

NS-205-IP67 Series



Unmanaged 5-Port Industrial Ethernet Switch with IP67 Casing

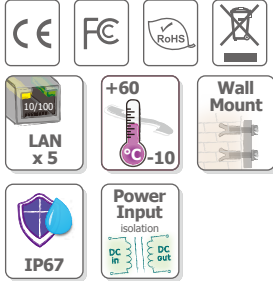
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Unmanaged Ethernet Switches

NS-205-IP67 Series

Highlight Information >>>>

NS-205-IP67 Series



Only for NS-205-IP67/DIN



NS-205-IP67/DIN



NS-205-IP67



● Introduction

NS-205-IP67 ethernet switches are designed for use in industrial waterproof/harsh environments. The rugged packaging and IP67 connectors guarantee a total protection that can withstand a variety of extreme conditions such as high temperatures, extreme shocks & vibrations, dust particles or even liquid immersion. They can be directly mounted to any machine or convenient flat surface. Even with all its rugged features, the switch still provides a high level of functionality, including the ability to support full-duplex communication and 10 Mbps/100 Mbps transmission speeds. With 1.4 Gbps of total bandwidth, the switch can simultaneously handle full wire speed communication on each port. A dedicated uplink port enables a connection to other switches without use of a crossover cable. No programming is necessary, as the switch auto-learns network addresses. +10 V_{DC} ~ +30 V_{DC} isolated power input keeps spikes and surges on the power line from damaging the power supply. They are completely plug and play and ready to go right out of the box.

● Features

- Automatic MDI/MDI-X crossover for plug-and-play
- Each port supports both 10/100 Mbps speed auto negotiation
- Store-and-forward architecture
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- 1.4 Gbps high performance memory bandwidth
- Integrated look-up engine with dedicated 1024 unicast MAC addresses
- Supports +10 V_{DC} ~ +30 V_{DC} with 1 kV isolation Reverse Polarity Protection
- Plastic casing with IP67

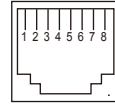
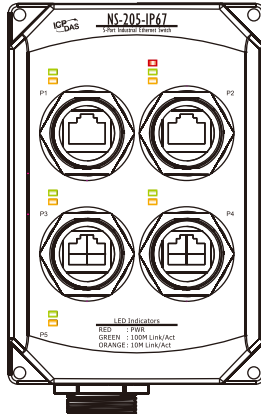
● Specifications

Models	NS-205-IP67	NS-205-IP67/DIN
Technology		
Standards	IEEE 802.3, 802.3u, 802.3x	
Processing Type	Store & forward, wire speed switching	
MAC Addresses	1024	
Memory Bandwidth	1.4 Gbps	
Frame Buffer Memory	256 Kbit	
Flow Control	IEEE 802.3x flow control, back pressure flow control	
Interface		
RJ-45 Ports	10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection	
LED Indicators	Power, 10/100M, Link/Act	
Cable	10 Base-T (Cat.3, 4,5 UTP cable; 100m Max.)	
	100 Base-TX (Cat.5 UTP cable; 100m Max.)	
Power		
Input Voltage	+10 V _{DC} ~ +30 V _{DC} (1 kV isolation)	
Power Consumption	0.12 A @ 24 V _{DC} , +/-5% arrowed with 10M Full duplex	
	0.1 A @ 24 V _{DC} , +/-5% arrowed with 100M Full duplex	
Mechanical		
Casing	Plastic	
Flammability	UL 94V-0	
Environmental Rating	Protection rating IP67 for Operating Temperature -10 °C ~ +60 °C	
	Protection rating IP66 for for Operating Temperature -40 °C ~ +80 °C	
Dimensions (W x L x H)	85 mm x 76 mm x 137 mm	89 mm x 90 mm x 138 mm
Installation	Wall mounting	DIN-Rail or Wall Mounting
Environmental		
Operating Temperature	-10 °C ~ +60 °C (Protection rating IP67)	
	-40 °C ~ +80 °C (Protection rating IP66)	
Storage Temperature	-10 °C ~ +60 °C (Protection rating IP67)	
	-40 °C ~ +85 °C (Protection rating IP66)	
Ambient Relative Humidity	100% RH for Operating Temperature -10 °C ~ +60 °C	
	10% ~ 90% RH, non-condensing for Operating Temperature -40 °C ~ +80 °C	

