation of the exit device.

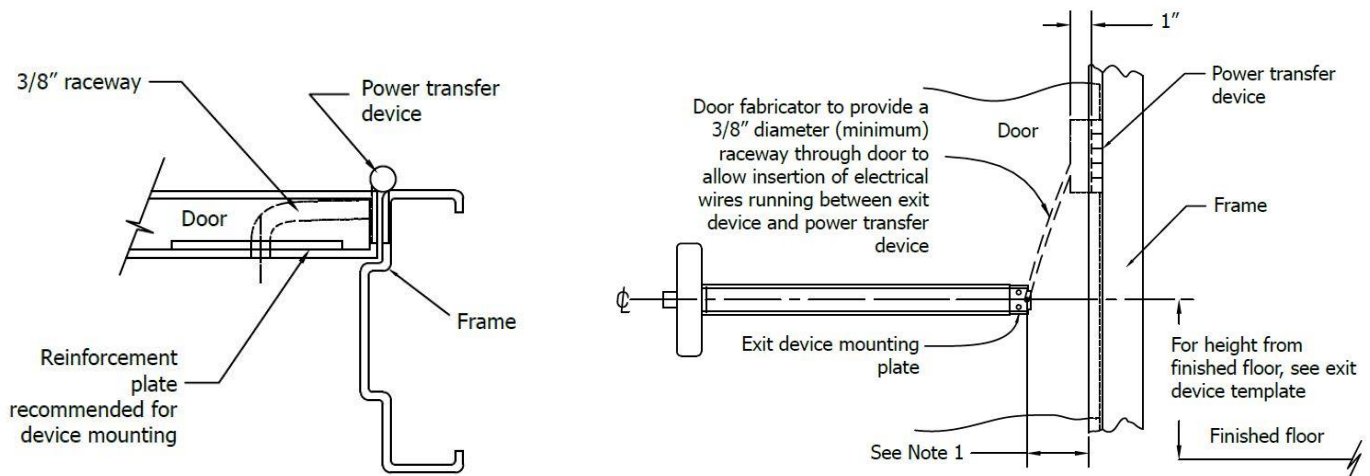
Latch Bolt Monitoring (LM) switch monitors the latch mechanism of the exit device.

Authorized Ingress (AI) switch monitors ingress by trim or key retraction of the exit device latch.

	<i>Request to Exit (RX)</i>	<i>Latch Bolt Monitoring (LM)</i>	<i>Authorized Ingress (AI)</i>
<b>Electrical Specification</b>	SPDT Monitoring Switch  Maximum Contact Rating: 3 AMP @125VAC 2 AMP @ 30VDC	SPDT Monitoring Switch  Maximum Contact Rating: 3 AMP @125VAC 2 AMP @ 30VDC	SPDT Monitoring Switch  Maximum Contact Rating: 3 AMP @125VAC 2 AMP @ 30VDC
<b>Color Code for wires</b>	Yellow Wire – Common Red Wire – Normally Open Grey Wire – Normally Closed Wire Gauge – #22 AWG	Black Wire – Common White Wire – Normally Open Red Wire – Normally Closed Wire Gauge – #22 AWG	Black Wire – Common Orange Wire – Normally Open Purple Wire – Normally Closed Wire Gauge – #22 AWG

