

PRODUCT

USE INSTRUCTIONS

Ordering code: 0AC021

Part number: FNI IOL-712-000-K023

Type: 1AI, 4~20 mA

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■Intended use

This manual describes the module as a decentralized input and output for connection to an industrial network.

■Install and start

Things to note!

Installation and start-up may only be performed by trained personnel. A qualified individual is one who is familiar with the installation and operation of the product and has the necessary qualifications to perform such operations. Any damage caused by unauthorized operation or illegal and improper use is not covered by the manufacturer's warranty. The equipment operator is responsible for ensuring that appropriate safety and accident prevention regulations are observed.

■Corrosion resistance

Things to note!

FNI modules generally have good chemical and oil resistance characteristics. When used in corrosive media (such as high concentrations of chemicals, oils, lubricants and coolants (that is, very low water content)), the above media must be checked and confirmed before the compatibility of the corresponding application materials. If a module fails or is damaged due to such corrosive media, a defect claim cannot be made.

■Hazardous voltage

Things to note!

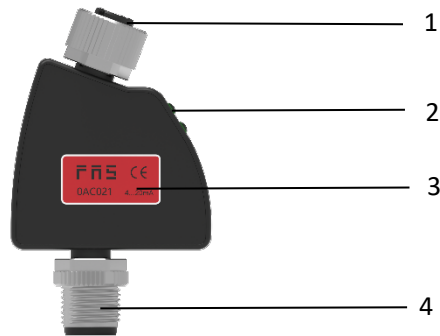
Before using the device, disconnect all power sources!

■General security

Debugging and inspection	Fault	Owner/Operator Obligations	Intended use
Before debugging, the contents of the user manual should be read carefully.	If a defect or equipment failure cannot be corrected, operation of the equipment must be stopped to avoid possible damage caused by unauthorized use.	This device is an EMC Class A product. This device generates RF noise	·The warranty coverage and limited liability statement provided by the manufacturer do not cover damage caused by: ·Unauthorized tampering operations ·Improper use and operation ·Usage, installation and operation that are inconsistent with the instructions and explanations provided in the user manual
This system is not intended to be used in environments where the safety of personnel depends on the functionality of the equipment.	Intended use can only be ensured after the housing is fully installed.	The owner/operator must take appropriate precautions when using this equipment.	
		This device may only be operated from a power source that is suitable for this device and may only be connected to cables approved for the purpose	

1.Component function description

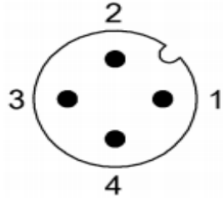
1.1 Overall introduction to the module



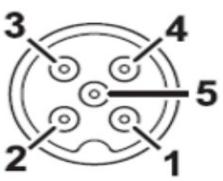
Serial number	1	2	3	4
Name	Analog input port	Status LED: Power, Communication	Label	IO-Link interface

2.Interface definition

2.1 IO-Link interface (M12 A-coded)

IO-Link(Class A)	Pin	Function	line color
	1	Power supply positive 24V	Brown
	2	-	White
	3	Negative power supply 0V	Blue
	4	C/Q IO-Link	Black

2.2 Analog input interface definition

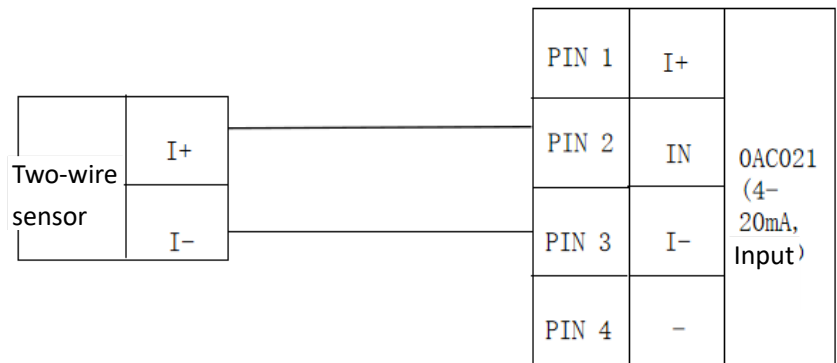
IO-Link(Class A)	Pin	Function	line color
	1	Power supply positive 24V	Brown
	2	Analog input	White
	3	Negative power supply 0V	Blue
	4	-	Black
	5	-	-

2.3 Status LED meter

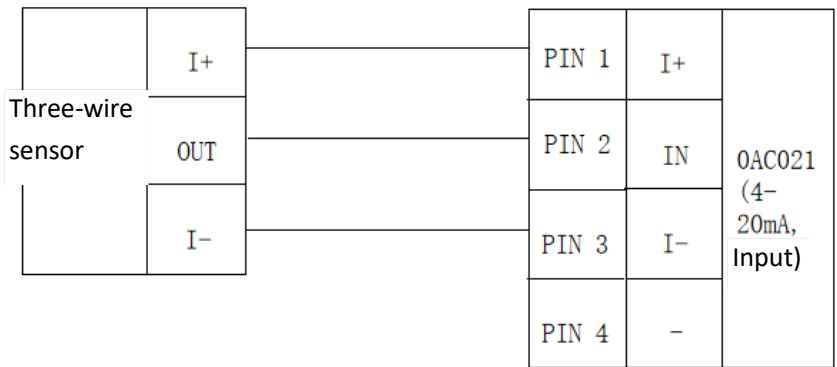
Status LED	Status	Describe
Us	Steady green	Module power supply is normal
	Destroy	Module is not powered
COM	Steady green	Communication abnormality
	Flashing green	Communication is normal

