USERS GUIDE **MC-10**
TIME DELAY MODULE

PRODUCT DESCRIPTION

The MC-10 module (PN: 10MC10) is an adjustable time delay module for use with floor mats, push plates, pull cords, etc. The purpose of this module is to provide an adjustable time delay from 0 to 99 seconds for activation devices that do not have an internal time delay of their own. The MC-10 is extremely reliable, simple to install, and maintains a high degree of accuracy. An LED on the front of the module makes it very easy to verify operation.

Power must be continuous to the MC-10 - the time delay function will begin when the two blue wires have made momentary contact with each other through an alternate set of normally open dry contacts. At that time, the state of output from the MC-10 will change and will remain changed until the preset time delay adjustment has expired. The change of output will be verifiable through the illumination of the red LED on the front of the module. Anytime the MC-10 has been activated the red LED will illuminate. The LED goes out when the time delay has expired. The unit may be re-activated at any point during the time delay countdown and will simply reset the time delay each time it is re-activated through the blue wires. An additional feature of the MC-10 is the ability to provide a dry or wet output depending on the location of the jumpers.

TECHNICAL SPECIFICATIONS

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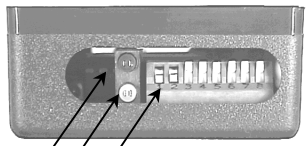
Power Supply	12-24 Volts AC / 15-24 Volts DC
Operating Frequency	4 MHz (Microprocessor)
Power Consumption	10 mA at rest, 50 mA Max.
Output	SPDT Relay
Max. Voltage - Relay Contact	60V DC, 120V AC
Max. Current - Relay Contacts	5A DC, 0.5A AC

COMPONENT ID



Dipswitches
Green LED – Not Used
Red LED – Lockout Time

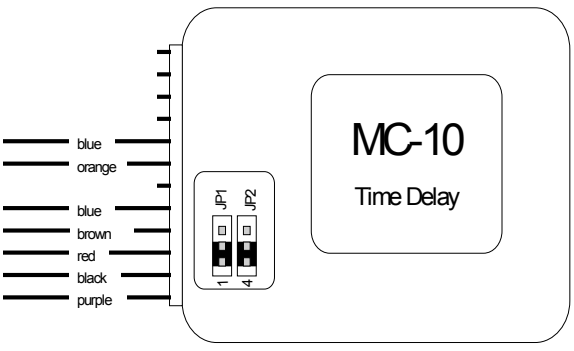
SAFETY PRECAUTIONS

- Shut off all power going to the header before attempting any wiring procedures.
- Maintain a clean & safe environment when working in public areas.
- Constantly be aware of pedestrian traffic around the door area.
- Always stop pedestrian traffic through the doorway when performing tests that may result in unexpected reactions by the door.
- Always check placement of all wiring before powering up to insure that moving door parts will not catch any wires and cause damage to equipment.
- Ensure compliance with all applicable safety standards (i.e. ANSI A156.10) upon completion of installation.

