

# FNI IOL-206-S01-M12 Manual

## 1. Connection diagram

as shown in picture 21

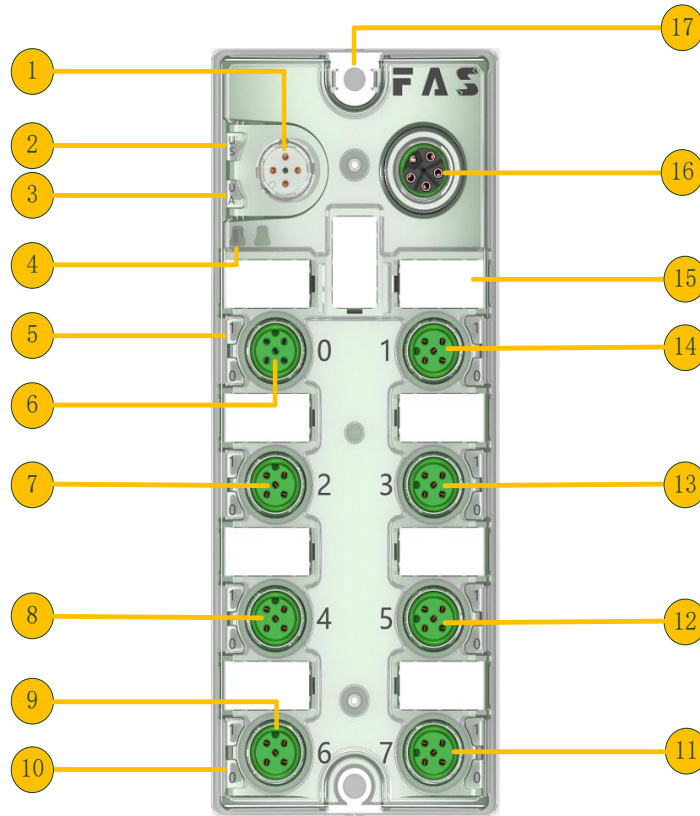


photo 1

1. IO-Link prot	10. status LED: Pin4
2. Status LED: module power	11. Digital I/O port 7
3. status LED: Actuator power s	12. Digital I/O port 5
4. status LED: IO-Link	13. Digital I/O port 3
5. status LED: Pin2	14. Digital I/O port 1
6. Digital I/O port 0	15. Label
7. Digital I/O port 2	16. Auxiliary power interface
8. Digital I/O port 4	17. FE
9. Digital I/O port 6	

## 2. IO-Link interface diagram

as shown in picture 2.

M12, A类, 公头 M12 A code male

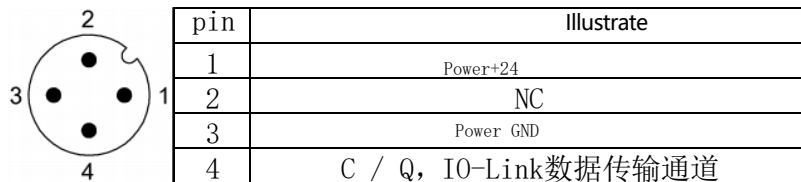


图 2

## 3. Auxiliary power interface diagram

As shown in Figure

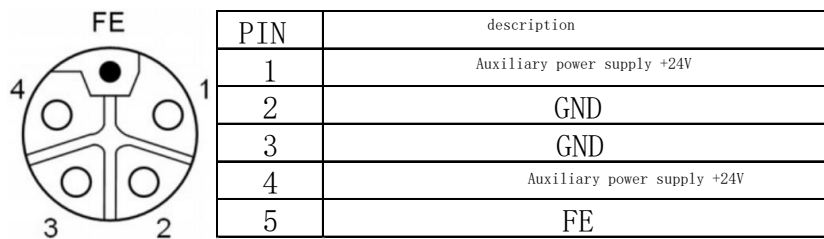


Photo 3

## 4. Digital Input Port Connection Diagram

As shown in Figure 4.

Digital input/output port (M12, type A, female)

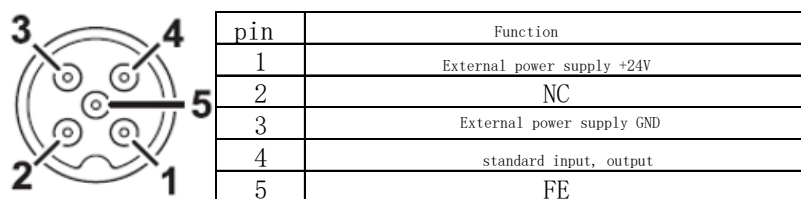


Photo 4

## 5. IO-Link data

### 5.1 parameter

As shown in Table 1-1

photo 1-1

Data transmission baud rat	COM2 (38.4kbit/s)
Minimum cycle time	3ms
Process data cycle time	3ms, consistent with minimum
Process data length	4 bytes cycle time input, 2 bytes output

### 5.2 Process data/output data

As shown in Figure 5. Note: 0 is MSB, 1 is LSB.

	0								1							
port	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
describe	output port7 Pin4	Output port6 Pin4	output port□5 Pin4	output port 4 Pin4	Output port3 Pin4	output port2 Pin4	Output port1 Pin4	output port0 Pin4	reserved							

photo 5

### 5.3 Process data/output data

As shown in Figure 6. Note: 0 is MSB, 1 is LSB.

	0								1								2								3							
way	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
describe	input port 7 Pin4	input port6 Pin4	input port5 Pin4	input port4 Pin4	input port3 Pin4	input port2 Pin4	input port1 Pin4	input port0 Pin4	port7power short circuit	port6power short circuit	port5power short circuit	port4power short circuit	port3power short circuit	port2power short circuit	port1power short circuit	port0power short circuit	reserved								reserved							

Photo 6

## 5.4 parameter data/request data

As shown in Figure 7.

	DPP	SPDU		object name	length	scope	Defaults
	index	index	subindex				
parameter identifying data				supplierID	2		0x0454
				equipmentID	3		0x0994EC
		0x10	0	Supplier name	19	read only	FuYanSheng Electronic (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-236-S01-M12
		0x13	0	product ID	5		00BF31
		0x14	0	product text	44		IO-Link 8DI/DO with Auxiliary power
		0x16	0	hardware version	3		20220226
	0x17	0	Firmware version	3	2.01		
parameter data		0x40	0	bit inversion	1	00-FF	0x00
		0x41	0	direction	1	00-FF	0x00

Photo 7

Note: 0x40 set bit reverse: 0-bit is not reversed, 1-bit is reversed, such as external input is 0x0000, when 0x40 is 0x00, the value is 0x00 (not reversed), when 0x40 is 0xFF, the value is 0x00 0xFF (reverse).

0x41 Set direction: 0-input, 1-output.

## 5.5 error

As shown in Figure 4.

error code	additional code
Device application error 0x80	Index not available 0x11
	Subindex is not available 0x12
	value out of range 0x30

photo 4

## 5.6 event

As shown in Figure 5.

class/qualifier			Code (high + low)			
model	type	case	Device hardware	powered by	Power supply low voltage	U2-powered by +24V
Appear	error	AL	0x5000	0x0100	0x0010	0x0002
		0xF3	0x5112			
disappear	error	AL	0x5000	0x0100	0x0010	0x0002
		0xB3	0x5112			
Appear	error	AL	0x5000	0x0100	Peripheral power supply	
		0xF3	0x5160			
disappear	error	AL	0x5000	0x0100	Peripheral power supply	
		0xB3	0x5160			

photo 5