2.4 Wiring requirements

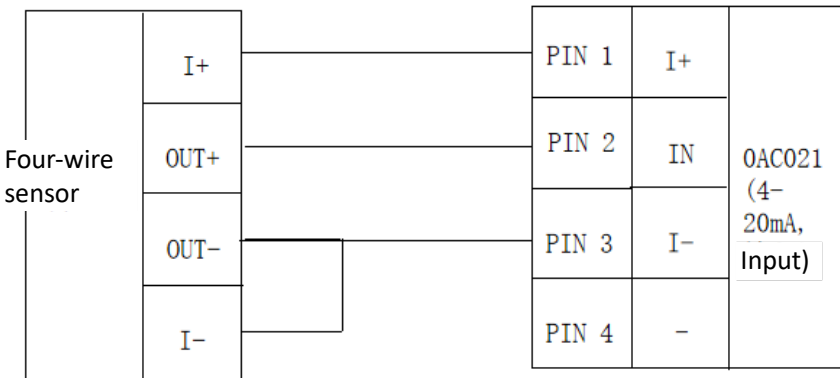
1、Two-wire system:



2、Three-wire system:

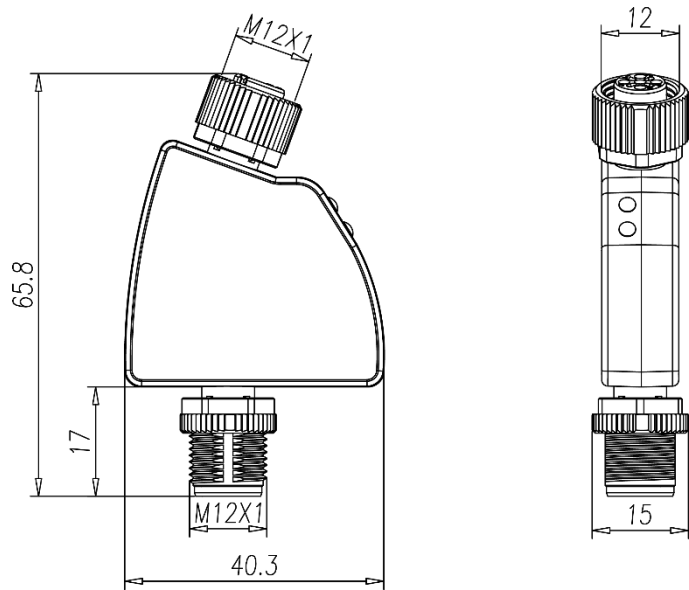


3、Four wire system:



2.5 Mechanical dimensions

Project	Specification
Dimensions (width x height x depth)	40.3MMx65.8MMx15MM



3.IO-Link data

3.1 Communication parameters

Parameter	Content
Data transmission baud rate	COM2 (38.4kbit/s)
Minimum cycle time	3ms
Process data cycle time	3ms
Process data length	2-byte input

3.2 Process data

Byte 0								Byte 1							
7	6	5	4	3	2	1	0	7	6	5	4	3	2	1	0
Analog input temperature value															

Note: 0~20mA corresponds to 0~65535

3.3 Service data

	SPDU		Object name	length (byte)	Scope	Default value
	Index	Subindex				
	/	/	Supplier ID	2	/	0x0454
	/	/	Device ID	3	/	0x099CE2
Identification data	0x10	0	Supplier name	19	Read only	FAS(Fujian)Co.,LTD
	0x11	0	Supplier text	16		www.fas-elec.com
	0x12	0	Product name	13		FNI IOL-712-000-K023
	0x13	0	Product ID	5		0AC021
	0x14	0	Product text	44		IO-Link M12 1AI 4...20mA
	0x16	0	Hardware version	3		2.1
	0x17	0	Software version	3		2.01

3.4 Error code

Error code	Additional code
Device application error 0x80	Index not available 0x11
	Subindex not available 0x12
	Value out of range 0x30

3.5 Event

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

3.6 Ordering information

Product ordering code	Order code
FNI-IOL-712-000-K023	0AC021

■ High Quality Product / Sincere Service



경기도 성남시 중원구 사기막골로 124

SKn 테크노파크 메가동 303 호

E-mail: sales@creken.com www.creken.com



FAS / Factory Automation Solution
No. 33 Liuqiao Road, Shangjie Town,
Minhou County, Fujian Province
www.faselec.com