

# Unmanaged Industrial Switch

## M12 Series

### Introduction

The M12 series unmanaged Ethernet switch is designed specifically for industrial applications, using M12 connectors to ensure a tight and robust connection, and guarantees reliable operation on applications that are subject to high vibration and shock. This series of Ethernet switches offers 5/8 M12 Ethernet ports with a wide operating temperature of  $-40^{\circ}\text{C}$  to  $75^{\circ}\text{C}$ , which provides to user a safety and reliable solution.

Model No.	Specifications	Picture
<p><b>FNS100KW-05-AFB-M12-S</b></p> <p><b>PoE: FNS100KW-05-AFB-4P-M12-S1</b></p>	<p><b>5-Port Industrial Switch, Fast</b></p>	
<p><b>FNS100KW-08-AFB-M12-S</b></p> <p><b>PoE: FNS100KW-08-AFB-4P-M12-S1</b></p>	<p><b>8-Port Industrial Switch, Fast</b></p>	
<p><b>FNS100KW-05-AGB-M12-S</b></p> <p><b>PoE: FNS100KW-05-AGB-4P-M12-S1</b></p>	<p><b>5-Port Industrial Switch, Gigabit</b></p>	
<p><b>FNS100KW-08-AGB-M12-S</b></p> <p><b>PoE: FNS100KW-08-AGB-4P-M12-S1</b></p>	<p><b>8-Port Industrial Switch, Gigabit</b></p>	
<p><b>FNS100KW-05-AFB-M12-S2</b></p> <p><b>PoE: FNS100KW-05-AFB-4P-M12-S2</b></p>	<p><b>5-Port Industrial Switch, Fast</b></p>	
<p><b>FNS100KW-08-AFB-M12-S2</b></p> <p><b>PoE: FNS100KW-08-AFB-4P-M12-S2</b></p>	<p><b>8-Port Industrial Switch, Fast</b></p>	
<p><b>FNS100KW-05-AGB-M12-S2</b></p> <p><b>PoE: FNS100KW-05-AGB-4P-M12-S2</b></p>	<p><b>5-Port Industrial Switch, Gigabit</b></p>	
<p><b>FNS100KW-08-AGB-M12-S2</b></p> <p><b>PoE: FNS100KW-08-AGB-4P-M12-S2</b></p>	<p><b>8-Port Industrial Switch, Gigabit</b></p>	

## Product Properties

- Plug and play
- Metal shell with IP50 protection
- Operating Temperature: -40°C~75°C
- Support full duplex and half duplex mode, auto-MDI / MDI-X
- Dual power Supply: DC 12-57V redundant power input
- PoE models provide Ethernet M12 ports with 4/8 IEEE 802.3at/af PoE ports. It provides up to 30 watts of power per port, and can be used for IEEE 802.3at/af compliant powered devices (PDs), such as IP cameras, wireless access points, and IP phones.

