PSS-333044

IR Sensor

Related Products

Product.	Interf.	Descriptions
PSS-333042	Switch	IR Sensor (Diffuse Reflection, 2.5 meters)
PSS-333044	Switch	IR Sensor (Mirrored reflection, 4 meters)

Product introduction

PSS-333044 IR sensor is a mirror reflective photoelectric switch, which is a sensor integrating transmitter and receiver. When a detected object passes by, it reflects enough light emitted by the photoelectric switch transmitter to the receiver, so the photoelectric switch generates a switching signal.

Detection principle

Specular reflection principle; The transmitter and receiver are integrated. The photoelectric switch is opposite to the anti angle matrix reflector. The light of the transmitter is fed back to the receiver after being reflected by the reflector. The photoelectric switch and the angle matrix reflector (prism) form a closed optical path. It is a detection form by blocking or attenuating the light of the optical path.

Product features

- ❖ Mirror reflection photoelectric switch
- ❖ Super bright visual LED
- ❖ High sensitivity, high-precision two-way personnel counting sensor, applicable to retail stores, fast restaurants, SMB buildings, etc
- ❖ Accurately count the quantity and identify the direction at the same time
- ❖ Be able to analyze valuable statistical data, such as customer traffic profile, such as peak/trough, hour, week, day/week, month, day/week
- ❖ Diffuse reflection, no need for reflector, easy installation
- ❖ Relay output

Product parameters

Parameters	
Detection distance	0-4m (from one side of the door to the other side); Reflector is required, no reflector is required within 0.5m
Light source type	Infrared light,850nm
Light source characteristics	Infrared light, modulated light
The working state displays	Green LED, and the power supply is ON
The function displays	Yellow LED, which lights up when receiving light
Adjusting knob	Detecting distance of adjusting element
Response time	2.5ms～100ms
Interface	

Output	Relay output, normally open/normally closed optional
Warranty	
Warranty period	1year
Mechanics	
Operating temperature	- 25 ℃～ 55 ℃
Operating humity	45%～85%RH
Protection level	IP67
Size	50*50*18mm
Power	
Working voltage	12～36V DC
No load current	≤ 30mA

Application

❖ In the airport, shopping malls, exhibition halls, retail stores, fast-food restaurants and other public places, real-time monitoring of customer traffic statistics.

❖ For example, customer traffic mode, peak business hours, staffing. Over time, effective real-time statistics and historical data can also be obtained on the use of laboratories, meeting rooms, sports facilities (basketball or squash, tennis courts) and smart toilets. This allows identification of whether the device is effectively used when it is idle. When the specified number of people is reached, the cleaners will be called to work.

❖ In industrial application, the product count of industrial assembly line ensures the quantity statistics of products in a certain process stage. This is very important for any manufacturer

Ordering Guide

❖ PSS-333044 sensor is a sensor only, it needs to use with WxS terminals to combine to different product series; On the basis of the combination, multiple PSS sensors can be loaded through the Multiple Purpose Interface (MPI) of the intelligent IoT terminal.

❖ According to the specific scenario of use case, the enclosure and antenna of intelligent IoT terminal will be replaced to ensure the product quality and performance.

❖ PSS sensors can be integrated with the WxS terminal via the MPI interface to form different product series.

❖ Example of products are as follows:

  o WxS7800-333044 WiFi Series IR Smart Sensor & RTU 2-in-1 Terminal
  o WxS8800-333044 LoRaWAN Series IR Smart Sensor & RTU 2-in-1 Terminal
  o WxS9800-333044 NB-IoT (China) Series IR Smart Sensor & RTU 2-in-1 Terminal
  o WxS9900-333044 NB-IoT (Global) Series IR Smart Sensor & RTU 2-in-1 Terminal
  o WxSC800-333044 LTE Cat1 Series IR Smart Sensor & RTU 2-in-1 Terminal
  o WxSC900-333044 LTE Cat1 w/GPS Series IR Smart Sensor & RTU 2-in-1 Terminal
  o WxSD800-333044 LTE Cat4 Series IR Smart Sensor & RTU 2-in-1 Terminal
  o CxS1800-333044 Ethernet (RJ45) Series IR Smart Sensor & RTU 2-in-1 Terminal