

# Unmanaged Industrial Ethernet Switch

# **ODOT-MS105G/108G**

## **User Manual**

V1.00

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## ODOT-MS105G/108G Unmanaged Industrial Switches



**Sichuan Odot Automation System Co., Ltd.**

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## Version Information

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## Software download

Please log on the official website: [www.odotautomation.com](http://www.odotautomation.com) and click on the corresponding product page to download.

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# 1.Product Overview

## 1.1 Product Introduction

ODOT-MS105G/108G is a series of plug and play, industrial grade non-management Ethernet switch with 5/8 gigabit ports, all of which support 10/100/1000Mbps auto-negotiation (MDI/MDIX), IEEE 802.3/ 802.3u / 802.3z, Auto-MDI/ MDIX and broadcast storm protection.

The working temperature range is  $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ , adapt to various industrial environments with standard 35mm DIN rail installation and the protection level is IP20.

## 1.2 Function Introduction

	ODOT-MS105G	ODOT-MS108G
Support	IEEE 802.3/ 802.3x/ 802.3u/ 802.3z	
Input voltage	1 way 9~36V DC	
Installation	35mm standard Din rail	
MAC address	2K	4K
Support	Auto-negotiation 10/100/1000 Mbps, half/ full duplex, Auto MDI/ MDIX	
Working Temperature	$-20 \sim 70^{\circ}\text{C}$	
Humidity	5~90% (no-condensation)	
Support	Broadcast storm protection	
Support	Anti-reverse connection protection	
Warranty	3 years	

## 1.3 System Parameter

### Technical Parameters

	ODOT-MS105G	ODOT-MS108G
IEEE 802.3	10BaseT	
IEEE 802.3u	100BaseT(X)	
IEEE 802.3z	1000BaseT	
IEEE 802.3x	Flow Control	
Process Type	Storage and forwarding	

### Switch Attribute

	ODOT-MS105G	ODOT-MS108G
MAC address size	2K	4K
Interface	RJ45: 10/100/1000BaseT auto-detection, MDI/MDIX auto-negotiation	
Working Conditions	Temperature: -20~70℃ Humidity: 5~90% (no condensation)	
Storage Conditions	Temperature: -25~80℃ Humidity: 5~90% (no condensation)	
Power	9V~36V DC (suggested 24V)	
Overcurrent Protection	1.25A	
Anti-reverse connection protection	Support Anti-reverse connection protection	

### Electrical Parameters

	ODOT-MS105T	ODOT-MS108T
Working Voltage	9~36V DC	
Overcurrent Protection	1.25A	
Overall Power Consumption	100mA@24V	1400mA@24V
Working Humidity	5~95% (no condensation)	
Warranty	3 years	
ESD	2KV	

## 2. Hardware Description

### 2.1 Product Appearance

Take ODOT-MS105G as example (ODOT-MS108G is similar)



## 2.2 Wiring Diagram

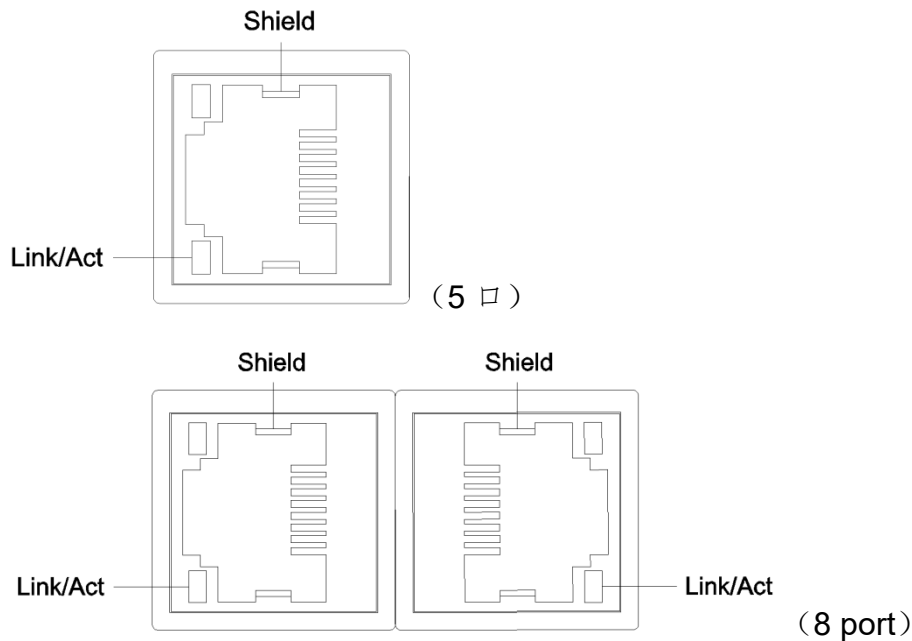
Wiring Port	Wiring Identification	Wiring Instruction
1	PE	Earthing
2	V-	Power input negative
3	V+	Power input positive

## 2.3 LED Indicator Instruction

### 1. Power LED Indicator

Marking	Status	Definition
PWR	ON (RED)	Power supply is normal
	OFF(RED)	Power supply is abnormal

### 2. Network Port Indicator Status



Speed: Network speed indicator (multi-color)

Orange: 1000Mbps

Green: 100Mbps

Neither green nor orange: 10Mbps

Link/Act: Link Status indication, Active: Active indicator

ON: Link UP

OFF: Link DOWN

Flash: Active

SHIELD: RJ45 Plug shield interface



## 2.4 Installation Size

Table 2.4.1 ODOT-MS105G Installation Size



Table 2.4.2 ODOT-MS108G Installation size



### 3. Troubleshooting

(1) The "PWR" LED indicator is off, please check whether the power supply of the switch is normal;

(2) After insert the network cable, the LED indicator on the network port is not on, please check whether both ends of the network cable are plugged firmly and whether the network cable is damaged.

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