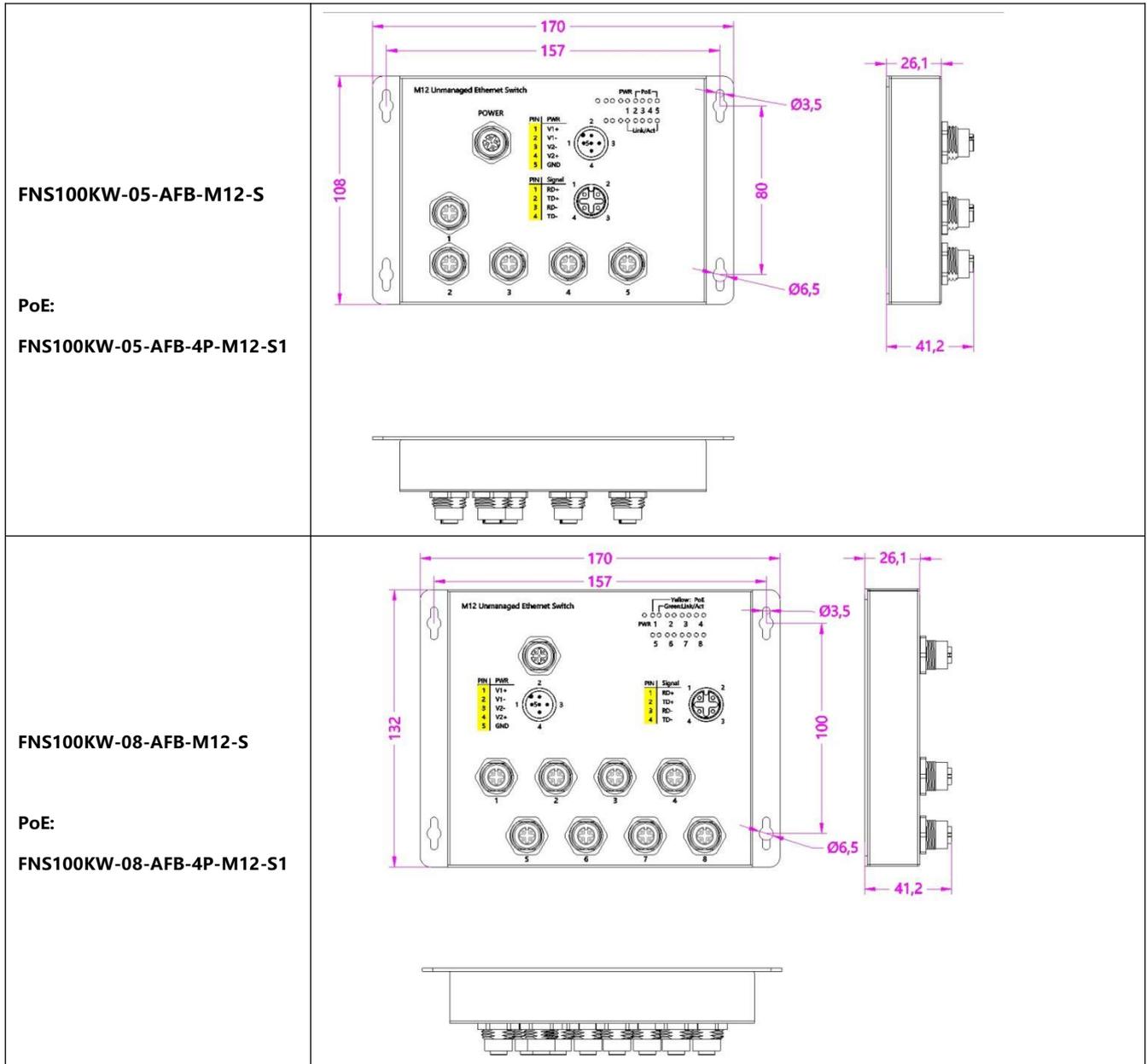
## Specifications:

