

AXL E IOL AI1 I M12 R - Analog module



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

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Technical data

Notes

Note on application

Note on application	Only for industrial use
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Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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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: General

Input name	Analog input
Number of inputs	1 (current)
A/D converter resolution	12 bit
Connection method	M12 connector, A-coded

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Connection technology	3-conductor
Current input signal	4 mA ... 20 mA
Input resistance current input	max. 500 Ω
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)

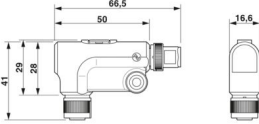
Diagnostic messages

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

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Depth	66.5 mm
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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 %

Standards and regulations

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

Mounting type	M12 mounting threads
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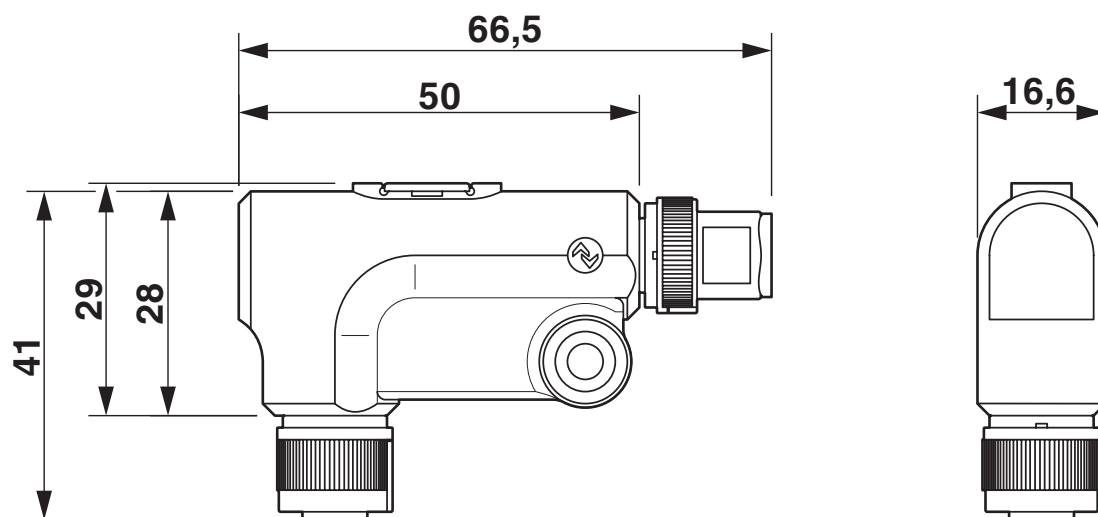
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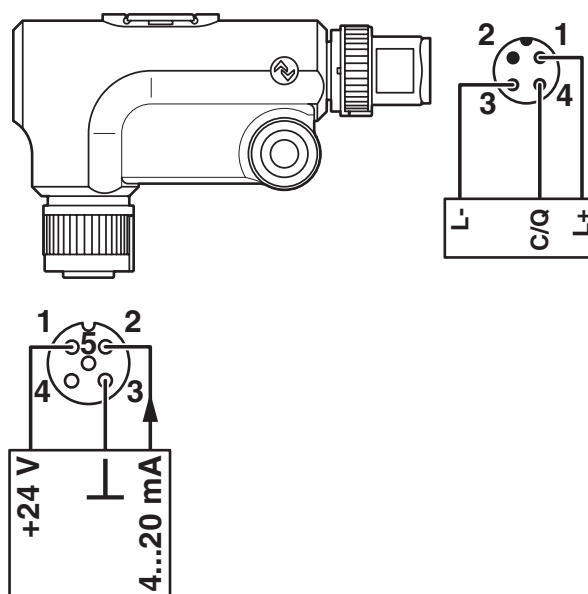


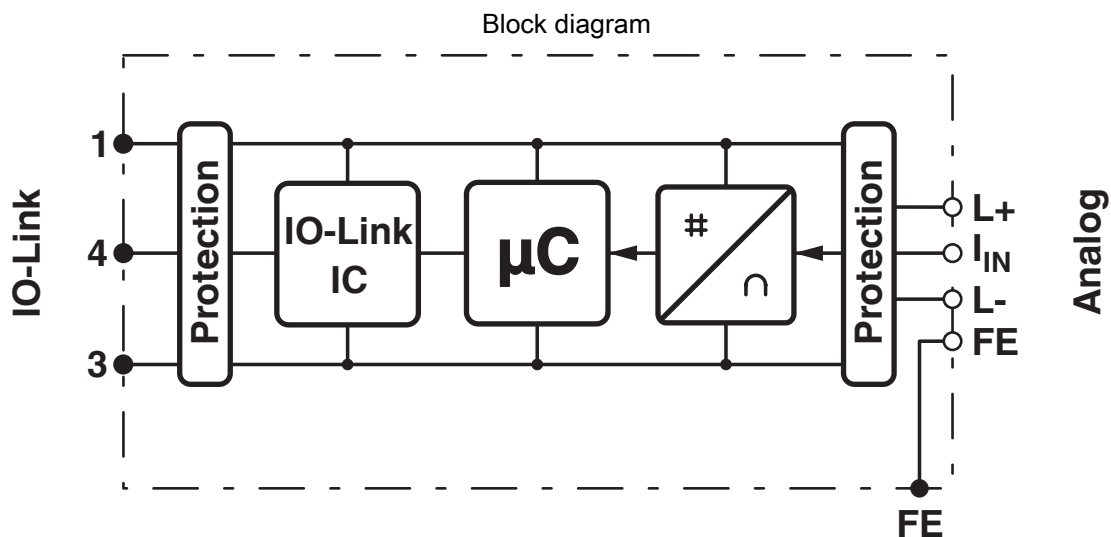
Drawings

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 9.0	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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Accessories

NF PD IOL R - Inductive coupler

1736165

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Remote, wireless power and IO-Link coupler, 18 W, M12 connection technology, IO-Link port Class A, IP68, design M30 x 1.5, can be combined with NF PD IOL B

NF PD IOL B - Inductive coupler

1736167

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Base, wireless power and IO-Link coupler, 18 W, M12 connection technology, IO-Link port Class A, IP68, design M30 x 1.5, can be combined with NF PD IOL R

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