




FAS IOL-716 Signal Converters Module



FAS IOL-716 Signal Converters Module Instructions

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FAS IOL-716 Signal Converters Module



Specifications

- Ordering Code: 0AC041
- Part Number: FNI IOL-716-000-K023
- Type: 1AIPT100



Security

Expected use

This manual describes as decentralized input and output modules for connecting to an industrial network.

Installation and start-up

Precautions!

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

Precautions!

FNI modules generally have good chemical and oil resistance. When used in corrosive media (e.g. high concentrations of chemicals, oils, lubricants, coolants and other material media (i.e. very low water content), these media must be checked before the corresponding application material compatibility. If a module fails or is damaged due to this corrosive medium, a defect claim cannot be made.

Dangerous voltage

Precautions!

Disconnect all power before using the device!

General security

Debugging and inspection	Trouble	Owner/operator obligations	Expected use
Before debugging, read the user manual carefully.	<p>If the defect or equipment failure cannot be corrected, the operation of the equipment must be stopped to avoid damage that may be caused by unauthorized use.</p>	<p>This equipment is an EMC Class A compliant product. This device produces RF noise.</p>	
This system cannot be used in an environment where the safety of personnel depends on the functionality of the equipment.	Only after the housing is fully installed can the intended use be assured.	<p>The owner/operator must take appropriate precautions to use this equipment.</p> <p>This device can only use the power supply that matches this device, and can only connect cables approved for application.</p>	

Component functional description

Module overview



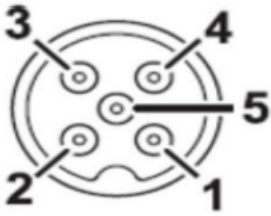
Serial No.	1	2	3	4
Name	Analogue input port	Status LED: Power, Communication	Labels	IO-Link interface

Interface definition

IO-Link interface (M12 A-coded)

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

Analogue input interface definition

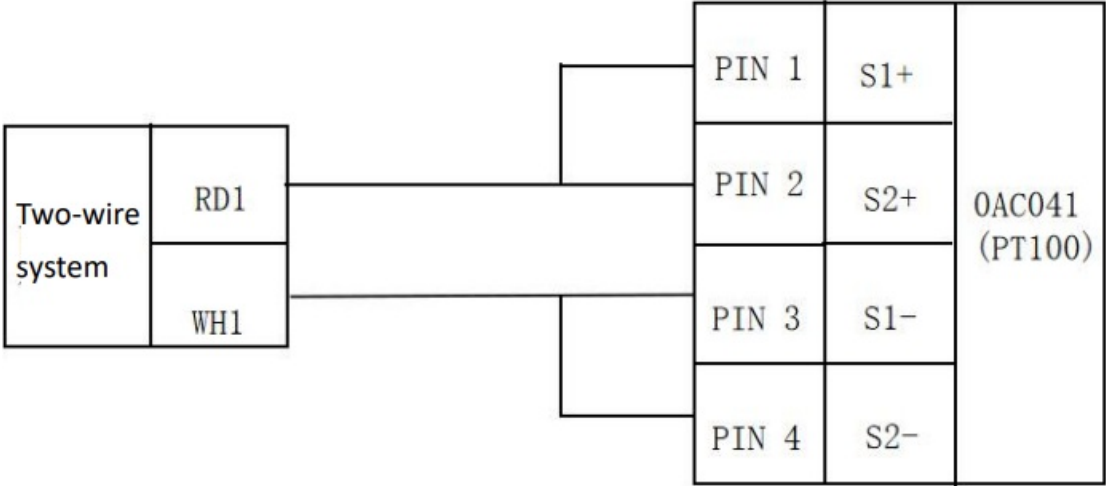
IO-Link(Class A)	Pin	Function	Wire color
	1	S1+	Brown
	2	S2+	White
	3	S1-	Blue
	4	S2-	Black
	5	-	-