Model No.	FNS100KW-05-AFB-M12-S / FNS100KW-05-AFB-4 P-M12-S1 (PoE)	FNS100KW-08-AFB-M12-S / FNS100KW-08-AFB-4 P-M12-S1 (PoE)	FNS100KW-05-AGB-M12-S / FNS100KW-05-AGB-4P-M12-S1 (PoE)	FNS100KW-08-AGB-M12-S / FNS100KW-08-AGB-4P-M12-S1 (PoE)
Ethernet Port	5 port M12 A-coded 4-pin(F)	8 port M12 A-coded 4-pin(F)	5 port M12 X-coded 8-pin(F)	8 port M12 X-coded 8-pin(F)
Power Connector	M12 A-coded 5-pin(F)			
LED Indicator	PWR、Link/ACT、PoE			
Bandwidth	1Gbps	1.6Gbps	10Gbps	16Gbps
Packet Forwarding Rate	0.74Mpps	1.19Mpps	7.44Mpps	11.9Mpps
Packet Buffer Memory	768kb	768kb	1.2Mb	2Mb
MAC Address Table	2k	2k	2k	4k
PoE Extend	4 port PoE/PoE+	8 port PoE/PoE+	4 port PoE/PoE+	8 port PoE/PoE+
Network Protocols	IEEE 802.3、IEEE 802.3u、IEEE 802.3x		IEEE 802.3、IEEE 802.3u、IEEE802.3ab、IEEE 802.3x	
Operation Mode	Ethernet port support full duplex and half duplex auto negotiation, auto-MDI / MDI-X			
Environment	Working temperature: -40 ~ 75°C Storage temperature: -40 ~ 85°C Ambient Relative Humidity: 5%~95 %( no condensation)			
Installation	Wall-mounted, with cables exiting from the front panel			
Power Input	DC 12-52V PoE DC48-57V	DC 12-52V PoE DC48-57V	DC 12-52V PoE DC48-57V	DC 12-52V PoE DC48-57V
Dimensions (mm)	170x108x41.2	170x132x41.2	170x108x41.2	170x132x41.2

## Specifications:

Model No.	FNS100KW-05-AFB-M 12-S2 / FNS100KW-05-AFB-4P -M12-S2 (PoE)	FNS100KW-08-AFB-M 12-S2 / FNS100KW-08-AFB-4P -M12-S2 (PoE)	FNS100KW-05-AGB- M12-S2 / FNS100KW-05-AGB- 4P-M12-S2 (PoE)	FNS100KW-08-AGB-M 12-S2 / FNS100KW-08-AGB-4 P-M12-S2 (PoE)
Ethernet Port	5 port M12 A-coded 4-pin(F)	8 port M12 A-coded 4-pin(F)	5 port M12 X-coded 8-pin(F)	8 port M12 X-coded 8-pin(F)
Power Connector	M12 A-coded 5-pin(F)			
LED Indicator	PWR、Link/ACT、PoE			
Bandwidth	1Gbps	1.6Gbps	10Gbps	16Gbps
Packet Forwarding Rate	0.74Mpps	1.19Mpps	7.44Mpps	11.9Mpps
Packet Buffer Memory	768kb	768kb	1.2Mb	2Mb
MAC Address Table	2k	2k	2k	4k
PoE Extend	4 port PoE/PoE+	8 port PoE/PoE+	4 port PoE/PoE+	8 port PoE/PoE+
Network Protocols	IEEE 802.3、IEEE 802.3u、IEEE 802.3x		IEEE 802.3、IEEE 802.3u、IEEE802.3ab、IEEE 802.3x	
Operation Mode	Ethernet port support full duplex and half duplex auto negotiation, auto-MDI / MDI-X			
Environment	Working temperature: -40 ~ 75°C Storage temperature: -40 ~ 85°C Ambient Relative Humidity: 5%~95 % (no condensation)			
Installation	Wall-mounted, with cables exiting from the side panel			
Power Input	DC 12-52V PoE 48-57V	DC 12-52V PoE 48-57V	DC 12-52V PoE 48-57V	DC 12-52V PoE 48-57V
Dimensions (mm)	170.1x106.5x28.9	193.8x122.9x32.8	170.1x107.9x28.9	193.8x122.9x32.8

