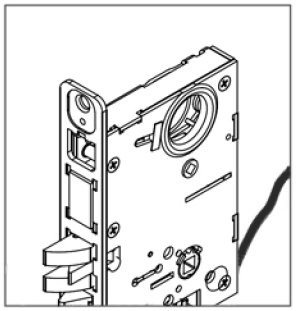
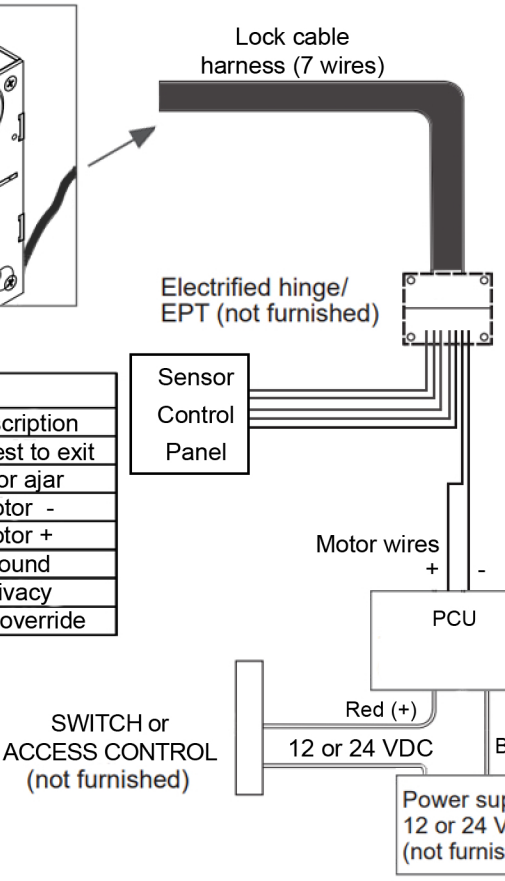
Wiring Instructions for PCU (R4 Mortise)





Pin Chart		
Pin#	Color	Description
1	White	Request to exit
2	Yellow	Door ajar
3	Grey	Motor -
4	Red	Motor +
5	Black	Ground
6	Blue	Privacy
7	Green	Key override

Electrical Requirements:
The Power Converter Unit (PCU) is powered by DC power only.

Do not use AC power.

- Voltage: 12 or 24 V DC (maximum 30 V, minimum 10 V)
- Peak current: 1.2 amps
- Holding current: 0.010 amps
- Operating temperature: 32°F to 120°F (0°C to 49°C)

Voltage	AWG	14	16	18	20
	12 V	400’	250’	150’	75’
	24 V	400’	250’	150’	75’

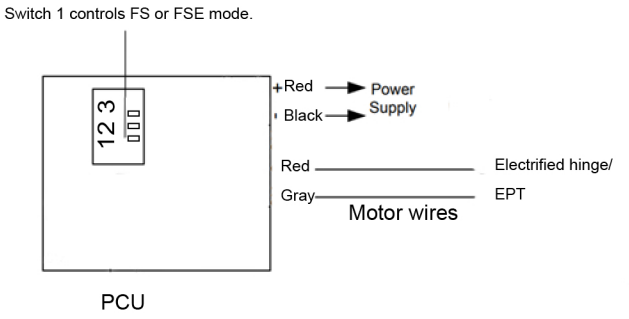
Note: The Red (+) and Black (-) terminals must match the polarity of the power supply. The distance noted in the table above is PCU to power supply. **PCU to be within 20’ of locking device**

Voltage	AWG	22
	12 V	20’
	24 V	20’

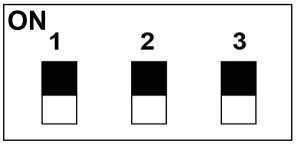
Select the appropriate mode for the installation using the mode select switch located on the PCU switch 1.

FS, electrically locked (fail safe):
Outside knob/lever or both outside and inside knobs/ levers (depending on function) will lock when power is applied. In the event of power failure, the opening will be unlocked.

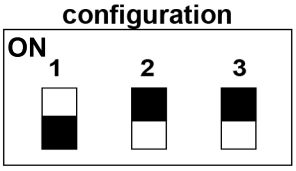
FSE, electrically unlocked (fail secure):
Outside knob/lever or both outside and inside knobs/ levers (depending on function) will unlock when power is applied. In the event of power failure, the opening will be locked.



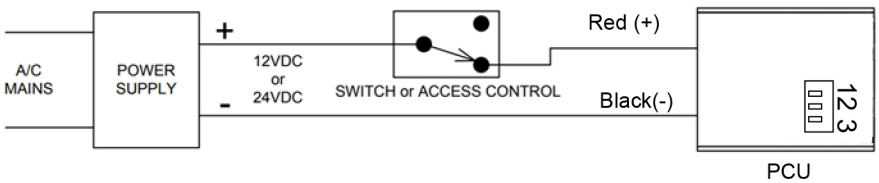
Fail safe configuration



Fail secure configuration



Note: Dip switch 1 OFF for fail safe configuration and ON for fail secure



Note: When mode is switched (from FS to FSE or FSE to FS) the lock requires a complete lock/unlock power cycle to synchronize to the proper mode.