LED Functions

LED Indicator Functions

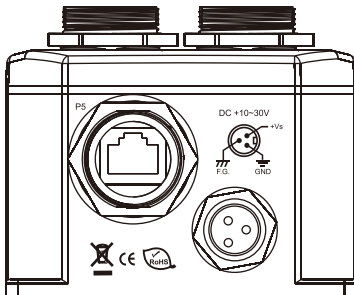
LED	Color	Description
PWR	Red	Power is On
	Off	Power is Off
10/100M (Port 1)	Orange	Link to 10 Mbps
	Green	Link to 100 Mbps
	Off	Not Networking
10/100M (Port 2)	Orange	Link to 10 Mbps
	Green	Link to 100 Mbps
	Off	Not Networking
10/100M (Port 3)	Orange	Link to 10 Mbps
	Green	Link to 100 Mbps
	Off	Not Networking
10/100M (Port 4)	Orange	Link to 10 Mbps
	Green	Link to 100 Mbps
	Off	Not Networking
10/100M (Port 5)	Orange	Link to 10 Mbps
	Green	Link to 100 Mbps
	Off	Not Networking



RJ-45 Pin-Out

Pin#	Signal Name	Function
1	TD+	Transmit Data
2	TD-	Transmit Data
3	RD+	Receive Data
4	NC	No Connection
5	NC	No Connection
6	RD-	Receive Data
7	NC	No Connection
8	NC	No Connection

Pin Function for Terminal Block



External power supply is connected using the removable terminal block:

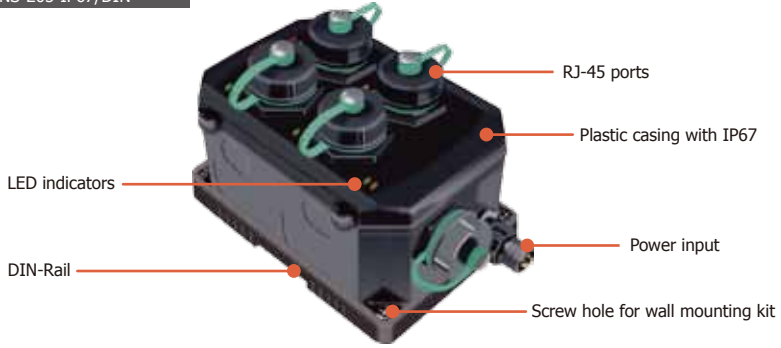
+Vs : Power input (+10 V_{DC} ~ +30 V_{DC}) and should be connected to the power supply (+)

GND: Ground and should be connected to the power supply (-)

F.G. : F.G. stands for Frame Ground (protective ground). It is optional. If you use this pin, it can reduce EMI radiation; improve EMI performance and ESD protection.

● Appearance

NS-205-IP67/DIN

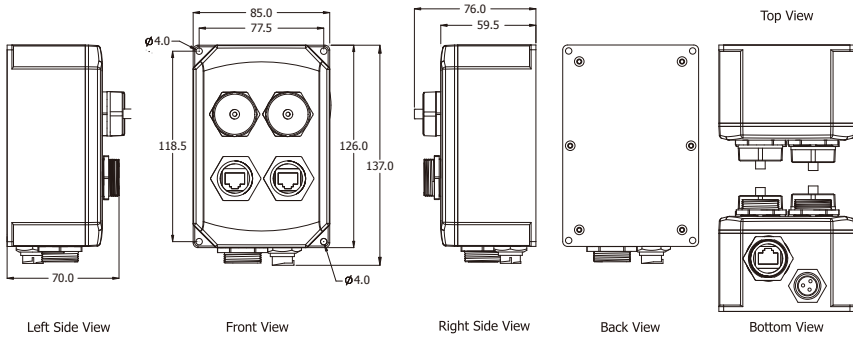


● Applications

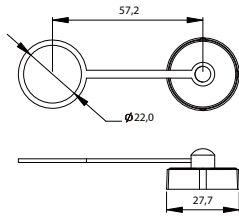


● Dimensions (Unit: mm)

NS-205-IP67

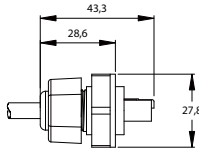


IP67 Ethernet Cap with Tether



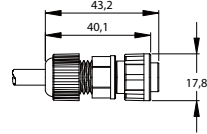
IP67 Ethernet Plug

Cable Dia:
Max. 7.0 mm
Min. 5.5 mm



IP67 PWR Plug

Cable Dia:
Max. 6.5 mm
Min. 5.0 mm



● Ordering Information

NS-205-IP67 CR	Unmanaged 5-Port Industrial Ethernet Switch with IP67 Casing (RoHS)
NS-205-IP67/DIN CR	NS-205-IP67 with DIN-Rail Mount (RoHS)

● Accessories

GPSU06-6	24V/0.25A, 6 W Power Supply
KWM020-1824F	24V/0.75A, 18 W Power Supply
DIN-KA52F	24V/1.04A, 25 W Power Supply with DIN-Rail Mounting

<p>IP67 RJ45 Plug</p> <p>4SA50-001</p>	<p>IP67 Power Plug</p> <p>4SIO1K0000016</p>	<p>Cap with Tether</p> <p>4SA50-0004</p>
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