

# AXL E IOL AI1 I M12 R - Analog module



2700275

<https://www.phoenixcontact.com/us/products/2700275>

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Axioline E IO-Link/analog converter for connecting an analog sensor, 4 mA ... 20 mA, M12 connectors, angled version



## Product description

The IO-Link/analog converter is an IO-Link device that converts analog signals into the IO-Link protocol. It therefore enables you to acquire the signals of analog sensors via an IO-Link master.

## Your advantages

- Connection to an IO-Link master with M12 connector (A-coded, 4-pos.)
- 1 IO-Link interface
- IO-Link A port
- IO-Link specification V1.1.1
- Angled version
- 1 analog input
- Connection of sensor in 3-conductor technology
- Current range: 4 mA ... 20 mA
- Functional ground connection for local connection to functional ground
- Supply of the module electronics and the sensor via the IO-Link interface of the IO-Link master
- Local status indicator
- IP65/IP67 degree of protection

## Commercial data

Item number	2700275
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR04
Product key	DRI7Z5
GTIN	4046356782586
Weight per piece (including packing)	50.3 g
Weight per piece (excluding packing)	34 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### Product properties

Product type	Interface converter
Product family	Axioline E
Type	Stand-alone Axioline E
Diagnostics messages	Overrange or underrange Message in the diagnostic code (in the IB IL format)
	Measured value invalid/no valid measured value present Message in the diagnostic code (in the IB IL format)
	Short circuit Message in the diagnostic code (in the IB IL format)
	Wire break; goes to 0 mA Message in the diagnostic code (in the IB IL format)
	Module faulty Message in the diagnostic code (in the IB IL format)

#### Insulation characteristics

Pollution degree	2
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### Electrical properties

#### Supply: IO-Link

Nominal voltage for I/O supply	24 V DC (This supply voltage is provided via the IO-Link interface of the IO-Link master.)
Nominal current for every IO-Link port	max. 100 mA
Current consumption	typ. 16.5 mA $\pm$ 15 % (at 24 V DC)
	max. 120 mA
Protective circuit	Reverse polarity protection
	Short-circuit protection
	Overload protection

### Input data

#### Analog:

Input name	Analog input
Number of inputs	1 (current)
Connection method	M12 connector, A-coded
Connection technology	3-conductor
Current input signal	4 mA ... 20 mA
Input resistance current input	max. 500 $\Omega$
A/D converter resolution	12 bit

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Data formats	IB IL, S7-compatible
Filtering	None or mean value generation over 4, 16, or 32 measured values

## IO-Link

Number of ports	1
Connection method	M12 connector, A-coded
Connection technology	3-conductor
Specification	V1.1.1
Reverse polarity protection	yes
Cycle Time	min. 2 ms
Amount of process data	16 bit (Input data) 16 bit (Output data)

## Signaling

### Diagnostic messages

Diagnostics	Overrange or underrange
Message	Message in the diagnostic code (in the IB IL format)

### Diagnostic messages

Diagnostics	Measured value invalid/no valid measured value present
Message	Message in the diagnostic code (in the IB IL format)

### Diagnostic messages

Diagnostics	Short circuit
Message	Message in the diagnostic code (in the IB IL format)

### Diagnostic messages

Diagnostics	Wire break; goes to 0 mA
Message	Message in the diagnostic code (in the IB IL format)

### Diagnostic messages

Diagnostics	Module faulty
Message	Message in the diagnostic code (in the IB IL format)

## Dimensions

Dimensional drawing	
Width	16.6 mm
Height	42 mm
Depth	66.5 mm

## Material specifications

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Color (Housing)	anthracite gray (RAL 7016)
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Degree of protection	IP65/IP67
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	5 % ... 95 %
Permissible humidity (storage/transport)	5 % ... 95 %

### Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	Operation: 2g
	Storage/transport: 5g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	Operation: 30g, 11 ms, three shocks in each space direction
	Storage/transport: 50g, 11 ms, three shocks in each space direction
Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27	10g, 16 ms, 1000 shocks, in all space directions