Status LED meter

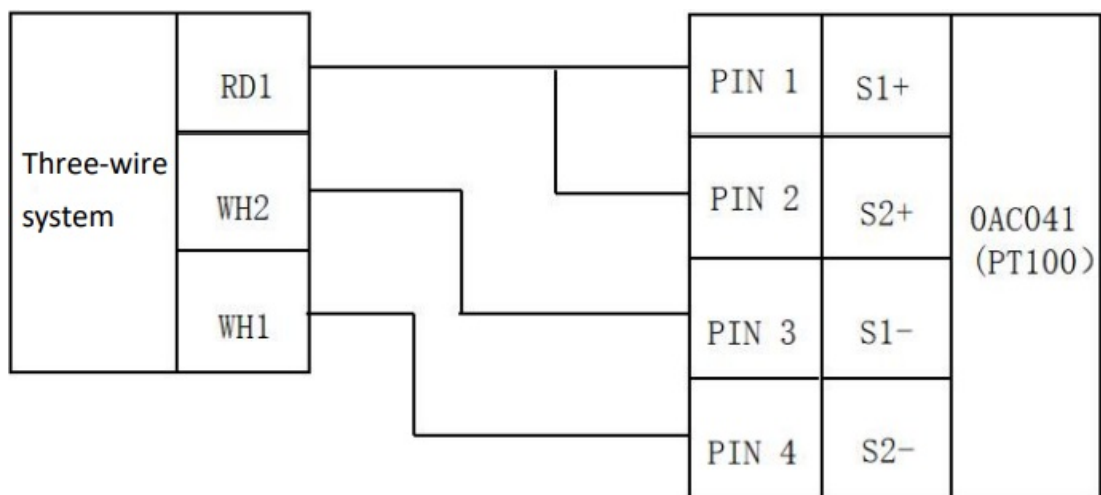
Status LED	State	Description
Us	Green always on	Module power supply is normal
	Closure	Module is not powered
COM	Green always on	Communication abnormality
	Green flashing	Communication is normal

