AUTOMATIC DRINKING WATER TO COMPATIBLE CAPACITY GLASS ON A FAST-FOOD RESTAURANT

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ABSTRACT

With growing technology and the advance of the era, the human mindset greatly affect mainly on electronic equipment, especially at the outlet on the House drink eat fast food restaurants, a lot of human work easier. One of them is recharging of drinking water has a way of working push button faucet and the water will fill the container. But that very aggrieved that waste time and wait for the filling of the water due to the charging manually. Therefore, the final task will be created that is charging automatic drinking water according to the capacity of the glass at a fast-food restaurant. This charging device using the dispenser and the dispenser has a single sensor photodioda, which is used to know the colors of the glasses that had already been determined. And this photodioda sensor is placed on the left side. The way it works with the distinguishing color glass, after which the relay will be activated by timers that have been specified in any color glass. With the active relay, then the solenoid valve is also actively serves as the channel opening and closing the water. In addition there are two push on the switches was first used as a trigger for the glass color is laid on the left are active. And push on the second switch placed on the right, which have a way of working when the glass has been pressing the push switch on then will trigger the process at a minimum so the ATMega16 systems enable relay and automatically fill the water glasses, when not pressing the push switch on the voltage at the relay will be disconnected, so the water will stop charging.
So charging automatically drinking water usage by simply putting a glass colors that are already specified in the dispenser. And color as well as the capacity of an already determined that the color green will fill a 100 mL in the 26s, yellow will fill 200 mL in the 51s, and Red will fill 300 mL in the 77s. And if charging does not correspond to the capacity, then the water pressure on the wane.

Keywords : Dispenser, Photodiode, Push button Sensor, Solenoid Valve