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

Mounting type	Screw mounting (M12 thread)
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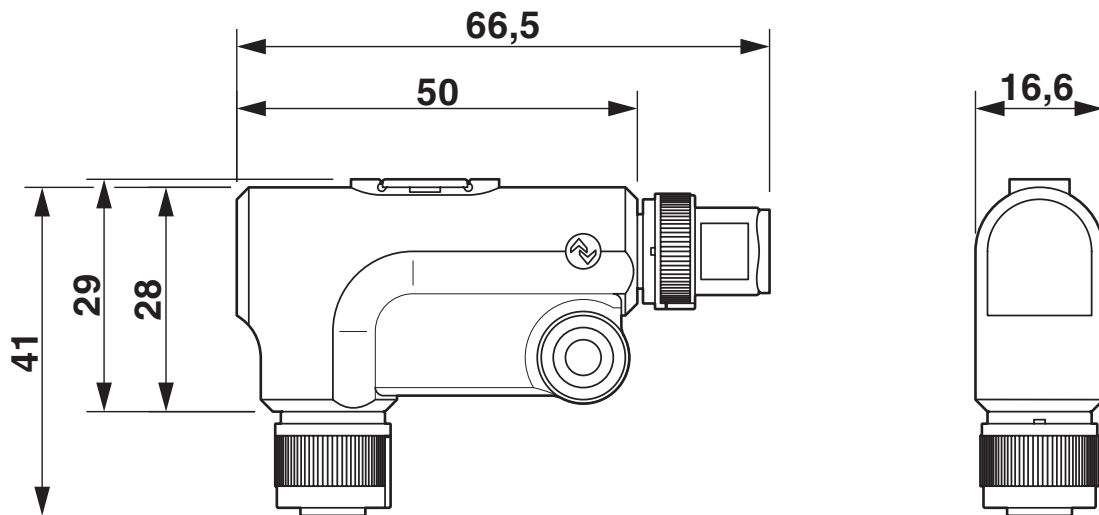
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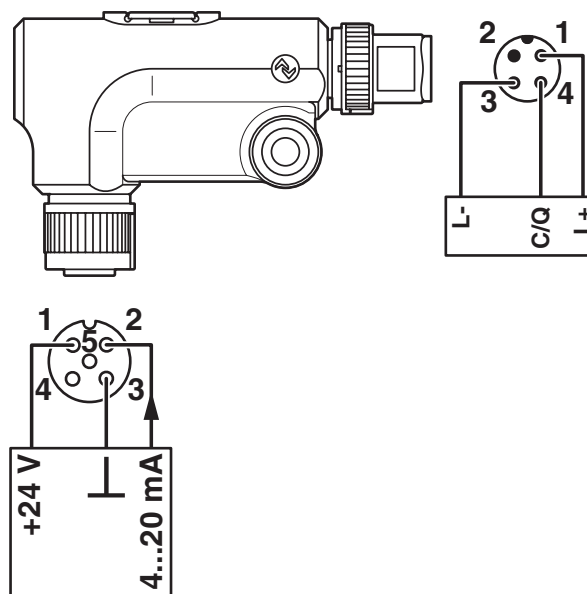


## Drawings

Dimensional drawing



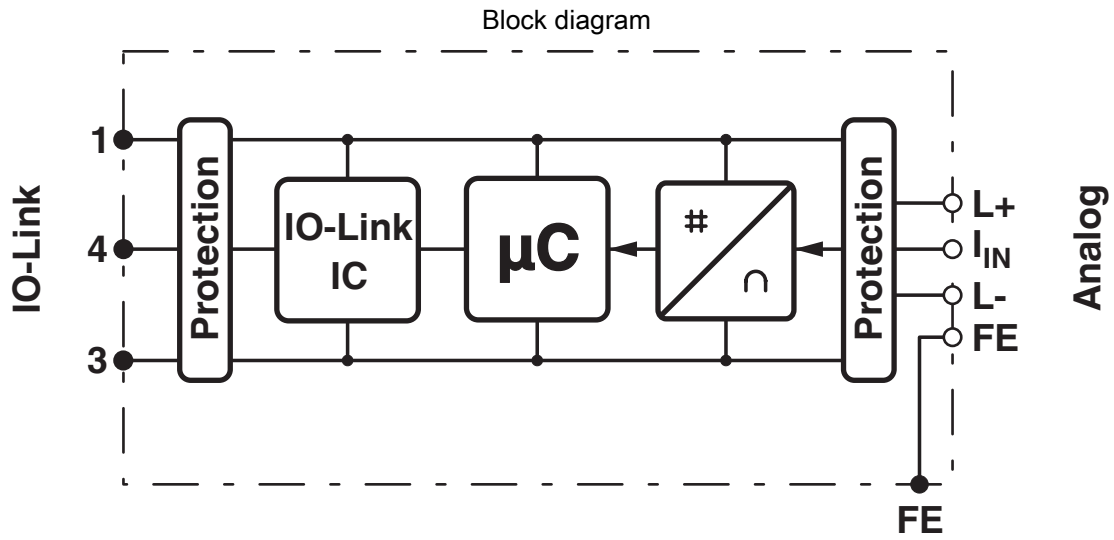
Connection diagram



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## Approvals

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**cULus Listed**

Approval ID: E140324

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## Classifications

### ECLASS

ECLASS-13.0	27242601
ECLASS-15.0	27242601

### ETIM

ETIM 10.0	EC001596
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### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	e0ee6908-c3c0-429e-bf37-c5226a015c81

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