**WIRE ROUTING AND DOOR PREP INSTRUCTIONS**

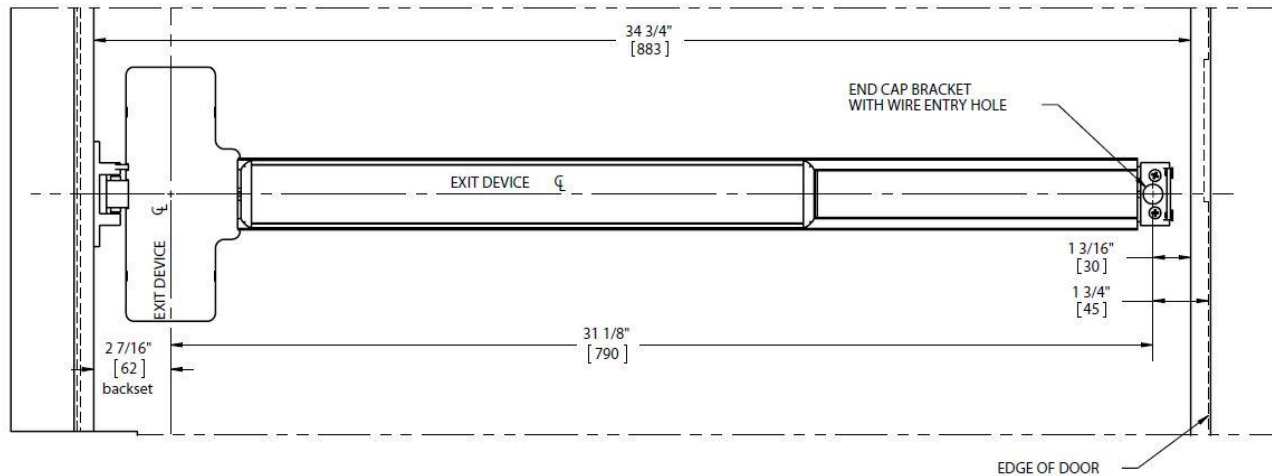
1. Follow exit device instructions and template to prepare door and frame for installation.
2. Door fabricator to provide a 3/8" diameter (minimum) raceway through door to allow insertion of electrical wires running between exit device and power transfer device (electric hinge).



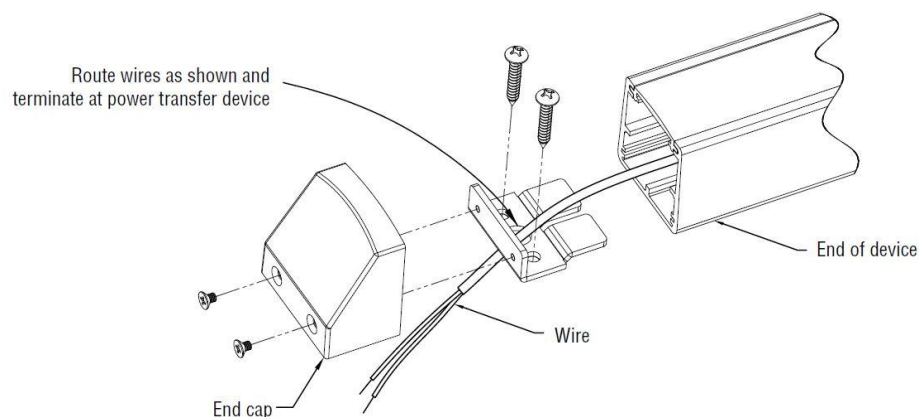
**Notes:**

1. Wire entry hole location on door (see example below):
  - a. This dimension depends on the backset and specific door application. Please see exit device instructions to determine backset and exit device location.
  - b. This dimension also depends on whether the device length has been field modified. Please note that the standard 3-foot exit device with ELR and Electric Dogging cannot be cut from the factory length. Standard 3 foot exit devices with MLR can be cut a maximum of two inches.

Example – Single 3-foot door with RIM device. Please refer to individual 4500/4600 Series Installation template for appropriate dimension.



2. Mount exit device end cap and wires:
  - a. Follow exit device instructions and template to install end cap bracket.
  - b. Route wires as shown in diagram below and terminate at power transfer device.



3. The EL, EU functions for the Mortise Exit Device are available for the Night Latch Version only (4501N). These electrifications are ordered with the device but are included in the Mortise Exit Lock Body.
4. The ELR, MLR, DE and ED all occupy the same space in the push bar. None of these can be done in conjunction with each other or with cylinder dogging or any Alarm Kit functions.