



Display Without Number



Display With 3 Digit Number



Control Unit

IR Sensors

COSY ESC3D Entry control system is useful to control and monitor number of visitors present inside a premises . It is possible to program maximum number of persons allowed between 1 to 999 . System is recommended for maintaining social distancing and providing services efficiently in shops, malls , galleries exhibitions ,clinics and hospitals, service centers, offices , restaurants & canteens etc . System is also suitable for automatically controlling entry of vehicles in car parking areas .

System consists of following items :

1. One LED display to glow GO /STOP signs in 4 inches (10 cm) high bright green and red LED lights .
OPTIONAL : Customers can optionally order bigger display to show current 3 digit number also)
Display can accept data through a 3 core cable up to 30 m away or use wireless mode up to 10 m distance.
2. One control unit which allows to set maximum allowed number of visitors . It has its own small built-in display to show the 3 digit number and has LED indicators to show status of GO/STOP lights .
This unit can send data to display unit through a 3 core data cable or it can be set to send data through RF wireless mode operating at 433MHz frequency within a distance of 10 meters in open area.
3. One pair of Infra red transmitter and receiver units are provided to install at the entry door ,it can be used to automatically send count up and count down pulses to control unit . when person walks through the sensor inside the premises it increments the number and when a person comes out of same sensors it send the countdown pulses . System automatically becomes ready to receive next up or down pulse after 1 second . It will not function if more than 1 persons pass through the sensor within 1 second .
It is recommended to allow only one person to enter or leave through the sensors .

Installation

Install IR transmitter & receiver sensors appx 3 feet above the ground exactly in front of each other within maximum distance of 8 feet apart.
Connect IR transmitter unit with control unit through a 2 core wire in correct polarity at respective terminals.
Connect IR receiver unit to control unit through a 4 core wire at respective terminals .
Switch on the power to this control unit .
When sensors are perfectly aligned both red LEDs of IR sensor receiver unit will start glowing.

Install the LED display at door entry point within a distance of 10 meters away from control unit .
Connect display with 3 core connector cable provided with system .Maximum recommended cable 30 meter .
For wireless operation of up to 10 m distance select wireless mode switch in both display and control units .

Note : Use 2 separate pairs of IR transmitters and receivers where entry and exit doors are deferent.

Operation

Set target number of visitors by simultaneously keeping pressed SET button along with DIGIT 1, 2 & 3 keys . To reset target number to 0 , simultaneously keep pressed RESET along with SET button.

To start from 0 press the RESET key long for 2 seconds . The set target number remains in the memory of system .
System is ready to accept up or down pulses . Display glows GO sign in green till it arrive at set target number .
When count value reaches target number it start glowing STOP sign in red with every increment of number .
When number decreases below set target number it will again start glowing GO sign in green .

MANUAL USE : Use UP & DOWN buttons to serially increase or decrease the numbers manually .
AUTO USE : Use IR sensors to automatically increase / decrease the numbers through IR sensor inputs.
RELAY OUTPUTS : control unit also provide dry contact relay outputs for connecting external Red or green lights or any load of up to 7A12VDC / 5A220VAC / 7A110VAC rating

CAUTION : Do not install or remove the cable of display while the system power is ON.

Power Supply : Use 12VDC 2 amp rating power supply provided with system for use with 100V to 240VAC.
Recommended to use the system with a with UPS for power backup.

Dimensions & Weight : Display Unit without Number : 25 inches X 6 inches X 1 inches x 2 kg appx
Display unit with 3 digit number : 12 inches x 6 inches x 1 inches x 1 kg.
Control Unit : 8 inches X 3.5 inches X 1.5 inches x 300 gms appx.

Manufactured in India by:

COSYCOM , 1, Indraprastha, Sewla, Majra, Dehradun - 248 171 , INDIA

WhatsApp /Mob: +91-9358106627 E-Mail: cosycom@gmail.com , Web : www.cosycom.com