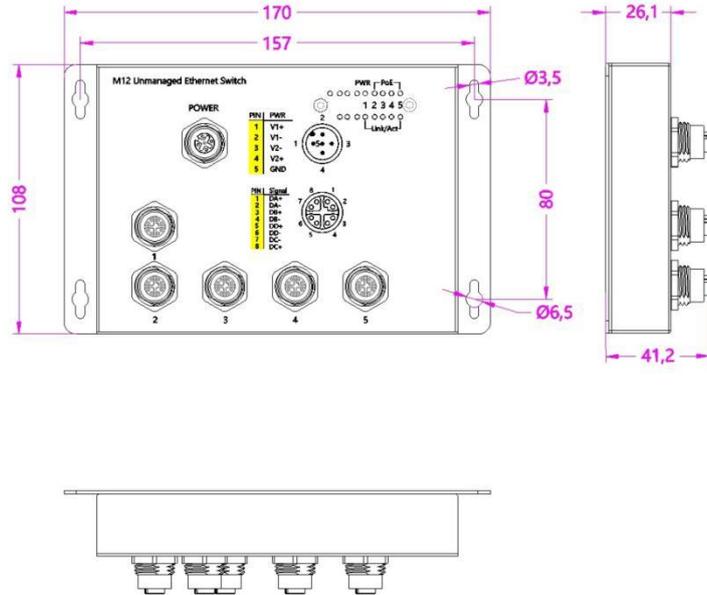
# Dimensions (mm)



FNS100KW-05-AGB-M12-S

PoE:

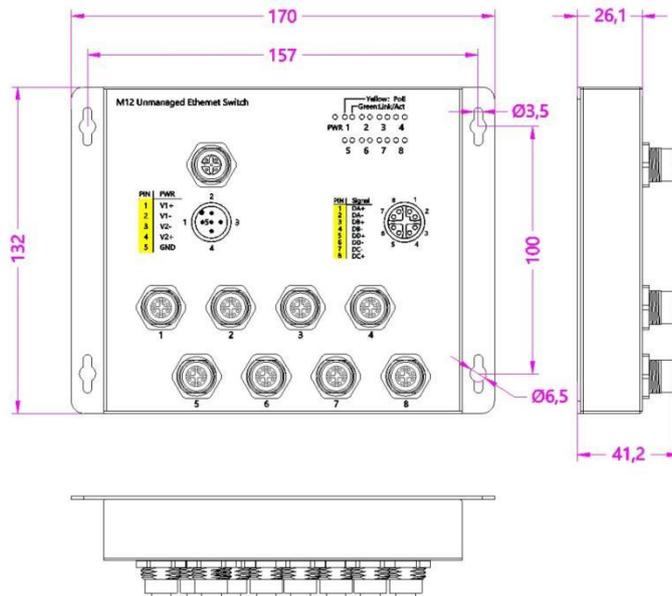
FNS100KW-05-AGB-4P-M12-S1



FNS100KW-08-AGB-M12-S

PoE:

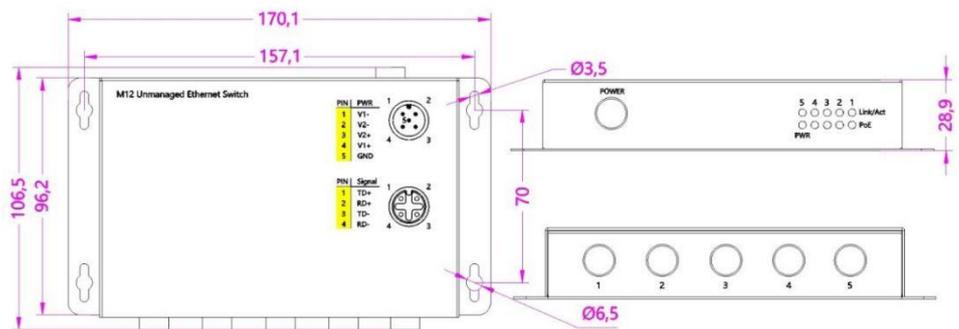
FNS100KW-08-AGB-4P-M12-S1



FNS100KW-05-AFB-M12-S2

PoE:

FNS100KW-05-AFB-4P-M12-S2



<p><b>FNS100KW-08-AFB-M12-S2</b></p> <p>PoE: <b>FNS100KW-08-AFB-4P-M12-S2</b></p>	
<p><b>FNS100KW-05-AGB-M12-S2</b></p> <p>PoE: <b>FNS100KW-05-AGB-4P-M12-S2</b></p>	
<p><b>FNS100KW-08-AGB-M12-S2</b></p> <p>PoE: <b>FNS100KW-08-AGB-4P-M12-S2</b></p>	

