

# MR199-A / MR200

## WIRING INSTRUCTION



Phone: 833-2-PDQTEC | [www.pdqlocks.com](http://www.pdqlocks.com)

### General Information:

#### Fail Secure Power to Unlock (Default)

MR199-A: Outside trim is locked when power is OFF, and unlocked when power is ON.

MR200: Both trims are locked when power is OFF, and unlocked when power is ON.

#### Fail Safe Power to Lock

MR199-A: Outside trim is locked when power is ON, and unlocked when power is OFF.

MR200: Both trims are locked when power is ON, and unlocked when power is OFF.

To convert from fail secure to fail safe, cut the white wire loop. No need to cover the cut wires. To revert to fail secure, reconnect the white wires with a suitable wire nut for two 24AWG wires.

#### Key Function

When key cylinders are installed into locks, the latch bolt may be momentarily retracted with key even if the lockset is electrically locked.



### WIRING CONNECTIONS

#### Power:

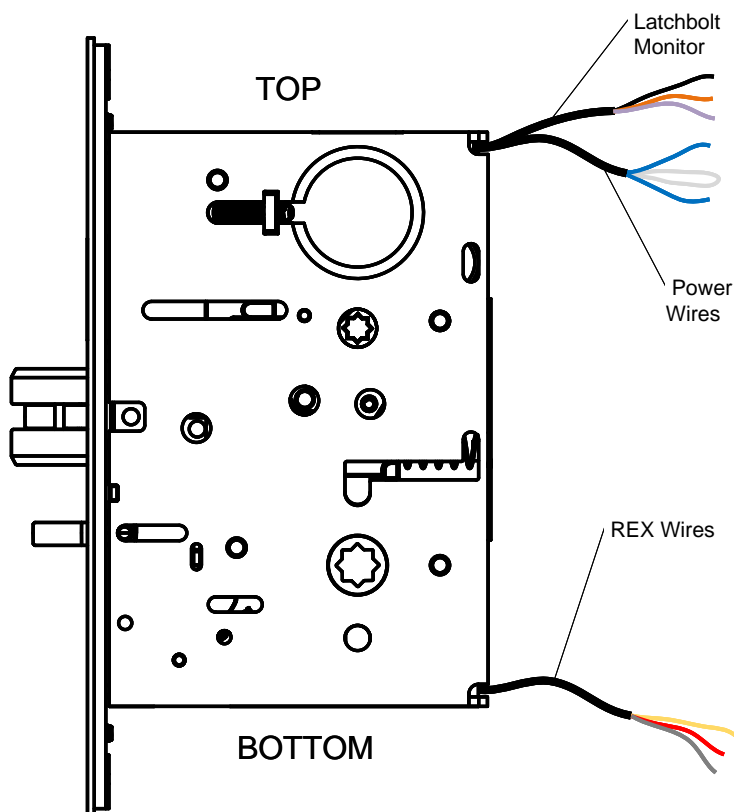
- Blue wires are power leads. Polarity is not important.
- White Loop – Cut for Fail Safe.

#### Latchbolt Monitor:

- Black Wire - Common
- Orange Wire – Normally Closed
- Violet Wire – Normally Open

#### REX:

- Yellow Wire - Common
- Gray Wire – Normally Open
- Red Wire – Normally Closed



# MR199-A / MR200 Wiring Instruction



Electrical Specifications - Keep operating voltage at +/- 10% of rated voltage.

Vin	Max. Initial Inrush Current	Standby Current
12 VAC	1.0A	12mA
24 VAC	1.0A	10mA
12 VDC	1.0A	3mA
24 VDC	1.0A	4mA

## Power Supply Requirements:

12-24 VDC @ 1AMP Initial Surge (1 Second), 5mA Standby  
12-24 VAC (60 Hz) @ 1AMP Initial Surge (1 Second), 15 mA Standby

**Important Note:** Power must be applied to lock for a minimum of 5 seconds. It may be necessary to adjust the default time delay on your system to accommodate. Device may not lock reliably if powered for less than 5 seconds.

## Latchbolt Monitor:

Latchbolt Monitor is a SPDT switch mounted inside the lock body. This switch monitors the position of the latchbolt. Normal latchbolt position is extended.