Wiring requirements

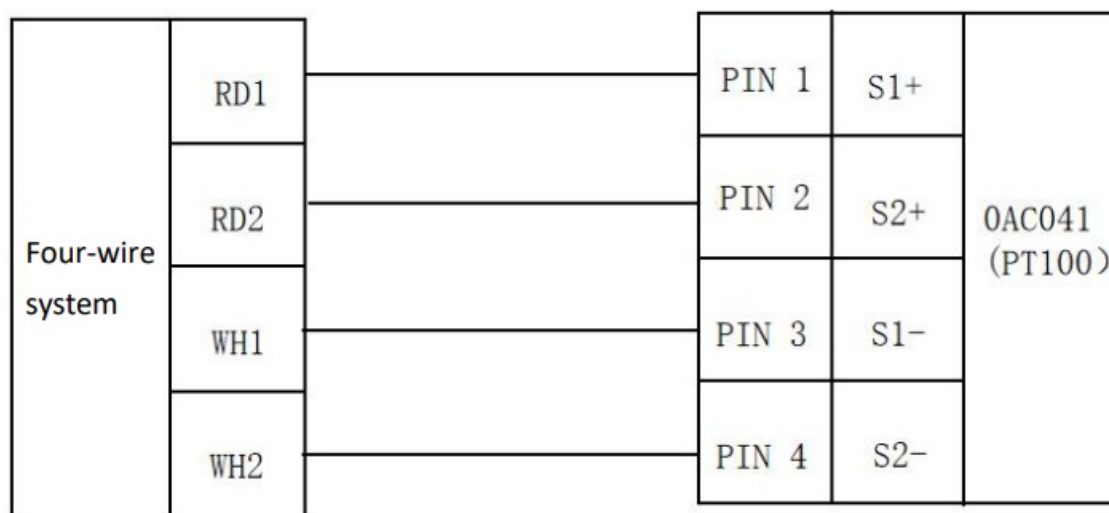
1. Two-wire system



2. Three-wire system

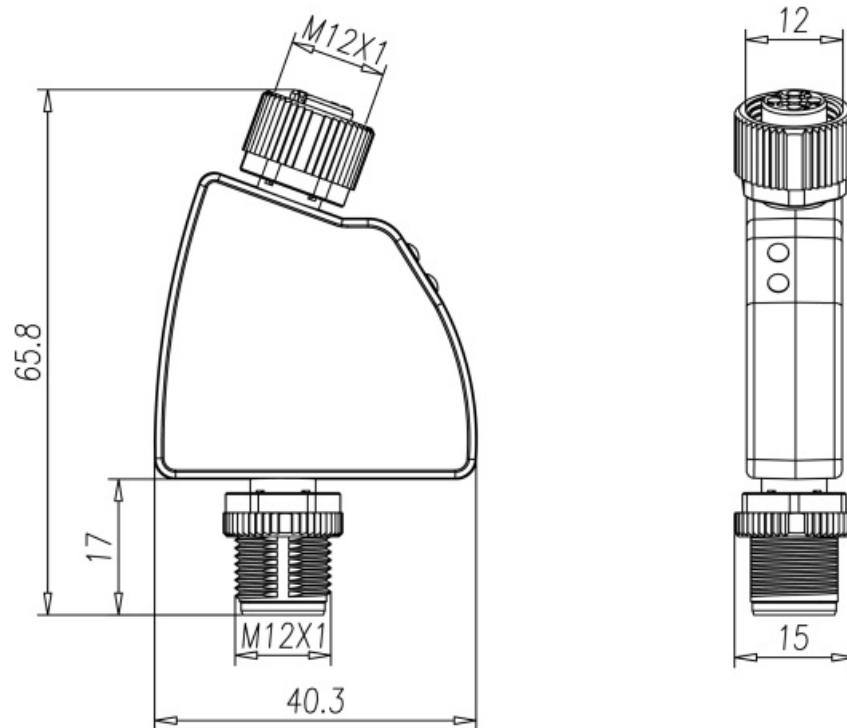


3. Four wire system



Mechanical dimensions

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



IO-Link data

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 bytes input

Process data

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

Actual Temperature = Signed Decimal Number X 0.1

Service data

	SPDU		Object name	length (byte)	scope	Default value
	Index	Subindex				
	/	/				
	/	/	Supplier ID	2	/	0x0454
	/	/	Device ID	3	/	0x099CE2
Identificati on data	0x10	0	Supplier name	19	Read onl y	FAS(Fujian)Co.,LTD
	0x11	0	Supplier text	16		www.fas-elec.com
	0x12	0	Product name	13		FNI IOL-716-000-K023
	0x13	0	Product ID	5		0AC041
	0x14	0	Product text	44		IO-Link M12 1AI PT100
	0x16	0	Hardware version	3		20220330
	0x17	0	Software version	3		2.01

Error code

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

Event

Class/qualifier			Code (high + low)			
Model	Type	Instances				
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			

Ordering information

Product ordering code	Order code
FNI IOL-716-000-K023	0AC041

High-quality products • Sincere service



[Technical support]



[Official website]

Telephone: 0591-22991876

Technical support: +86 13306936805

Official website: www.faselec.com

Business support: +86 19905006938

Address: Room 009, A1, Building 1, National University Science and Technology Park Science and Technology Innovation Center, No. 6 Qiuyang East Road, Shangjie Town, Minhou County, Fujian Province.

FAQ

Q: What should I do if the module fails due to corrosive media?

A: If the module fails or is damaged due to corrosive media, a defect claim cannot be made. It is important to check material compatibility with corrosive media before installation.

Q: Can I use the device in environments with dangerous voltages?

A: No, disconnect all power before using the device to ensure safety.

Q: What precautions should I take when debugging the system?

A: Read the user manual carefully before debugging. Do not operate the equipment in environments where personnel safety depends on its functionality.

Documents / Resources

 <p>PRODUCT</p> <p>Ordering code: 0AC041</p> <p>Part number: FAS IOL-716-000-0023</p> <p>Type: IOL, PT100</p>	<p>FAS IOL-716 Signal Converters Module [pdf] Instructions</p> <p>IOL-716, IOL-716 Signal Converters Module, Signal Converters Module, Converters Module, Module</p>
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References

- [User Manual](#)

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