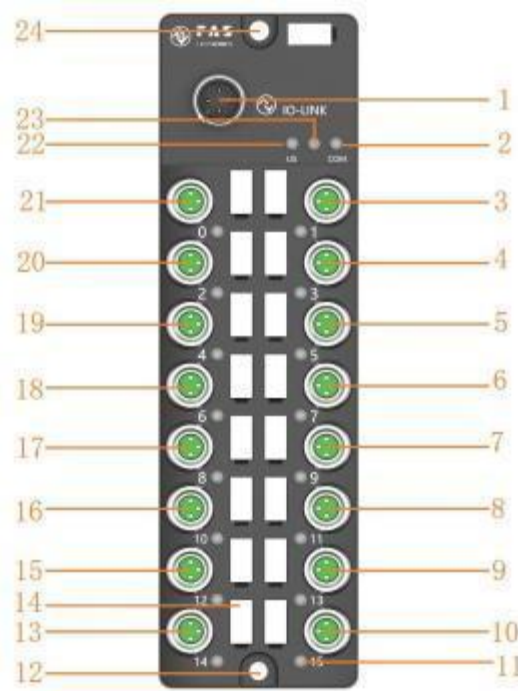


IOL-116-001-M08 manual

1. Connection diagram

As shown in Figure 1.



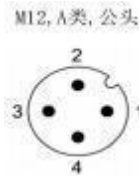
Picture 1

- | | |
|---|----------------------------------|
| 1. IO-Link interface | 13 Standard output port 14 |
| 2. LED: Communication/Module | 14 Label |
| 3. Standard output port 1 | 15 Standard output port 12 |
| 4. Standard output port 3 | 16 Standard output port 10 |
| 5. Standard output port 5 | 17 Standard output port 8 |
| 6. Standard output port 7 | 18 Standard output port 6 |
| 7. Standard output port 9 | 19 Standard output port 4 |
| 8. Standard output port 11 | 20 Standard output port 2 |
| 9. Standard output port 13 | 21 Standard output port 0 |
| 10 Standard output port 15 | 22 LED: Controller power US |
| 11 Port LED: Standard Input Port 15, Pin4 | 23 LED: Actuator power supply UA |
| 12 Fixing holes | 24 F ixing hole |

2. IO-Link interface diagram

As shown in picture 2.

M12, A code, male



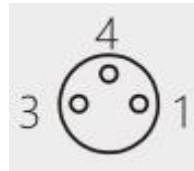
Pin	Function
1	Power controller, +24 V, max2000 mA
2	NC
3	GND
4	C/Q, IO-Link data transmission channel

Picture 2

3. Standard output port connection diagram

As shown in picture 3.

M8 female



Pin	Function
1	+24 V, 200 mA
3	GND
4	Input signal PNP

Picture 3

4. IO-Link data

4.1 Parameter

As shown in Table 1-1.

Surface 1-1

Data transmission baud rate	COM2 (38 4kbit/s)
Frame type	2 V
Minimum cycle time	3ms
Process data cycle time	3 ms, Consistent with minimum cycle time
Process data length	2

4.2 Process data/output data

No output data is defined.

4.3 Process data/input data

As shown in picture 4.

Byte	0								1							
Bit	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Describe	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4	Pin4
	PORT15	PORT14	PORT13	PORT12	PORT11	PORT10	PORT9	PORT8	PORT7	PORT6	PORT5	PORT4	PORT3	PORT2	PORT1	PORT0

Picture 4

4.4 Parameter data/request data

As shown in picture 5.

	DPP	SPDU		Object name	length	scope	Defaults
	Index	Index	Subindex				
Identifying data				Supplier ID	2	Read only	0x0454
				Device ID	3		0x0994D5
		0x10	0	Supplier name	18		FAS(Fujian) Co., LTD
		0x11	0	supplier text	16		www.fas-elec.com
		0x12	0	product name	20		FNI IOL-116-001-MOS
		0x13	0	Product ID	6		00B316
		0x14	0	Product text	12		IO-Link Junction box 16DI PNP
		0x16	0	Hardware version	3		20211110
	0x17	0	Firmware version	3	2.01		
Parameter data		0x40	0	bit reversal	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).

4.5 Mistake

As shown in picture6.

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

4.6 Event

Picture 6

As shown in picture7.

Class/Qualifier			Code (high + low)			
Model	Type	Example				
Appear	Mistake	AL	Device hardware	Powered by	Power supply low voltage	U2=Power supply+24V
0xC0	0x30	0x03	0x5000	0x0100	0x0010	0x0002
0xF3			0x5112			
Disappear	Mistake	AL	Device hardware	Powered by	Power supply low voltage	U2=Power supply+24V
0x80	0x30	0x03	0x5000	0x0100	0x0010	0x0002
0xB3			0x5112			
Appear	Mistake	AL	Device hardware	Powered by	Peripheral power supply	
0xC0	0x30	0x03	0x5000	0x0100	0x0060	
0xF3			0x5160			
Disappear	Mistake	AL	Device hardware	Powered by	Peripheral power supply	
0x80	0x30	0x03	0x5000	0x0100	0x0060	
0xB3			0x5160			

Picture 7