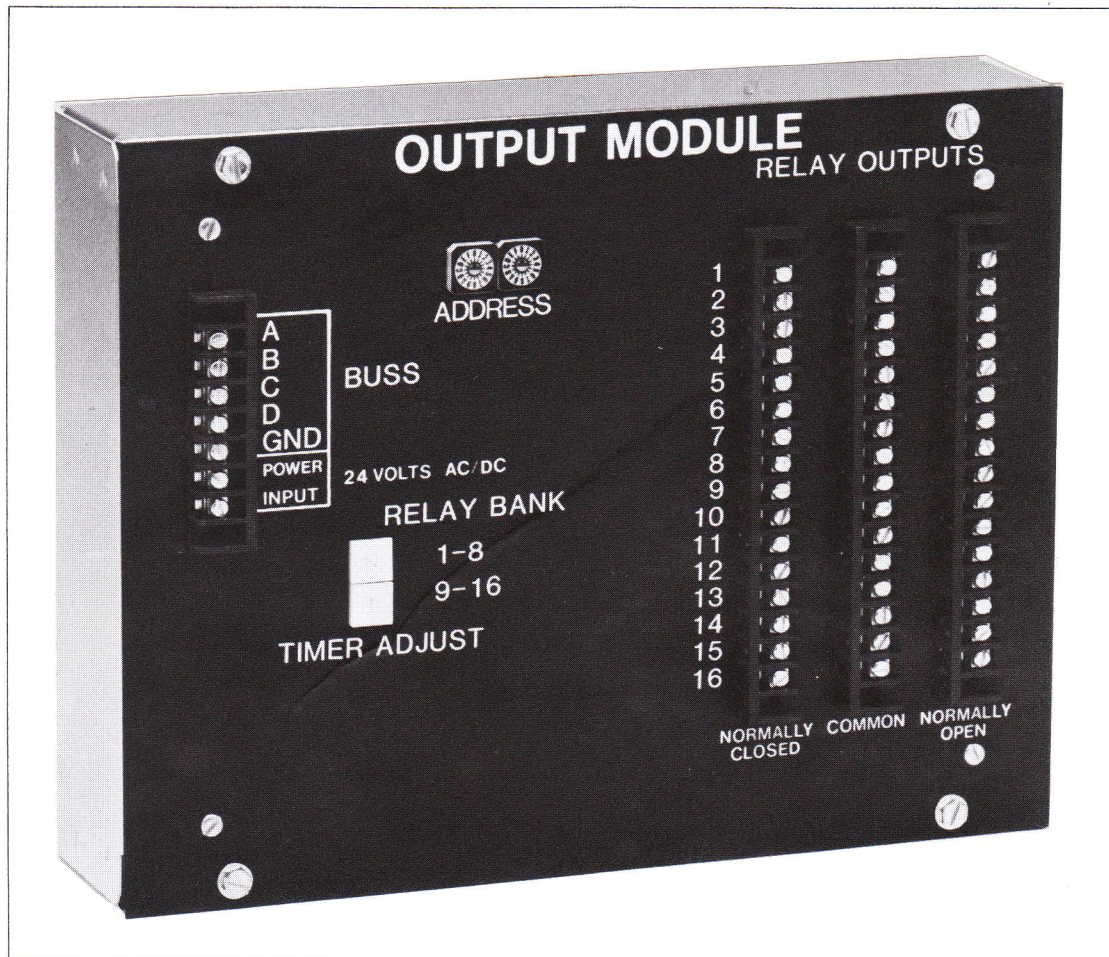


TOYE CORPORATION
ACCESS CONTROL SYSTEMS

Model 4190

Output Relay Module



**Provides 16 Programmable Outputs
For Elevator Control and Timed Events**

Dimensions: 9" wide x 7" High x 2 " Deep

P.O. Box 3997, Chatsworth, CA 91313-3997, Phone (818)-882-4000, Fax (818)-882-5325, www.toyecorp.com

RELAY OUTPUT MODULE

The Output Module provides 16 Form C relay contacts which are usable for transaction activated events (Function 5.3) such as Elevator Control. In addition, it can be programmed for pulsed or continuous activation (Function 5.4) according to defined schedules (Function 5.4) for lighting, environmental controls, and locking schedules. Further, each relay may be programmed to respond to space and area counter zero count outputs. When a relay is defined to activate in response to a zero count, it will remain activated until the count increments from zero.

As an option, the 16 Relay Output Module may be ordered in a *"fail safe"* configuration. When powered, all the relays pull in. A relay command causes the relay(s) to drop out momentarily. If power fails, all the relays drop out.

Although the 16 Relay Output Module can respond to both time programmed relay schedules and transaction activated levels, the later takes precedent. If one or more relays are activated by a time program, and a transaction activated level is generated, the module will assume the matrix of the transaction activated level. At the next one minute update, the time programmed matrix will be restored.

Output Modules may be used in four ways, however, each Module **MUST** be committed to only one of these purposes at any given time, and not mixed:

1. Momentary activation of relays in response to

authorized cards (Elevator levels FUNCTION 5.3).

2. Continuous activation of relays in response to time programmed parameters (Output levels).

3. Momentary activation of relays in response to a programmed time (Output levels). This feature is automatically activated if the programmed Start Time is the same as the Stop Time.

4. Continuous activation in response to the zero count space counter output. (Function 4.2)

The relays are rated at 1 AMP (110V) or 2 AMP (28V) non-inductive.

Power for the Output Module is provided by a regulated supply mounted on the Module. Input power is 20-30 VAC 10 VA, or 22-40 Volts DC 10 watts. The input power supply must be isolated from earth ground. There is no polarity at the screw terminals.

There are 63 available address codes 00-3F (except 20), and each module must be set to a unique address using the two yellow rotary switches on top of the module. Do not duplicate codes used for 16 Zone Alarm Input Modules which are used for programmable shunting.

There is a separate time delay adjustment for each bank of 8 relays. For momentary activation, the relays may be adjusted to hold in for up to 15 seconds (clockwise) after the command is issued by the computer.