NS-208-IP67/ NS-208PSE-IP67

8-Port Industrial 10/100 Mbps Ethernet Switch with IP67 Casing



Introduction:

The NS-208PSE-IP67/NS-208-IP67 is designed for industrial applications in harsh environments. The rugged RJ-45 ensures tight, robust connections, and guarantees reliable operation, even for applications that are subject to high vibration and shock.

The NS-208PSE-IP67 PoE switch provides 8 fast Ethernet with 8 IEEE 802.3af compliant PoE ports. The switch is classified as power source equipment (PSE) and provide up to 15.4 W of power per port.

The Ethernet switch supports IEEE 802.3/802.3u/802/3x with 10/100M, full/half-duplex, MDI/MDI-X auto-sensing, and provides an economical solution for your industrial Ethernet network.

Specifications:

Models	**NS-208-IP67**	**NS-208PSE-IP67**
Technology		
Standards	IEEE 802.3, 802.3u, 802.3x ,802.3af (Power over Ethernet)	
Processing Type	Store & forward, wire speed switching	
MAC Addresses	1024	
Memory Bandwidth	2 Gbps	
Frame buffer memory	512 Kbit	
Flow Control	IEEE802.3x flow control, back pressure flow control	
Interface		
RJ45 ports	10/100 Base-T(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection	
LED Indicators	PWR, Link/Act	PWR, Link/Act , Power Device is detected
Connector	Rugged RJ-45	
Power Input		
Input Voltage Range	+12 VDC ~ +53 VDC	+46 VDC ~ +53 VDC for PoE output
Power consumption	0.2 A @ 24 VDC	0.1 A @ 48 VDC without PD loading; 1.45 A @ 48 VDC with PD full loading
Protection	Power reverse polarity protection	
Connection	IP67 PWR Plug	
PoE Technology		
PoE Compliance	-	100% IEEE 802.3af compliant
PoE Classification	-	PSE (Power Sourcing Equipment)
PoE Voltage	-	+46 ~ +55 VDC depending on power input
PoE Power	-	Up to 15.4 watts per channel
PoE Pin Assignments	-	V+ (Pin 1, 2), V- (Pin 3, 6)
Mechanical		
Casing	Plastic (Flammability UL 94V-0)	
Environmental Rating	Protection rating IP67 for Operating Temperature -10 °C ~ +60 °C	
	Protection rating IP66 for Operating Temperature -40 °C ~ +75 °C	
Dimensions (W x L x H)	190 mm x 155 mm x 104 mm	
Installation	DIN-Rail Mounting or Wall Mounting	
Environmental		
Operating Temperature	-10 °C ~ +60 °C (Protection rating IP67)	
	-40 °C ~ +75 °C (Protection rating IP66)	
Storage Temperature	-10 °C ~ +60 °C (Protection rating IP67)	
	-40 °C ~ +75 °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 ~ +75 °C	

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LED Indicator Functions:

LED	*Color*	*Description*
Power	Red On	Power is On
	Red Off	Power is Off
Port1~8	Green On	Link/Act
	Green Off	Not Networking
Port1~8	Orange On	Power Device is detected (For NS-208PSE-IP67)

RJ-45 Pin-out:

Pin#	Signal Name	Function
1	TD+	Transmit Data
2	TD-	Transmit Data
3	RD+	Receive Data
6	RD-	Receive Data

Pin Function for Terminal Block:

