

Photoelectric Sensors

MULTIFUNCTION TIMER/LOGIC CARD

FOR A COMPLETE CONTROL

- Multifunction Time/logic Card
- Photoelectric Sensor Head
- Reflector (Retro and Polar Scans)

CHOICE OF:

- Plug-in base
- Plug-in Receptacle
- Mini Base
- Relay Base



Multifunction Logic Cards

Model No.	Description
MPA1HD	0.15 to 15 sec. time adjustment
MPA133HD	0.001 to 0.1 sec. adjustment
MPA155HD	1 to 30 sec. adjustment
MPA188HD	0.01 to 1 sec. adjustment

Plug-in timer/logic cards easily convert any ON/OFF MP Series photoelectric into a multifunction control. Seven DIP switches located on the timer card provide the user with a choice of seven delay functions including dual delay and motion detection. In addition, light operated or dark operated sensing can be selected by a switch located on the photoelectric sensor head.

TIME DELAY OPTIONS

The timer/logic cards can be set up to modify the sensor's head output signal. For instance, in thru-scan or reflective scan (L.O. mode), if the logic card is set for OFF delay the sensor does not immediately turn off its output circuit after the beam goes dark or is blocked. Instead it waits until the beam has been dark for a preset time. If set for ON delay, the sensor waits for a preset time to recognize that the beam is complete.

Each timer/logic card has seven DIP switches to select ON delay, OFF delay, or both. The delays range as shown in the Specifications and Order Guide. The cards also offer totally independent range selection and adjustment for ON and OFF delays.

ONE SHOT OPTIONS

In addition, the timer/logic card offers four modes of operation: 1-shot, a delayed 1-shot, 1-shot drop, and a delayed 1-shot drop. The cards can be adjusted for both the width of the 1-shot pulse and the length of delay before the 1-shot is fired.

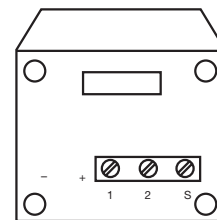
TIMING OPTION SETTINGS

Prior to inserting a multifunction timer card into the photoelectric sensor head, you must properly set DIP switches located on the card. You must also set the L.O./D.O. switch located in the photoelectric sensor head.

TIMING ADJUSTMENTS

On the top of the MP Series photoelectric sensor head is an access cover. When opened with a small blade screwdriver, the multi-turn timer adjustment screws, labeled "1" and "2," are exposed.

Clockwise rotation increases the time range(s). If a single delay option is selected, the other timer adjustment is automatically set to zero. When the sensor head has been set to the desired timing range(s), snap the access cover shut to provide proper head sealing.



MULTI-FUNCTION TIMER/LOGIC CARD

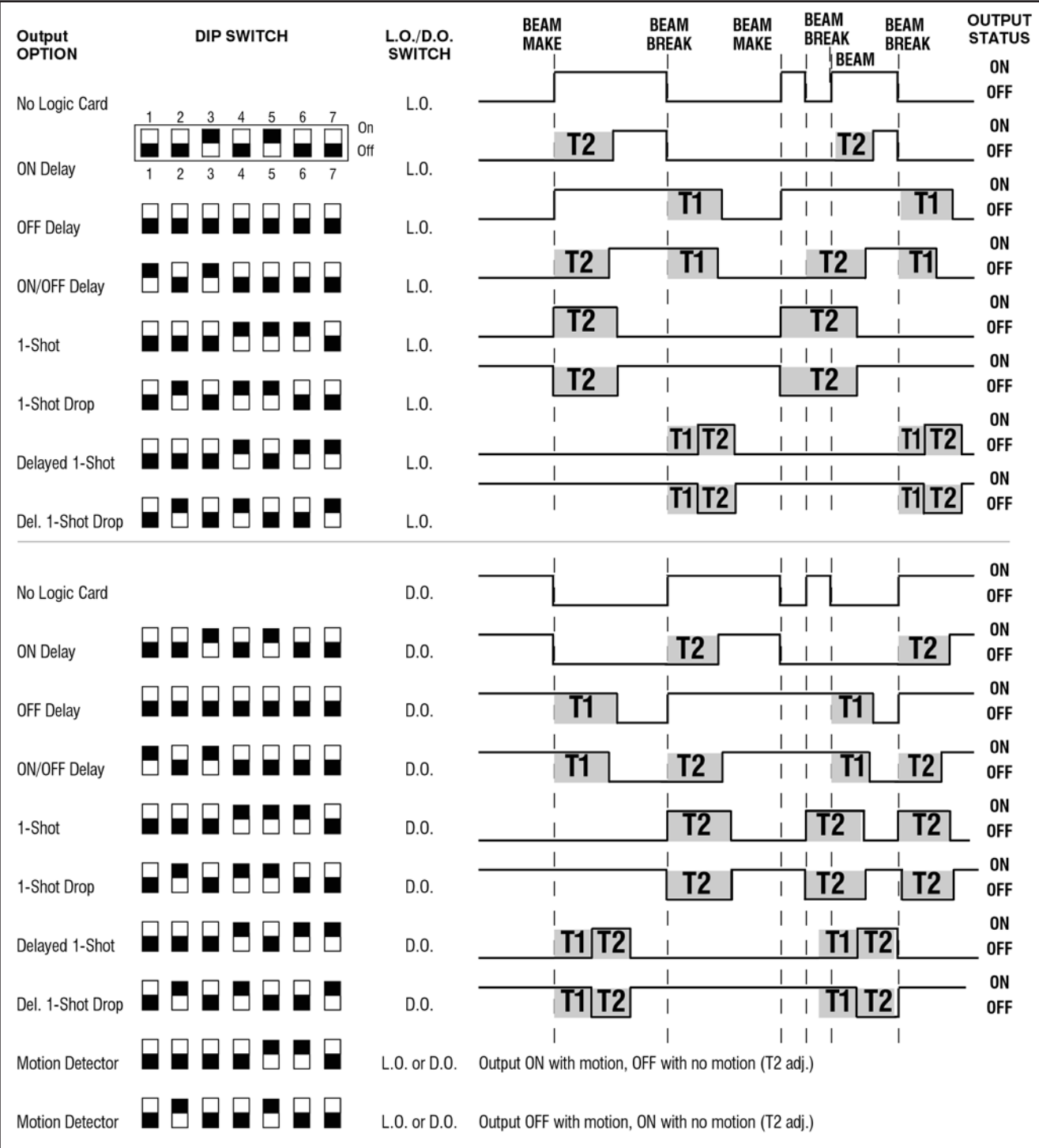
Timing Options Settings

DIP switches on the card are labeled 1-7, with OFF position toward the labels. Refer to the timing chart below for DIP switch settings and their results for a retro-reflective or thru-beam setup.

- Timing/Adjustment
- T1** denotes screw adjustment 1
- T2** denotes screw adjustment 2



DIP SWITCHES 1-7



Photoelectric MP Series Modular