

**MARTEC ACCESS PRODUCTS, INC.**  
**DOOR-GUARD™**  
**UNIVERSAL REMOTE SENSING SYSTEM**  
**MODEL MK8300**

Martec Universal kit was designed to allow the use of Martec's remote sensing photoelectric system with residential and industrial/commercial openers which have direct input to their obstruction sensing systems. This device when properly connected to the opener will provide the added feature of a non-contact reversing device. It will also provide a positive indication of photo system failure mode by causing a closing door to open and preventing an open door from closing. Its operation in conjunction with openers will depend on the basic operating parameters and internal circuitry of that specific system and consequently should be approached cautiously and with careful testing upon completion.

Installation Instructions

The new Door-Guard™ kit is composed of 2 major elements, an interface module and the photoelectric modules (including brackets). To install your new system, first find a suitable location to mount your interface module, preferable in close proximity to the rear of your garage door opener powerhead (see diagram #1). To mount your interface module, squeeze both sides of the cover and remove. Before you mount your interface you must decide the type of relay output you will require and use the W1 or W2 switch located and marked on the circuit board according to the following (see diagram #3);

1. Relay normally open - held closed when beam is working normally - - - push switch W1 on.
2. Relay normally closed - held open when beam is working normally - - - push switch W2 on.

**Do not push both W1 and W2 on at same time. Unit will NOT function.**

Now mount your interface module using the screw holes provided in the module base and replace the cover.

Wiring

Run your wires from the interface to your garage door opener and from your interface to each side of your garage door as per the wiring chart in Diagrams #1 and #2. Connect all wires as indicated. For a typical overhead sectional door mount your photoelectric cells on each side of the garage door (inside) as per diagram #1. Recheck all your electrical connections and ensure your wiring is secure and not interfering with any operating part of your garage door opener or garage door. Plug in your garage door opener. Line up your receiver with your sending unit until the red L.E.D. light on your receiver remains lit.

For other type doors and hardware (one piece, jamb, etc.) select a mounting location which will provide the maximum entrapment/protection during the closing travel with emphasis on the last 6 inches.

### Test Procedure

Place an object 6" x 12" on the floor progressively one foot from the left side of the door; center of door and one foot from the right side of the door. This must prevent an open door from closing as well as causing a closing door to open. If it doesn't the photoelectric system must be adjusted lower and test repeated until the door responds properly to the 6" object. Failure of this obstruction sensing beam may cause severe injury or death. If your system does not function as described in the test procedure, recheck all wiring very carefully and then retest. This completes your installation.

### **IMPORTANT: TEST DOOR OPENER MONTHLY.**

Open door must not close and closing door must open if photoelectric system is obstructed by 6" x 12" object, using test procedure described above.