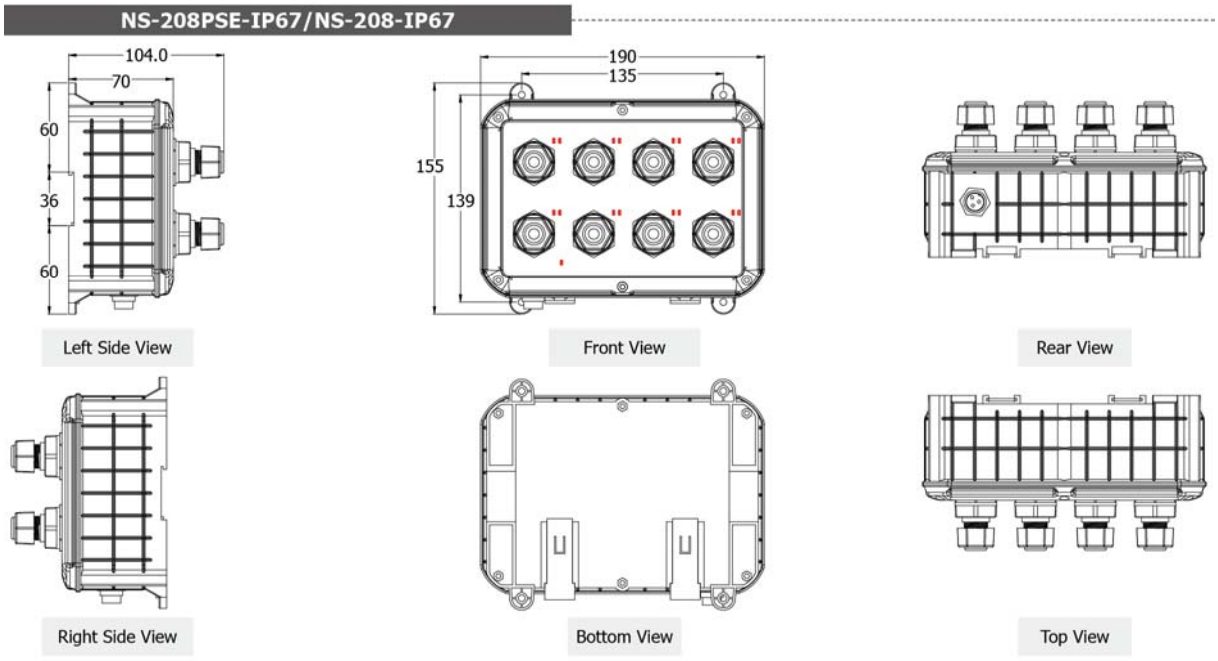
External power supply is connected using the removable terminal block:

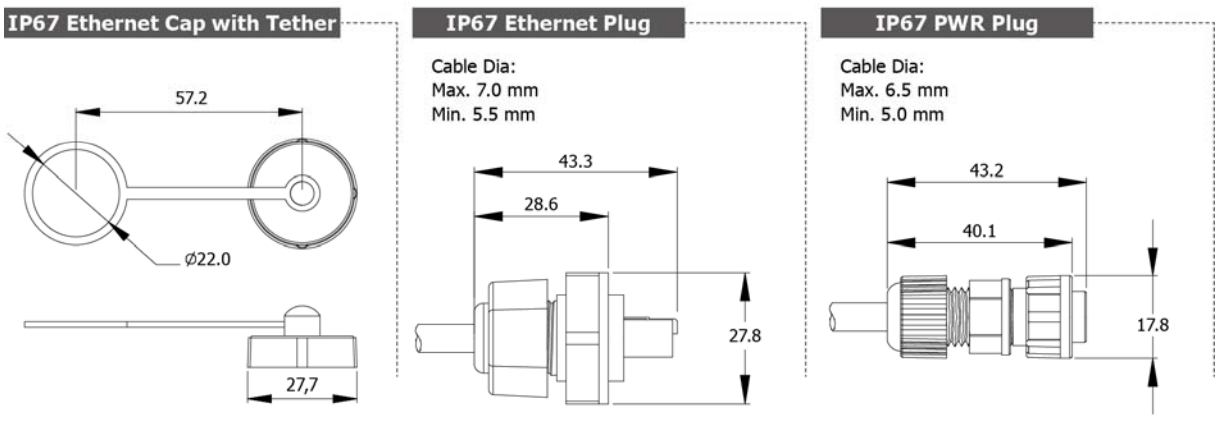
PWR (Power) : Power input (+12 ~ +53 VDC for NS-208-IP67; +46 ~ +53 VDC for NS-208PSE-IP67) and should be connected to the power supply (+)

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.

Installation: Mechanical Dimensions



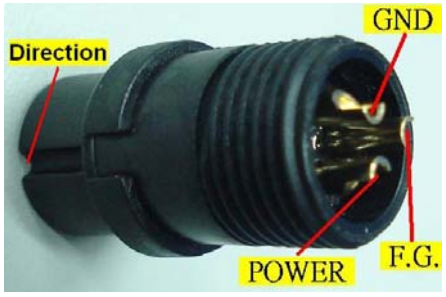


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Power Plug installed to waterproofing attachment.

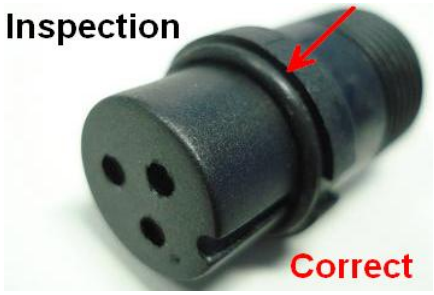






Power Plug Wiring





Installed step:























Power Plug Assembly

Important: Make sure to tighten firmly.

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RJ45 Plug installed to waterproofing attachment.
Installed step:



RJ45 Plug Assembly

Important: Make sure to tighten firmly.

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