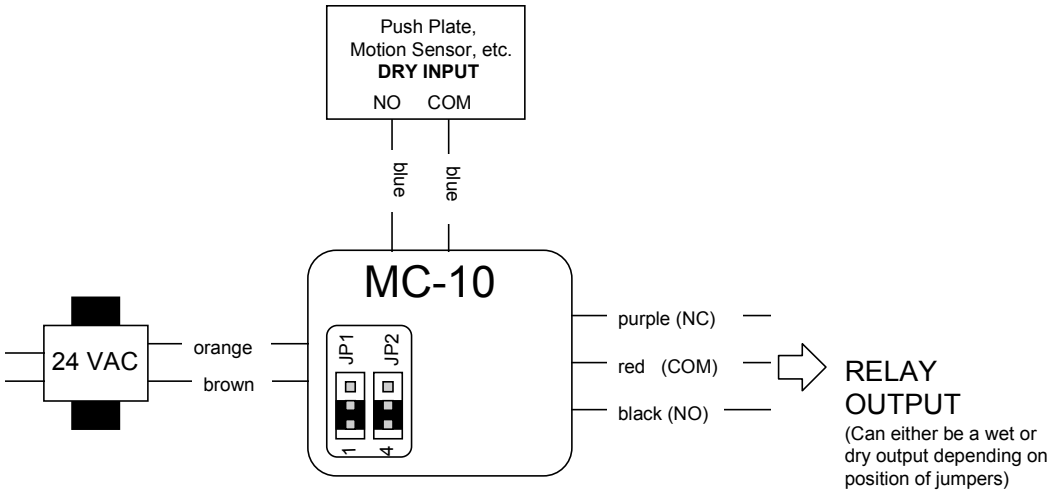
ELECTRICAL INSTALLATION

CAUTION: Unused wires must be insulated to prevent damage to the unit. No voltage should be applied to the blue wires or damage to the unit will result.

WIRE CONNECTIONS	
Orange	Power input / 12-24 VAC or 15-24 VDC
Brown	Power input / 12-24 VAC or 15-24 VDC
Blue	Input contact COM from activation device
Blue	Input contact NO from activation device
Purple	Relay 1 NC contact
Red	Relay 1 COM contact
Black	Relay 1 NO contact



ELECTRICAL INSTALLATION Cont.

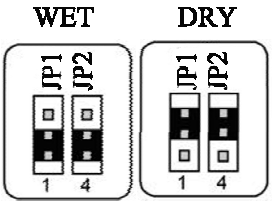


JUMPER SETTINGS

JUMPERS

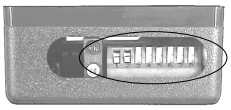
The jumpers on the MC-10 can be configured for a dry relay output or a wet relay. If configured for a wet relay output, the output voltage on the relay will equal the input voltage on the orange and brown wire of the module. Voltage and type (AC or DC) will match. **If the jumpers are placed diagonal from each other the MC-10 module will not function correctly.**

- ❑ Both jumpers on the left and middle pins (1&2 and 4&5) = DRY OUTPUT
- ❑ Both jumpers on the right and middle pins (2&3 and 5&6) = WET OUTPUT



DIPSWITCH SETTINGS

1. Dipswitches are used to set the amount of relay hold time required. The total hold time is the sum total of the dipswitches that are in the ON position. For easy reference, use the timetables below. Dipswitches 1 through 4 are single units, 5 through 8 are tens units.



Example:

If a time delay of 27 seconds is desired, the dip switches would be the following:

Time Delay (sec)	dip 1 *1 sec*	dip 2 *2 sec*	dip 3 *4 sec*	dip 4 *8 sec*
0	off	off	off	off
1	on	off	off	off
2	off	on	off	off
3	on	on	off	off
4	off	off	on	off
5	on	off	on	off
6	off	on	on	off
7	on	on	on	off
8	off	off	off	on
9	on	off	off	on

Time Delay (sec)	dip 5 *10 sec*	dip 6 *20 sec*	dip 7 *40 sec*	dip 8 *80 sec*
0	off	off	off	off
10	on	off	off	off
20	off	on	off	off
30	on	on	off	off
40	off	off	on	off
50	on	off	on	off
60	off	on	on	off
70	on	on	on	off
80	off	off	off	on
90	on	off	off	on

Units dip switches set to 7 = 1 on, 2 on, 3 on, 4 off
Tens dip switches set to 20 = 5 off, 6 on, 6 off, 8 off

COMPANY CONTACT

If after troubleshooting a problem, a satisfactory solution cannot be achieved, please call B.E.A., Inc. for further assistance during **Eastern Standard Time at 1-800-523-2462 from 8am - 5pm**.
For after-hours, call East Coast: 1-866-836-1863 or 1-800-407-4545 / Mid-West: 1-888-308-8843 / West Coast: 1-888-419-2564. **DO NOT leave any problem unresolved.** If you must wait for the following workday to call B.E.A., leave the door inoperable until satisfactory repairs can be made.
NEVER sacrifice the safe operation of the automatic door or gate for an incomplete solution.
Web: www.beasensors.com