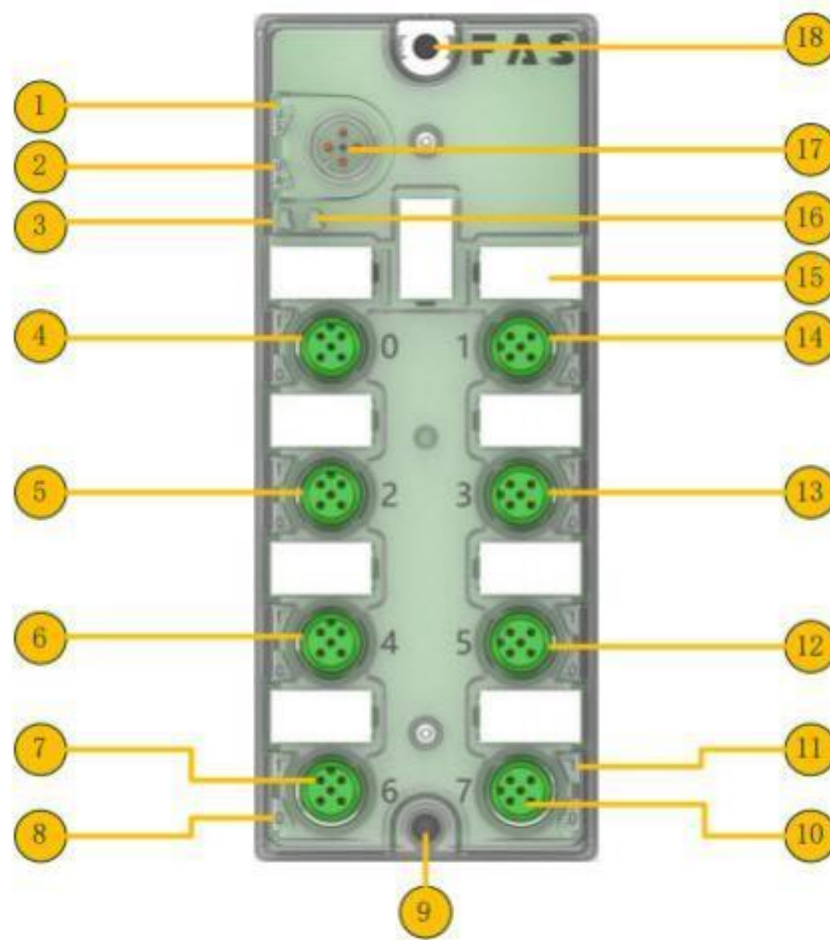


# FNI IOL-708-000-M12manual

## 1. Connection diagram

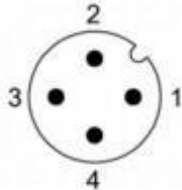
As shown in Figure 1.



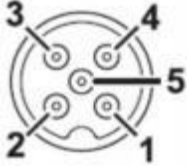
- 1 Status LEDs: Us module power supply
- 2 Status LEDs: Ua actuator power supply
- 3 Status LEDs: IO-Link communication
- 4 Analog input port 0
- 5 Analog input port 2
- 6 Analog input port 4
- 7 Analog input port 6
- 8 Status LEDs: analog input
- 9 Fixing hole

- 10 Analog Input Port 7
- 11 Status LED: Reserved
- 12 Analog Input Port 5
- 13 Analog Input Port 3
- 14 Analog Input Port 1
- 15 Tags
- 16 Status LED: Module Abnormal
- 17 IO-Link interface
- 18 Fixing holes and grounding points

## 2. IO-Link Interface definition

IO-Link(Class A)	Pin	Function	line color
	1	Us module power supply 24V	Brown
	2	Ua actuator power supply 24V	White
	3	Power supply negative 0V	Blue
	4	C/Q IO-Link	Black

## 3. Analog input Interface definition

IO-Link(Class A)	Pin	Function	line color
	1	Us Power 24V	Brown
	2	Analog input positive	White
	3	Power supply negative 0V	Blue
	4	Analog input negative	Black
	5	Not connected	-

### 3.1 Sensor wiring requirements:

#### 1. Sensor 3-wire type:

- a. Pin 1 is connected to the positive pole of the sensor power supply
- b. Pin 2 is connected to sensor signal
- c. Pins 3 and 4 are connected to the negative pole of the sensor power supply at the same time

#### 2. Sensor 4-wire type:

- a. Pin 1 is connected to the positive pole of the sensor power supply
- b. Pin 2 is connected to the positive pole of the sensor signal
- c. Pin 3 is connected to the negative pole of the sensor power supply
- d. Pin 4 is connected to the negative pole of the sensor signal

## 4. IO-Link data

### 4.1 Parameter

Data transmission baud rate	COM2 (38.4kbit/s)
Minimum cycle time	3ms
Process data cycle time	3ms
Process data length	16 byte input

### 4.2 Process data

Analog output port	Input data	Data range	Analog range
1	Byte1~Byte0	0~65535	0~10V
2	Byte3~Byte2	0~65535	0~10V
3	Byte5~Byte4	0~65535	0~10V
4	Byte7~Byte6	0~65535	0~10V
5	Byte9~Byte8	0~65535	0~10V
6	Byte11~Byte10	0~65535	0~10V
7	Byte13~Byte12	0~65535	0~10V
8	Byte15~Byte14	0~65535	0~10V

### 4.3 Parameter data/request data

	SPDU		Object name	length	Scope	Defaults
	Index	Subindex				
	/	/	Supplier ID	2	/	0x0454
	/	/	Device ID	3	/	0x099CE2
Identification data	0x10	0	Supplier name	19	Read only	FAS (Fujian) Co., LTD
	0x11	0	Supplier text	16		<a href="http://www.fas-elec.com">www.fas-elec.com</a>
	0x12	0	Product name	13		FNI IOL-708-000-M12
	0x13	0	Product ID	5		00BB16
	0x14	0	Product text	44		IO-Link M12 8AI 0... 10V
	0x16	0	Hardware version	3		1.0
	0x17	0	Software version	3		1.0

## 4.4 Error code

Device app error:

0x80

Additional code:

0x11 Index not available

0x12 Subindex unavailable

0x30 value out of range

## 4.5 Event

Class/Qualifier			Code(High Bit + Low Bit)			
Pattern	Type	Instance				
Appear	Error	AL	Hardware	Power supply	Low voltage	U2=Power supply
0xC0	0x30	0x03	0x5000	0x0100	0x0010	0x0002
0xF3			0x5112			
Disappear	Error	AL	Hardware	Power supply	Low voltage	U2=Power supply
0x80	0x30	0x03	0x5000	0x0100	0x0010	0x0002
0xB3			0x5112			
Appear	Error	AL	Hardware	Power supply	Peripheral power supply	
0xC0	0x30	0x03	0x5000	0x0100	0x0060	
0xF3			0x5160			
Disappear	Error	AL	Hardware	Power supply	Peripheral power supply	
0x80	0x30	0x03	0x5000	0x0100	0x0060	
0xB3			0x5160			