

MR199-A / MR200 WIRING INSTRUCTION



Phone: 833-2-PDQTEC | 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.

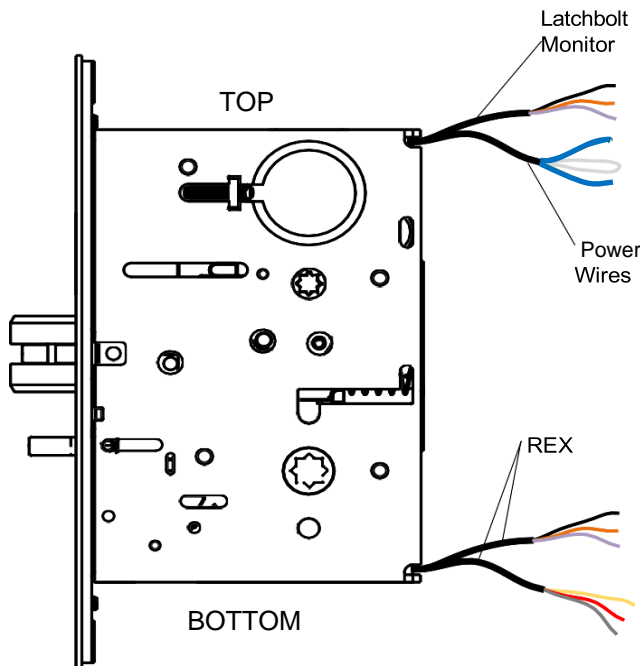
Fail Safe Power to Lock

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.



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

Vin	Max. Initial Inrush Current	Standby Current
12 – 24 VDC	1.0A	5mA
12 – 24 VAC	1.0A	15mA

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. Device may not lock reliably if powered for less than 5 seconds.

WIRING CONNECTIONS

WARNING – Lock may have two sets of B/O/V colors - REX wires exit bottom of lock case.

Power:

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

Latchbolt Monitor:

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

REX:

RH/RHR Handing:

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

LH/LHR Handing:

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

SEE REVERSE FOR OPTIONAL ISMC WIRING

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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 primarily used as a dry contact monitoring switch. Electrical Specifications: SPDT Mechanical Switch

<u>Voltage</u>	<u>Current</u>
125 VAC	3 A
30 VDC	2 A

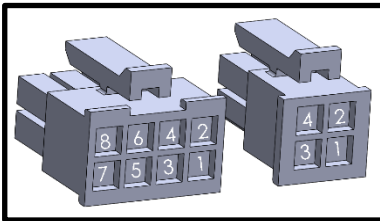
REX - Request to Exit:

REX is a pair of SPDT switches mounted inside the lock body. The REX switches monitor the activation of the inside trim.

REX switches are primarily used as a dry contact monitoring switch. Electrical Specifications: SPDT Mechanical Switch

<u>Voltage</u>	<u>Current</u>
125 VAC	3 A
30 VDC	2 A

ISM INFORMATION FOR PDQ MR 199-A / MR 200 ELECTRIFIED MORTISE LOCK

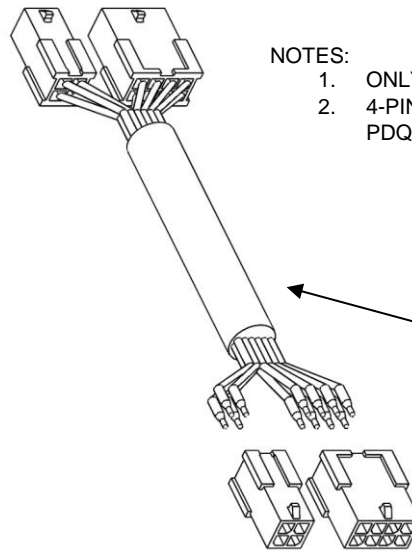


TERMINAL INSERTION END IS SHOWN



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



- NOTES:
1. ONLY PIN TO TERMINAL AS NEEDED
 2. 4-PIN HOUSING IS REQUIRED FOR PDQ MR 199-A/200

HOUSING AND HARNESS SUPPLIED BY OTHERS

FOR ASSISTANCE, CONTACT PDQ TECHNICAL SUPPORT AT 1-800-441-9692

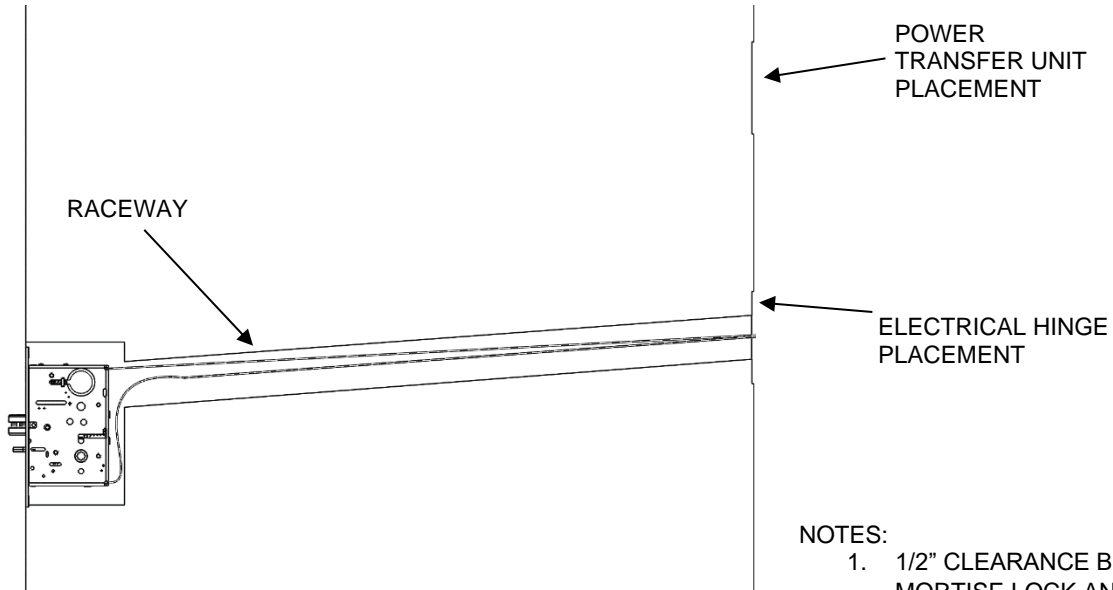
DOOR PREPARATIONS FOR PDQ MR 199-A / MR 200



Follow all mortise lock templates and instructions for installation specifications

Door raceway preparations are required for electrical component wiring from mortise lock to power transfer unit / electrical hinge. See below diagram for specifications on raceway

STANDARD



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, SUPPLIED BY OTHERS

ISMC OPTION

