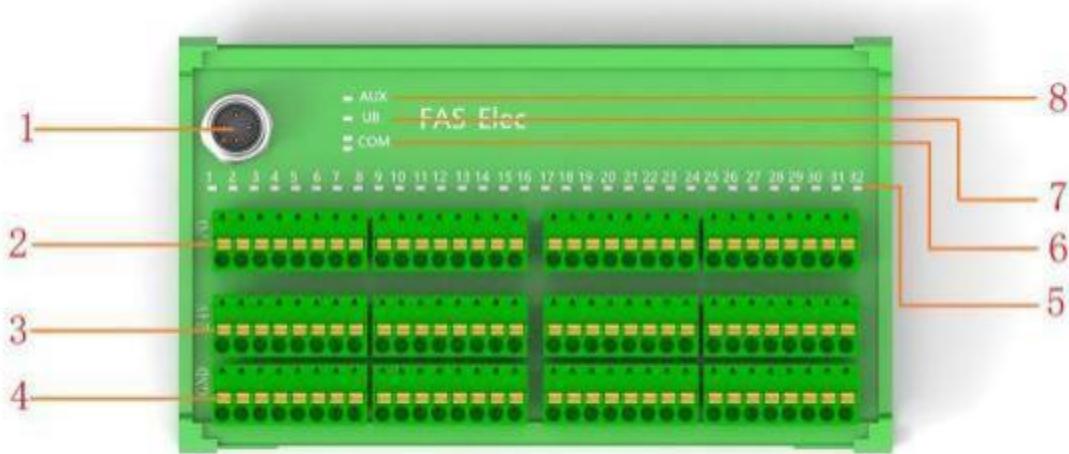


FNI IOL-106-004-K20 manual

1. Connection diagram

As shown in Figure 1.



Picture 1

- | | |
|-------------------------------|------------------------------------|
| 1 IO-Link interface | 5 Status LED: Digital I/O point 32 |
| 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	Actuator power supply, +24V
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	2 V						
Minimum cycle time	3ms						
Process data cycle time	3ms, consistent with minimum cycle time						
Process data length	4 bytes input						

3.2 Process data/input data

As shown in Figure 3.

	0								1							
Bit	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Describe	Digital input point 24	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 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
	2								3							
Bit	7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Describe	Digital input point 23	Digital input point 22	Digital input point 21	Digital input point 20	Digital input point 19	Digital input point 18	Digital input point 17	Digital input point 32	Digital input point 31	Digital input point 30	Digital input point 29	Digital input point 28	Digital input point 27	Digital input point 26	Digital input point 25	Digital input point 0

Picture 3

E. g:

The input start address assigned in the configuration project is 64, then the first point address is 64.0

The 32nd point address is 67.7.

3.3 Parameter data/request data

As shown in Figure 4.

	DPP	SPDU		Object name	length	Scope	Defaults
		Index	Subindex				
				Supplier ID	2		0x0454
				Device ID	3		0x099CE8
Identification data	0x10	0	Supplier name	19	Read only	FAS(Fujian) Co., LTD www.fas-elec.com FNI IOL-106-004-K20 00BS13 IO-Link IP20 NPN 32DI 20200529	
		0	Supplier text	16			
		0	Product name	13			
		0	Product ID	6			
		0	Product text	44			
		0	Hardware version	8			
	0x17	0	Firmware version	4		2.00	
Parameter data	0x40	0	Bit reversal	4	00000000-FFFFFFFFFF	0x00000000	

Note:::

Picture 4

0x40 Set bit reverse: 0-bit is not reversed, 1-bit is reversed, such as external input is 0x00000000, when 0x40 is 0x00000000, the value is 0x00000000 (not reversed), when 0x40 is 0xFFFFFFFF, the value is 0xFFFFFFFF (reverse).

3.4 Mistake

As shown in Figure 5.

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

3.5 Event

Picture 5

As shown in Figure 6.

Class/Qualifier			Code(High Bit + Low Bit)			
Pattern	Type	Instance	Hardware	Powered by	Power supply low voltage	U2=Power supply+24V
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 6