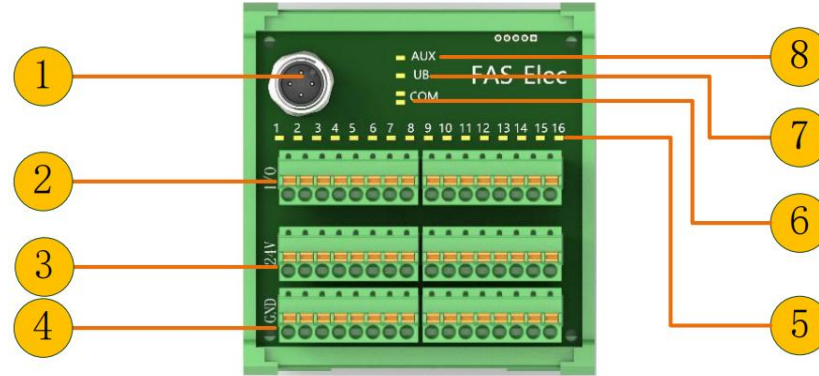


## FNI\_IOL-106-001-K024 manual

### 1. Connection diagram

As shown in Figure 1.



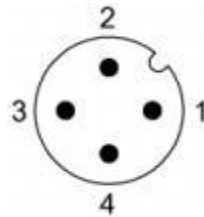
Picture 1

- |                               |                                    |
|-------------------------------|------------------------------------|
| 1 IO-Link interface           | 5 Status LED: Digital I/O point 16 |
| 2 Digital I/O Terminal Blocks | 6 Status LEDs: IO-Link             |
| 3 24V terminal block          | 7 Status LED: Power                |
| 4 GND terminal                | 8 Status LEDs: Actuator            |

### 2. IO-Link interface diagram

As shown in Figure 2.

M12, class A, male



Pin	Illustrate
1	Power supply, +24V
2	NC
3	GND
4	C/Q, IO-Link data transfer channel

Picture 2

### 3. IO-Link data

#### 3.1 Parameter

As shown in Table 1-1.

Surface 1-1

Data transmission baud rate	COM2 (38.4kbit/s)
Frame type	3ms
Minimum cycle time	3ms, consistent with minimum cycle time
Process data cycle time	2 bytes input

## 3.2 Process data/input data

As shown in Figure 3.

Describe	0								1							
	Bit 7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Digital input point 8	Digital input point 7	Digital input point 6	Digital input point 5	Digital input point 4	Digital input point 3	Digital input point 2	Digital input point 1	Digital input point 16	Digital input point 15	Digital input point 14	Digital input point 13	Digital input point 12	Digital input point 11	Digital input point 10	Digital input point 9	

Picture 3

If the assigned starting address is 64, then the input address of the first point is I64.0, and the address of the 16th point is I65.7.

## 3.3 Process data/output data

No such part

## 3.4 Parameter data/request data

As shown in Figure 5.

	DPP	SPDU		Object name	length	Scope	Defaults
	Index	Index	Subindex				
Identification data				Supplier ID	2		0x0454
				Device ID	3		0x099CDD
		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-106-001-K024
		0x13	0	Product ID	5		00BH12
		0x14	0	Product text	44		IO-Link IP20 16DI
		0x16	0	Hardware version	3		20191205
	0x17	0	Firmware version	3	2.01		
Parameter data		0x40	0	Supplier ID	2	0000-FFFF	0x0000

Picture 5

Note:

0x40 Set bit reverse: 0-bit is not reversed, 1-bit is reversed, such as external input is 0x0000, when 0x40 is 0x0000, the value is 0x0000 (not reversed), when 0x40 is 0xFFFF, the value is 0xFFFF (reverse).

### 3.5 Mistake

As shown in Figure 6.

Error code	Additional code
Device app error 0x80	Index unavailable 0x11
	Subindex unavailable 0x12
	Value out of range 0x30

Picture 6

### 3.6 Event

As shown in Figure 7.

Class/Qualifier			Code(High Bit + Low Bit)			
Pattern	Type	Instance				
Appear	Error	AL	Hardware	Powered by	Power supply low voltage	U2=Power supply+24V
0xC0	0x30	0x03	0x5000	0x0100	0x0010	0x0002
0xF3			0x5112			
Disappear	Error	AL	Hardware	Powered by	Power supply low voltage	U2=Power supply+24V
0x80	0x30	0x03	0x5000	0x0100	0x0010	0x0002
0xB3			0x5112			
Appear	Error	AL	Hardware	Powered by	Peripheral power supply	
0xC0	0x30	0x03	0x5000	0x0100	0x0060	
0xF3			0x5160			
Disappear	Error	AL	Hardware	Powered by	Peripheral power supply	
0x80	0x30	0x03	0x5000	0x0100	0x0060	
0xB3			0x5160			

Picture 7