Martec TK 8300

DIAGRAM #1

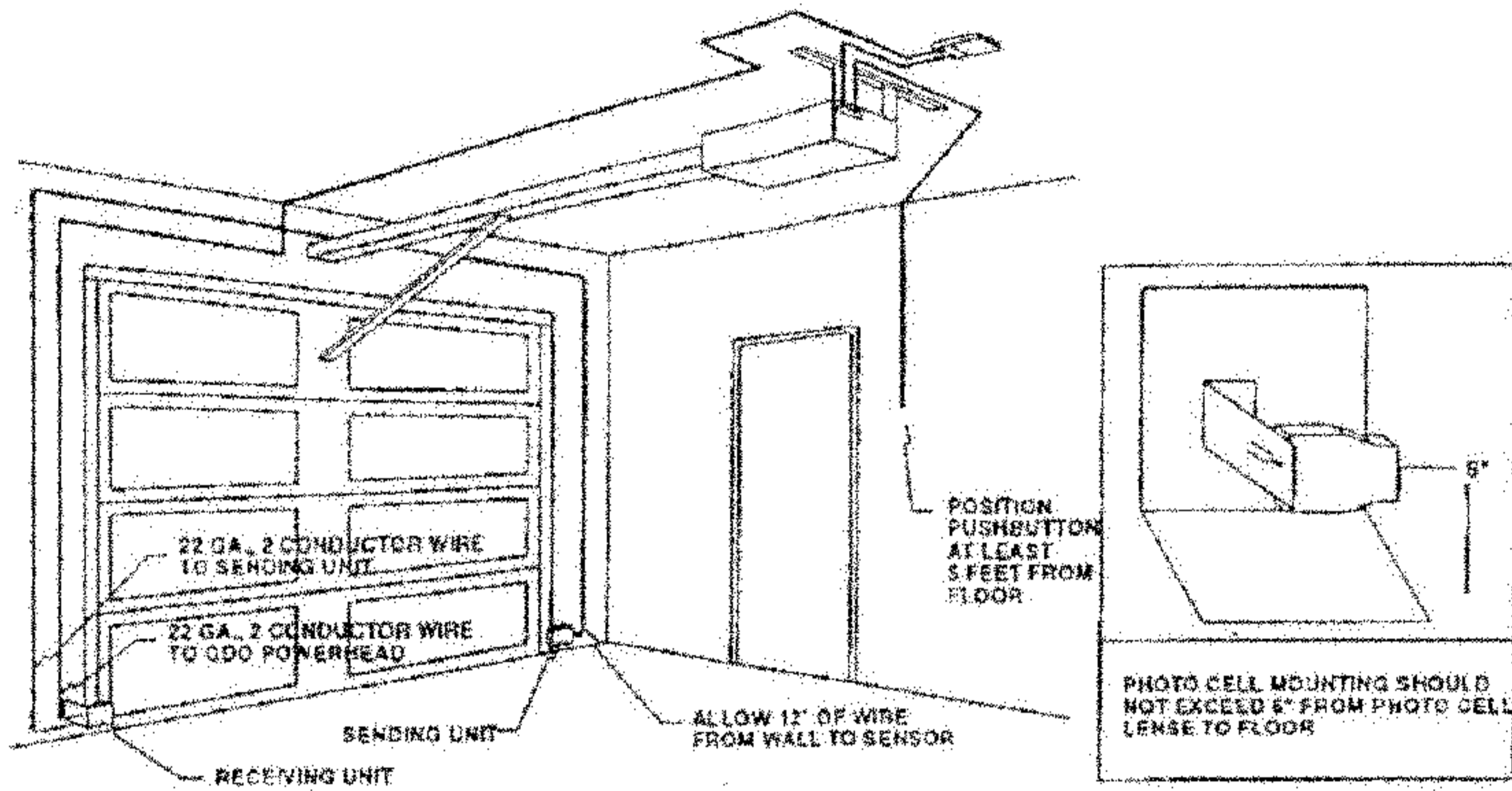


DIAGRAM #2

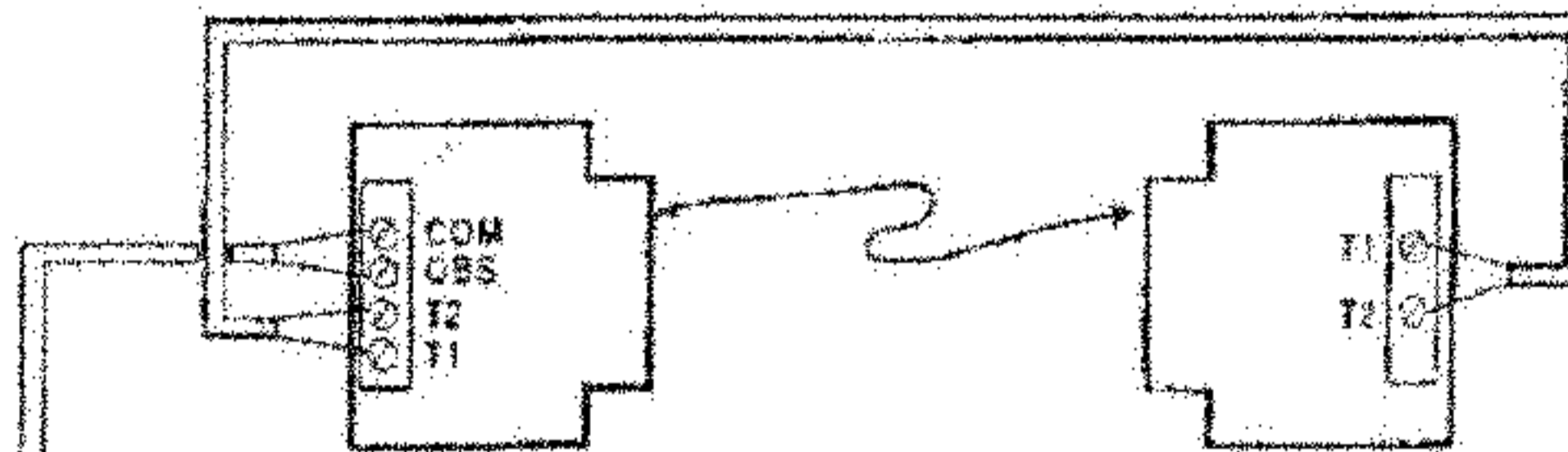
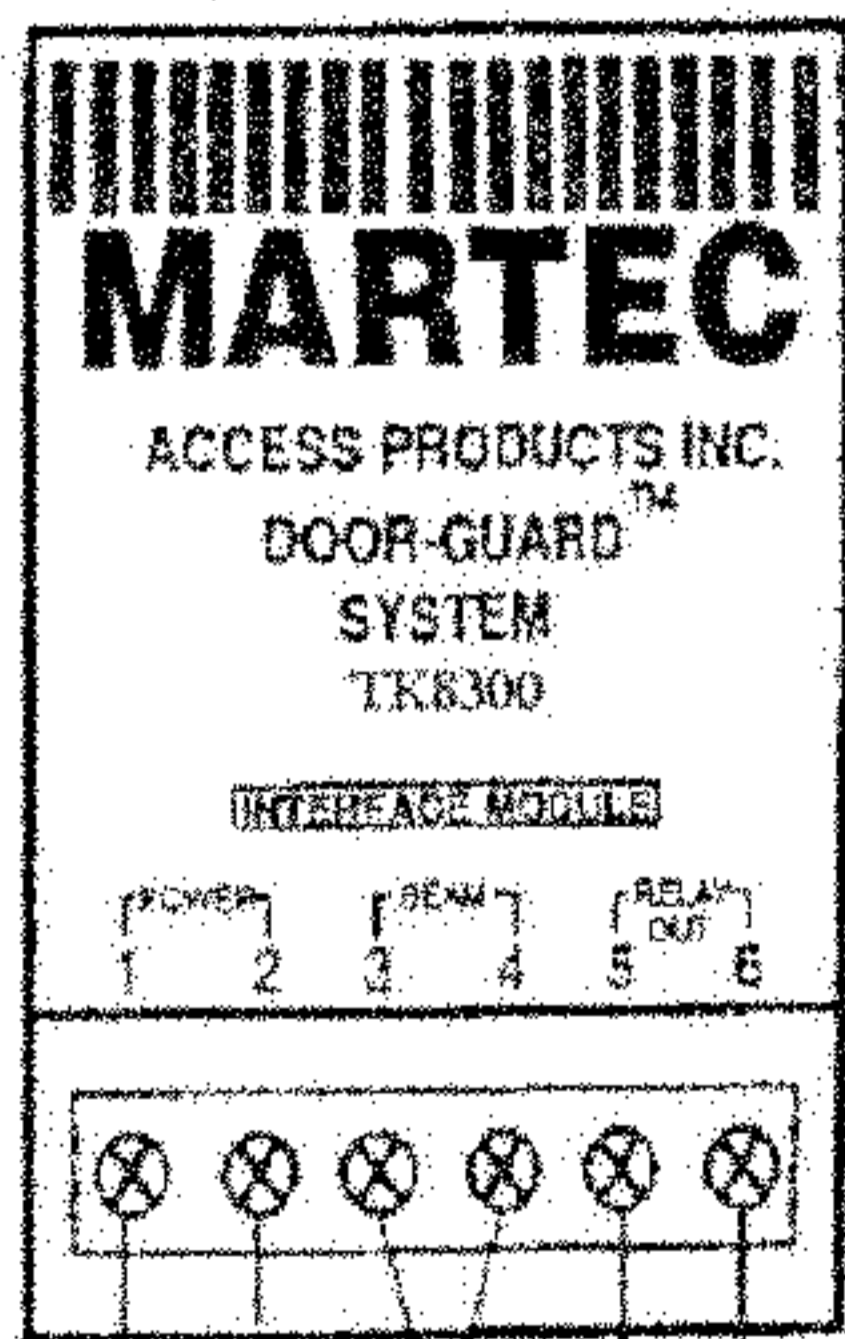


DIAGRAM #3



4-24 V COM RELAY OUTPUT

Questions? Call:  
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Domino Engineering  
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