

Circuit Description for VDPT-200

This product design for home, offices, retail shops, department stores, or any other facility that announcing people's entry or exit events with pleasant chime sounds.

The VDP-200T "Video-Eye People Counter" is a digital image tracking technology based people traffic counter and door announcer system integrating a Video Camera as detecting sensor. The system distinguishes and counts entry/exit traffic events simultaneously by its unique Object's Motion Detection Algorithm through radiofrequency link to VDP-200.

- Entry/Exit Detect Circuit: motion/movement switch to complete sense the entry/exit detect, through R22, R44, Q7 & Q8 to amplify then trigger the MCU IC pin 22 & 23 to send the RF signal link to the system to process the obtain signal.
- Sensor Circuit: switch detect the door from close to open then through D2, D3, Q7 & Q8 detect the signal and amplify then trigger the MCU to send the RF signal link to the system.
- Oscillator: control and regulate the oscillating frequency to X1, from MCU (U1) data signal control the radio frequency and generate ACK modulation.
- Power Supply Circuit: battery through regulator U3 (7806) generates 5.0V voltage supply to MCU and other circuits.
- MCU: U1 (39P0F4XZZ) composed of signal processor and control center of the entire circuit.