



Wall mounting Version

The Chooser is a microcontroller based electronic device that randomly chooses one of two possible options when its pushbutton switch is depressed. The purpose of the device is to remove the human factor when making selections between two possible options. When the front panel pushbutton switch is pressed, The Chooser will momentarily turn on either its built-in "RED" or "GREEN" LED lamp and emit a corresponding tone to indicate which option was selected by The Chooser.

The probability of The Chooser selecting a "RED" or a "GREEN" indication can be selected over a range of 5 to 50 percent, using the "%" rotary selector switch located inside The Chooser's enclosure. For example, if a 5% probability is selected, there will be a 1 in 20 chance that a "RED" indication will appear when the user actuates the pushbutton switch.

In its standard configuration, The Chooser uses red and green lamps to indicate which option was chosen by The Chooser but The Chooser can also be used to actuate a relays, take a picture or just about any other application that requires a decision between two options.

Applications

- Selecting personnel or vehicles leaving a business for a search of their purse, briefcase, car, cargo, etc.
- Random drug testing
- Customs inspections
- In store promotions to select winners from buyers leaving the store
- At highway weigh scales to randomly select trucks for weighing

Technical specifications

Dimensions: Approximately 8" wide, 10" high and 6" deep (20 x 25 x 16 cms.)

Weight: Standard configuration: 9 pounds.

Options: Large external indicator lights for indoor use, traffic signal type indicators for outdoor use, remote pushbuttons, remote speaker, various sensors for activation, relays for contact closure applications.

Warranty: 1 year against factory defects. Trafictec will repair or replace, at its option.

Special applications: Contact Trafictec for special applications and assistance.

How it works

The program in the microcontroller uses a series of sequential numbers, of which a certain percentage are "marked red" depending on the position of the % rotary selector switch. The Chooser program scans the series of numbers at the rate of more than 1,000,000 numbers per second until the momentary pushbutton switch is pressed. At that time, the program stops scanning the numbers and displays the "choice" that corresponds with the number it stops on. Much like a wheel of fortune, some numbers are "RED" and some are "GREEN". The lower the probability percent selected using the rotary selector switch, the fewer number of "reds" there will be on the wheel. Since the logic is designed to make a completely random selection between the two choices, but within the probability setting, it is quite possible that the device could select 6 reds in a row or 100 greens in a row. There is no way a person can "guess" when a "GREEN" or "RED" will be chosen by The Chooser.

Benefits

There are two major benefits to using The Chooser. It will act as a deterrent or create positive anticipation, depending on how it is used. When there is a chance that a person will be caught doing something wrong, there is less chance the person will attempt to get away with it. Like gambling, it can also be used to reward based on chance.

