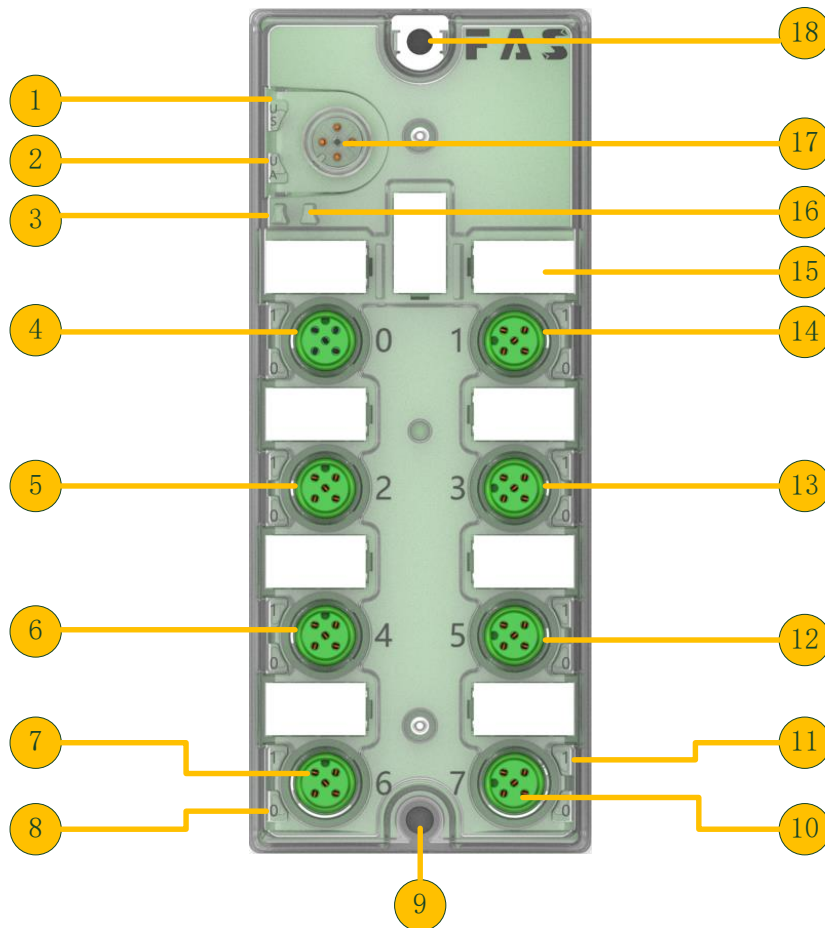


FNI IOL-136-001-M12 instructions

1.Connection diagram

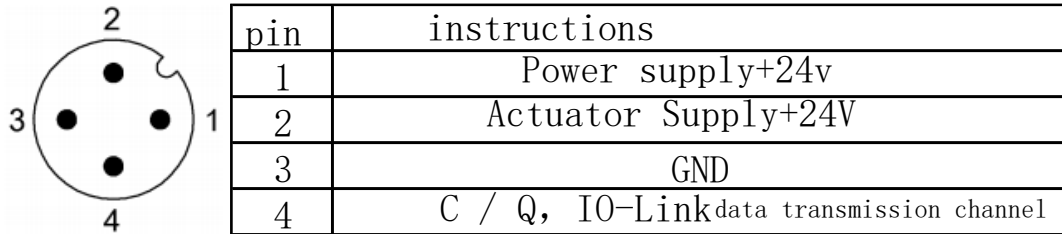
As show at photo



- | | |
|---------------------------------------|--|
| 1 Status LED: Power | 10 digital I/O port 7 |
| 2 Status LED: Actuator power supply | 11 Status LED: digital I/O port 4 Pin2 |
| 3 state LED: IO-Link | 12 digital I/O port 5 |
| 4 digital I/O port 0 | 13 digital I/O port 3 |
| 5 digital I/O port 2 | 14 digital I/O port 1 |
| 6 digital I/O port 4 | 15 Label |
| 7 digital I/O port 6 | 16 state LED:abnormal |
| 8 Status LED: Digital I/O Port 4 Pin4 | 17 IO-Link interface |
| 9 Fixing hole | 18 Fixing hole |

2. IO-Link interface diagram

M12, A-code, male



3. Digital port connection diagram

As shown in Figure 3.

Digital output port (M12, Class A, female)

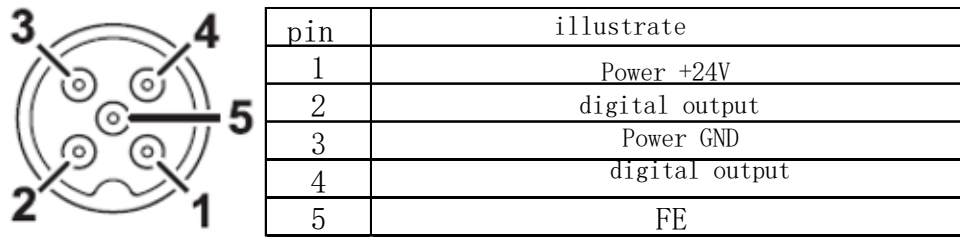


photo 3

4. IO-Link data

4.1 parameter

As shown in Table 1-1.

table 1-1

| | |
|-----------------------------|--|
| Data transmission baud rate | COM2 (38.4kbit/s) |
| Minimum cycle time | 3ms |
| Process data cycle time | 3ms, Corresponds to the minimum cycle time |
| Process data length | 2 Byte output |

4.2 Process date/input data

none

4.3 Process date/ouput

as show in figure 5

| | 0 | | | | | | | | 1 | | | | | | | |
|----------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| port | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| describe | output port 7 Pin4 | output por6 Pin4 | output por5 Pin4 | output por4 Pin4 | Output por3 Pin4 | OUTput por2 Pin4 | OUTput por1 Pin4 | output por0 Pin4 | output por7 Pin2 | output por6 Pin2 | output por5 Pin2 | output por4 Pin2 | output por3 Pin2 | output por2 Pin2 | output por1 Pin2 | output por0 Pin2 |

Figure 5

For example: the assigned starting address is 64, then the port 0 Pin2 is 65.0, and the port 0 Pin4 is 64.0.

4.4parameter data/request data As shown in Figure 6

| | DPP | SPDU | | Object name | length | Scope | Defaults |
|----------------------------|-------|-------|----------|---------------|--------|-----------|--|
| | Index | Index | SubIndex | | | | |
| Parame Identification data | | | | SupplierID | 2 | Read only | 0x0454 |
| | | | | DeviceID | 3 | | 0x0994C7C |
| | | 0x10 | 0 | Supplier name | 19 | | FAS (Fujian) Co., LTD |
| | | 0x11 | 0 | Supplier text | 16 | | www.fas-elec.com |
| | | 0x12 | 0 | Product name | 13 | | FNI IOL-236-000-M12 |
| | | 0x13 | 0 | ProductID | 5 | | 00B932 |
| | | 0x14 | 0 | Product text | 44 | | IO-Link M12 NPN 16 DO |
| | | 0x16 | 0 | Hardware | 3 | | 20220117 |
| | 0x17 | 0 | Firmware | 3 | 2.01 | | |
| Parame data | | | | | | | |

Figure 6

4.5 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 |

Figure 7

4.6 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 | | | |

Figure 8