

PSS-333041

IR Sensor

Related Products

Product.	Interf.	Descriptions
PSS-333041	Switch	IR Sensor (1 meter)
PSS-333042	Switch	IR Sensor (Diffuse Reflection, 2.5 meters)
PSS-333043	Switch	IR Sensor (Mirrored reflection, 4 meters)

Product introduction

PSS-333041 IR infrared detection sensor is a sensor integrating transmitter and receiver. When a detected object passes by, the object reflects a sufficient amount of light emitted by the photoelectric switch transmitter to the receiver, so the photoelectric switch generates a switching signal.

Detection principle

When the switch emits light, the target generates diffuse reflection, and the transmitter and receiver form a single standard component. When enough combined light returns to the receiver, the switch state changes. Features: the effective action distance is determined by the reflection ability of the target and by the surface properties and color of the target; With less assembly cost, when the switch is composed of a single element, it can usually achieve rough positioning; The background suppression function is used to adjust the measurement distance; It is sensitive to the dust on the target and the changed reflection performance of the target.

Product features

- ❖ Infrared diffuse reflection photoelectric switch sensor
- ❖ Detection distance: 30cm, 50cm, 100cm adjustable
- ❖ Response frequency: 200Hz
- ❖ Working voltage: 5VDC
- ❖ Output current: 100mA
- ❖ Sensitive response, strong anti-interference, solid shell and long service life
- ❖ Integrated transmitting and receiving, easy to assemble and use
- ❖ ABS housing is solid, environmentally friendly and insulated



Product parameters

Parameters	
Detection distance	30cm, 50cm, 100cm (adjustable)
Response frequency	200Hz
Working voltage	5VDC
Output current	100mA
Warranty	
Warranty period	1year
Mechanics	
Size	M18*1*70
Cable length	1.2 meters
Degree of protection	IP66

Power

Power

DC5V

Application

Infrared diffuse reflection photoelectric switch is widely used in metallurgical industry, numerical control equipment, assembly line counting, chemical industry, automatic door and other fields.

Ordering Guide

- ❖ PSS-333041 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:
 - WxS7800-333041 WiFi Series IR Smart Sensor & RTU 2-in-1 Terminal
 - WxS8800-333041 LoRaWAN Series IR Smart Sensor & RTU 2-in-1 Terminal
 - WxS9800-333041 NB-IoT (China) Series IR Smart Sensor & RTU 2-in-1 Terminal
 - WxS9900-333041 NB-IoT (Global) Series IR Smart Sensor & RTU 2-in-1 Terminal
 - WxSC800-333041 LTE Cat1 Series IR Smart Sensor & RTU 2-in-1 Terminal
 - WxSC900-333041 LTE Cat1 w/GPS Series IR Smart Sensor & RTU 2-in-1 Terminal
 - WxSD800-333041 LTE Cat4 Series IR Smart Sensor & RTU 2-in-1 Terminal
 - CxS1800-333041 Ethernet (RJ45) Series IR Smart Sensor & RTU 2-in-1 Terminal