

AXL E IOL RTD1 M12 R - Analog module



2700305

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Axioline E-IO-Link/analog converter for connecting a temperature measurement resistor, M12 fast connection technology, 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 for connecting resistance temperature detectors (RTDs)
- Connection of the sensor in 3- or 4-conductor technology via an M12 connector (A-coded, 5-pos.)
- Voltage range: 0 V ... 10 V
- 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	2700305
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR04
Product key	DRI7Z5
Catalog page	Page 183 (C-6-2019)
GTIN	4046356782616
Weight per piece (including packing)	51 g
Weight per piece (excluding packing)	34 g
Customs tariff number	85176200
Country of origin	DE

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Technical data

Notes

Utilization restriction

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

Type	Stand-Alone Axioline E
Product type	Interface converter
Product family	Axioline E
Type	Angled
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) Configuration invalid 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.)
Current consumption	typ. 16.5 mA \pm 15 % (at 24 V DC) max. 25 mA
Protective circuit	Reverse polarity protection Short-circuit protection Overload protection

Input data

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
Process data update	2 ms

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Amount of process data	16 bit (Input data)
	16 bit (Output data)

Analog

Input name	Analog RTD input
Description of the input	Input for resistive temperature sensors
Number of inputs	1 (for resistance temperature detectors)
Connection method	M12 connector, A-coded
Connection technology	3-conductor (4-conductor as an option)
A/D converter resolution	12 bit
Sensor types (RTD) that can be used	Pt 100, Pt 1000
Data formats	IB IL, S7-compatible
Linear resistance measuring range	0 Ω ... 500 Ω (IB IL format)
	0 Ω ... 5 kΩ (IB IL format)
	0 Ω ... 600 Ω (Format S7 compatible)
	0 Ω ... 6 kΩ (Format S7 compatible)
Protective circuit	Reverse polarity protection
	Short-circuit protection
	Overload protection

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	Configuration invalid
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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Classifications

ECLASS

ECLASS-11.0	27242601
ECLASS-12.0	27242601
ECLASS-13.0	27242601

ETIM

ETIM 9.0	EC001596
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UNSPSC

UNSPSC 21.0	32151600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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