

# NS-208-M12-IP67 *NEW*

8-port M12 Unmanaged Ethernet Switch with IP67

# NS-208PSE-M12-IP67 *NEW*

8-port M12 Unmanaged PoE Ethernet Switch with IP67

NS-208-M12-IP67

NS-208PSE-M12-IP67



NS-208-M12-IP67/NS-208PSE-M12-IP67 Series				For NS-208PSE-M12-IP67		For NS-208-M12-IP67	
Wall & DIN-Rail Mount	IP67	CE	FCC	Input Voltage	PoE/LAN	LAN	

## Features ▶▶▶

- Each port supports both 10/100 Mbps speed auto negotiation
- 8 PoE ports with Power Sourcing Equipment (PSE) operation (NSM-208PSE-M12-IP67)
- Over-temperature, over-current and over/under-voltage detection (NSM-208PSE-M12-IP67)
- 8-port 10/100 Mbps M12 type connector with IP67 protection
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- Automatic MDI/MDI-X crossover for plug-and-play
- Store-and-forward architecture
- Auto-detection of PD (powered devices) and automatic power management (NSM-208PSE-M12-IP67)
- Supports operating temperatures from -40 °C ~ +75 °C

## Introduction

The NS-208PSE-M12-IP67/NS-208-M12-IP67 is designed for industrial applications in harsh environments. The M12 connectors ensure tight, robust connections, and guarantees reliable operation, even for applications that are subject to high vibration and shock.

The NS-208PSE-M12-IP67 PoE switch provides 8 fast Ethernet M12 ports 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.

The NS-208-M12-IP67 provides a wide +12 V<sub>DC</sub> ~ +53 V<sub>DC</sub> power range to fit all the common power standards found in industrial automation, without external power converters. The wide power input lowers installation and maintenance costs.

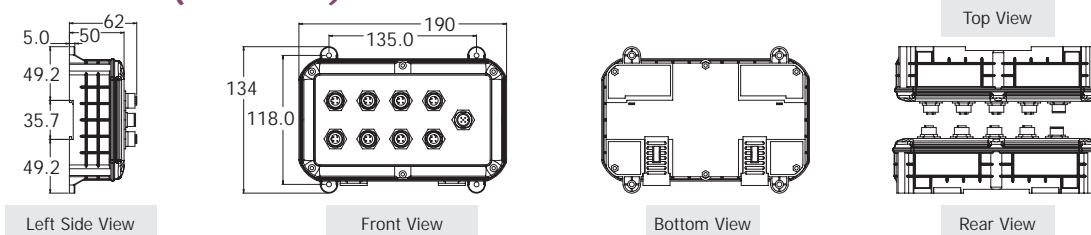
## Comparison Table of 8-port M12 Ethernet Switch

Mode Name	NSM-208PSE-M12	NSM-208PSE-M12-IP67	NS-208PSE-M12-IP67	NS-208-M12-IP67
PoE	802.3af x 8	-	802.3af x 8	-
Input Voltage Range	+46 V <sub>DC</sub> ~ +53 V <sub>DC</sub>	+12 V <sub>DC</sub> ~ +53 V <sub>DC</sub>	+46 V <sub>DC</sub> ~ +53 V <sub>DC</sub>	+12 V <sub>DC</sub> ~ +53 V <sub>DC</sub>
Operating Temperature	-40 °C ~ +75 °C		-40 °C ~ +75 °C	
Casing	Metal with IP40		Plastic with IP67	
Installation	Wall Mounting		DIN-Rail Mounting or Wall Mounting	
Dimensions (W x L x H)	190 mm x 56 mm x 100 mm		190 mm x 62 mm x 134 mm	

## Specifications

Models	NS-208PSE-M12-IP67	NS-208-M12-IP67
<b>Technology</b>		
<b>Standards</b>	IEEE 802.3, 802.3u, 802.3x, 10/100 Base-T(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection	
<b>Processing Type</b>	Store & forward	
<b>MAC Addresses</b>	1024	
<b>Memory Bandwidth</b>	3.2 Gbps	
<b>Frame Buffer Memory</b>	512 Kbit	
<b>Flow Control</b>	IEEE 802.3x flow control, back pressure flow control	
<b>Interface</b>		
<b>LED Indicators</b>	PWR, Link/Act, Power Device is detected	PWR, Link/Act
<b>Ethernet Isolation</b>	1500 V <sub>rms</sub> 1 minute	
<b>Connector</b>	Female 4-Pin shielded M12 D-coding connector x 8	
<b>Power Input</b>		
<b>Input Voltage Range</b>	+46 V <sub>dc</sub> ~ +53 V <sub>dc</sub>	+12 V <sub>dc</sub> ~ +53 V <sub>dc</sub>
<b>Power Consumption</b>	0.12 A @ 48 V <sub>dc</sub> without PD loading 3.0 A @ 48 V <sub>dc</sub> with PD full loading	0.12 A @ 48 V <sub>dc</sub>
<b>Protection</b>	Power reverse polarity protection	
<b>Connector</b>	Male 5-Pin shielded M12 A-coding connector x 1	
<b>PoE Technology</b>		
<b>PoE Compliance</b>	100% IEEE 802.3af compliant	-
<b>PoE Classification</b>	PSE (Power Sourcing Equipment)	-
<b>PoE Voltage</b>	+48 V <sub>dc</sub> depending on power input	-
<b>PoE Power</b>	Up to 15.4 W per port	-
<b>PoE Operation</b>	Automatic detection and power management	-
<b>PoE Pin Assignments</b>	V+ (Pin 1, 2), V- (Pin 3, 6) for RJ-45	-
<b>Mechanical</b>		
<b>Casing</b>	Plastic with IP67	
<b>Dimensions (W x L x H)</b>	190 mm x 62 mm x 134 mm	
<b>Installation</b>	DIN-Rail Mounting or Wall Mounting	
<b>Environmental</b>		
<b>Operating Temperature</b>	-10 °C ~ +60 °C (Protection rating IP67) -40 °C ~ +75 °C (Protection rating IP66)	
<b>Storage Temperature</b>	-10 °C ~ +60 °C (Protection rating IP67) -40 °C ~ +75 °C (Protection rating IP66)	
<b>Ambient Relative Humidity</b>	100% RH for Operating Temperature -10 °C ~ +60 °C 10% ~ 90% RH, non-condensing for Operating Temperature -40 °C ~ +75 °C	

## Dimensions (Units: mm)



## Ordering Information

NS-208-M12-IP67 CR	8-port M12 Unmanaged Ethernet Switch with IP67 (RoHS) Includes M12D-4P-IP68 x 8, A-CAP-M12M x 8, M12A-5P-IP68 and A-CAP-M12F x 1
NS-208PSE-M12-IP67 CR	8-port M12 Unmanaged PoE Ethernet Switch with IP67 (RoHS) Includes M12D-4P-IP68 x 8, A-CAP-M12M x 8, M12A-5P-IP68 and A-CAP-M12F x 1

## Accessories

MDR-60-48	48 V/1.25 A, 60 W Power Supply with DIN-Rail Mounting
DIN-KA52F-48	48 V/0.52 A, 25 W Power Supply with DIN-Rail Mounting
KA52F-48	48 V/0.52 A, 25 W Power Supply

M12D-4P-IP68	A-CAP-M12M	M12A-5P-IP68	A-CAP-M12F
4PIO1K0000001	4PIO1K0000002	4PIO1K0000003	4PIO1K0000004
You need to choose high quality M12 cable, please refer to <a href="http://www.balluff.ca/Balluff">http://www.balluff.ca/Balluff</a>			