## Ordering Information

Model No.	Specifications
<p><b>FNS100KW-05-AFB-M12-S</b></p> <p>PoE: <b>FNS100KW-05-AFB-4P-M12-S1</b></p>	<p>Metal casing rugged unmanaged Industrial Switch, 5-Port M12 A-coded 10/100Mbps (4-pin), Power supply: DC12~52V (M12 A-coded 5-pin), work temperature: -40°C~75°C, PoE optional: 4 port PoE (DC48-57V)</p>

<p><b>FNS100KW-08-AFB-M12-S</b></p> <p><b>PoE:</b></p> <p><b>FNS100KW-08-AFB-4P-M12-S1</b></p>	<p>Metal casing rugged unmanaged Industrial Switch, 8-Port M12 A-coded 10/100Mbps (4-pin), Power supply: DC12~52V (M12 A-coded 5-pin), work temperature: -40°C-75°C, PoE optional: 8 port PoE (DC48-57V)</p>
<p><b>FNS100KW-05-AGB-M12-S</b></p> <p><b>PoE:</b></p> <p><b>FNS100KW-05-AGB-4P-M12-S1</b></p>	<p>Metal casing rugged unmanaged Industrial Switch, 5-Port M12 X-coded 10/100/1000Mbps (8-pin), Power supply: DC12~52V (M12 A-coded 5-pin), work temperature: -40°C-75°C, PoE optional: 4 port PoE (DC48-57V)</p>
<p><b>FNS100KW-08-AGB-M12-S</b></p> <p><b>PoE:</b></p> <p><b>FNS100KW-08-AGB-4P-M12-S1</b></p>	<p>Metal casing rugged unmanaged Industrial Switch, 8-Port M12 X-coded 10/100/1000Mbps (8-pin), Power supply: DC12~52V (M12 A-coded 5-pin), work temperature: -40°C-75°C, PoE optional: 8 port PoE (DC48-57V)</p>
<p><b>FNS100KW-05-AFB-M12-S2</b></p> <p><b>PoE:</b></p> <p><b>FNS100KW-05-AFB-4P-M12-S2</b></p>	<p>Metal casing rugged unmanaged Industrial Switch, 5-Port M12 A-coded 10/100Mbps (4-pin), Power supply: DC12~52V (M12 A-coded 5-pin), work temperature: -40°C-75°C, PoE optional: 4 port PoE (DC48-57V)</p>
<p><b>FNS100KW-08-AFB-M12-S2</b></p> <p><b>PoE:</b></p> <p><b>FNS100KW-08-AFB-4P-M12-S2</b></p>	<p>Metal casing rugged unmanaged Industrial Switch, 8-Port M12 A-coded 10/100Mbps (4-pin), Power supply: DC12~52V (M12 A-coded 5-pin), work temperature: -40°C-75°C, PoE optional: 8 port PoE (DC48-57V)</p>
<p><b>FNS100KW-05-AGB-M12-S2</b></p> <p><b>PoE:</b></p> <p><b>FNS100KW-05-AGB-4P-M12-S2</b></p>	<p>Metal casing rugged unmanaged Industrial Switch, 5-Port M12 X-coded 10/100/1000Mbps (8-pin), Power supply: DC12~52V (M12 A-coded 5-pin), work temperature: -40°C-75°C, PoE optional: 4 port PoE (DC48-57V)</p>
<p><b>FNS100KW-08-AGB-M12-S2</b></p> <p><b>PoE:</b></p> <p><b>FNS100KW-08-AGB-4P-M12-S2</b></p>	<p>Metal casing rugged unmanaged Industrial Switch, 8-Port M12 X-coded 10/100/1000Mbps (8-pin), Power supply: DC12~52V (M12 A-coded 5-pin), work temperature: -40°C-75°C, PoE optional: 8 port PoE (DC48-57V)</p>