The latchbolt switch is mainly used as a dry contact monitoring switch.

Electrical Specifications: SPDT Mechanical Switch

<u>Voltage</u>	<u>Current</u>
125 VAC	3 AMPS
30 VDC	4 AMPS

## REX - Request to Exit:

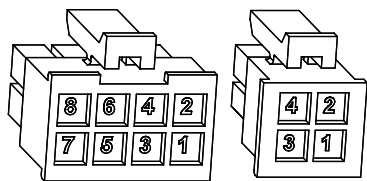
REX is an SPDT switch mounted inside the lock body. The REX switch monitors the activation of the inside trim.

REX switch is mainly used as a dry contact monitoring switch.

Electrical Specifications: SPDT Mechanical Switch

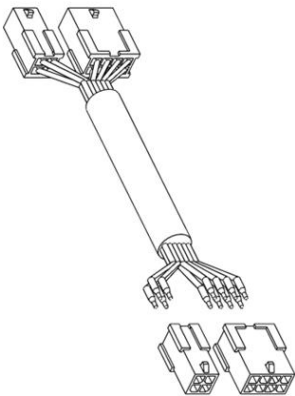
<u>Voltage</u>	<u>Current</u>
125 VAC	3 AMPS
30 VDC	4 AMPS

# MR199-A / MR200 ISMC Instructions



TEMINAL INSERTION ENDS SHOWN

MR199A Pinout		
8 Pin	Function	Color
Pin 1	Power	Yellow
Pin 2	Power	Yellow
Pin 3	REX (COM)	Yellow
Pin 4	REX (N/O)	Gray
Pin 5	REX (N/C)	Red
Pin 6	LM (COM)	Black
Pin 7	LM (N/O)	Violet
Pin 8	LM (N/C)	Orange



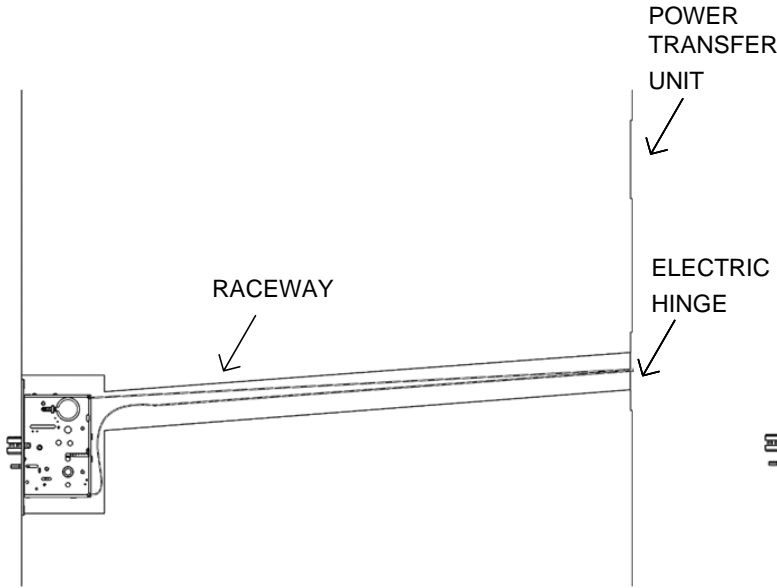
Housing Cable Pinout	
8 Pin	Color
Pin 1	Black
Pin 2	Red
Pin 3	White
Pin 4	Green
Pin 5	Orange
Pin 6	Blue
Pin 7	Brown
Pin 8	Yellow
4 Pin	Color
Pin 1	Violet
Pin 2	Gray
Pin 3	Pink
Pin 4	Tan

## DOOR PREPARATIONS

NOTES:

- 1. 1/2" CLEARANCE BETWEEN BACK OF MORTISE LOCK AND DOOR
- 2. 3/8" DIAMETER RACEWAY IS REQUIRED (FOR ISMC OPTION: 5/8" DIAMETER RACEWAY)
- 3. FOR ISMC: HARNESS IS **REQUIRED**

**STANDARD**



**ISMC OPTION**

