INTELLIGENT OBJECT COUNTING SYSTEM

ABSTRACT

The project is aimed to design a system using which the objects can be

counted automatically, without human involvement.

To develop the project here we use IR technology which is a wireless

communication. A 16x2 LCD is provided to display the object count and a buzzer is

interfaced to the controller for an audio indication. To count the objects, we fix an IR

transmitter and an IR receiver by facing each other at the place where the objects to be

counted and the IR receiver will be interfaced to 8051 microcontroller. Generally, the IR

receiver receives the IR rays transmitted from the transmitter. But when an object passes

through the IR ray passing from the transmitter to the receiver the rays get interrupted.

Which have to be received by the receiver so the corresponding signal change will be

detected by the controller and the object cont will be increased from the previous value

and will be displayed on the LCD. This process repeats for every object which passes

through IR transmitter and receiver. The buzzer gives a beep for each and every

increment of object count.

This project uses regulated 5V, 500mA power supply. 7805 three terminal voltage

regulator is used for voltage regulation. Full wave bridge rectifier is used to rectify the ac

output of secondary of 230/12V step down transformer.

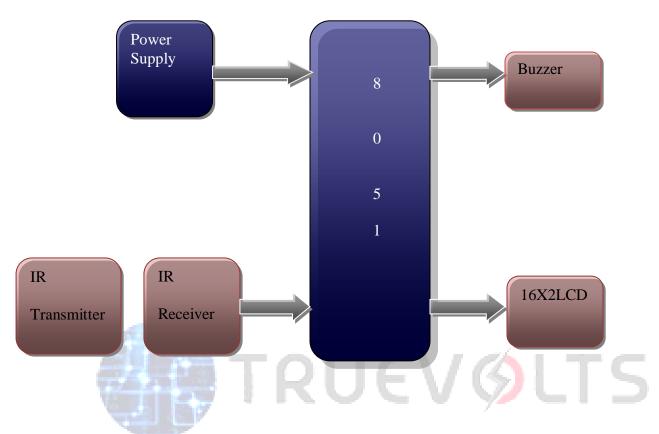
APPLICATIONS:

Bottle filling equipment

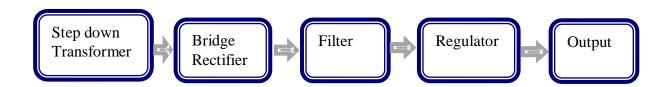
Packing equipment

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