

# Wiring Instructions MC1 by Draper

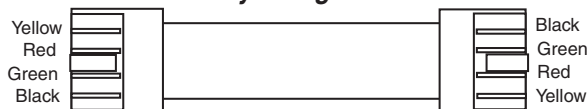
## Please Note

- ① Make sure power is disconnected before installing controls.
- ② Five Volt power from the eye jack is limited to one eye. No other accessories may be powered by this unit. Other accessories may be connected to this unit if they are powered by some other means.
- ③ MC1 is a line voltage control, designed to operate one motor. Activation by Low Voltage input commands.
- ④ The MC1 receiver has a built in fuse that provides protection from electrical shorts and overload.
- ⑤ Avoid static discharge, especially to screw terminals and eye jack.

## Please Note:

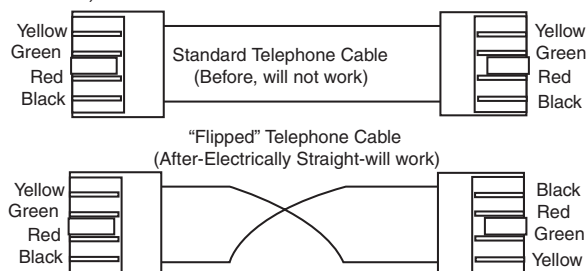
All input devices (low voltage LED switches, IR eye, RF receiver) which connect to the Eye jack must be connected up using **electrically straight** 4-conductor modular cable (see diagram below).

### Electrically Straight Data Cable



### Using Telephone Cable

If you use standard telephone cable, you must first remove one connector, turn it over and re-attach, to ensure that the cable is electrically straight (see diagram below).



All connection wires must conform to the motor manufacturer's recommendation and prevailing electrical codes. The switch and control system wires should be at least 24 AWG and no larger than 18 AWG.

## Notes on Cable Lengths:

You can have a total of approximately 100 feet of cable (this includes ALL cables connected to ALL Eye and Aux ports) per MC1, up to a maximum of 1000 feet. However, the RF Receiver can drive up to 1000 feet of cable.

## Electrical Specifications—MC1

### Input:

DATA: 5V AC (through "Eye" port)  
Low Voltage/Serial: Dry Contact—0v AC

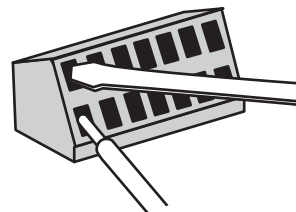
### Output:

**115V AC version:** Rated at 3.8 Amps, 1/8th HP, fuse should be 4 Amp 250V 5x20mm fast or slow blow.

## Spring-Loaded Terminals

When running wires to the spring-loaded terminals on the MC1, use the following steps:

- ① Strip outer wire sheathing back 1", then strip insulation of individual wires back 3/8".
- ② Place screwdriver into the top slot to open the spring-loaded terminal.
- ③ Slide wire into terminal connection point.
- ④ Remove screwdriver. Wire is now locked into place.



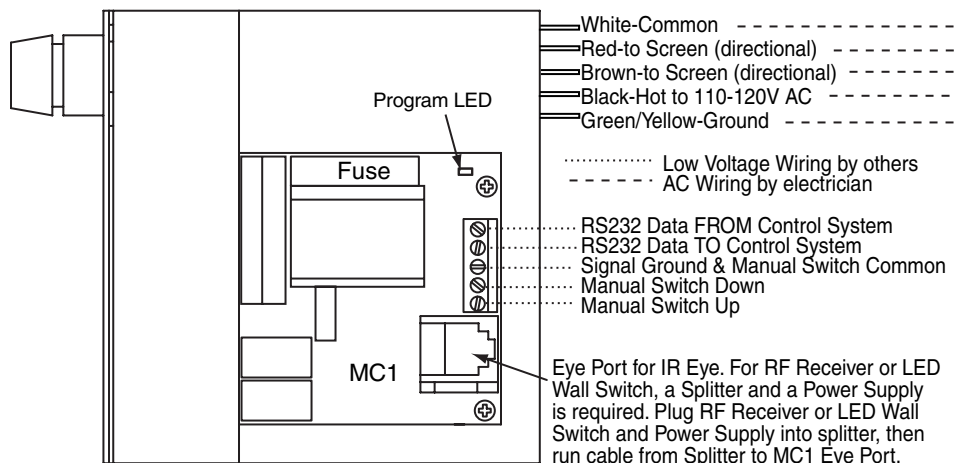
## Electrical Connections

Screens, AeroLifts and Micro Projector Lifts operate on 110-120V, 60 Hz. AC current.

Screens, AeroLifts and Micro Projector Lifts are shipped with internal wiring complete and control switch(es) fully boxed. Wire to connect screen to switch(es) and switch(es) to power supply should be furnished by installer.

Connections should be made in accordance with approved wiring diagrams, and wiring should comply with national and local electrical codes.

**All operating switches should be "off" before power is connected.**



# DRAPER

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Form MC1\_Wiring05

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See separate Serial Communication-RS232 Instruction sheet for enabling RS232 with the MC1.

If you encounter any difficulties installing/wiring your MC1, call your dealer or Draper, Inc., Spiceland, Ind., (765) 987-7999; fax (765) 987-7142; or e-mail draper@draperinc.com.