Temperature module - AXL E IOL RTD4 M12 3M

1293247

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Axioline E, Temperature measurement device, Analog inputs: 4, connection technology: 2-, 3-, 4-conductor (shielded), IO-Link, degree of protection: IP65/IP67

Product Description

You can connect this Axioline E device to an IO-Link master via an IO-Link A port. You can use this device to acquire signals from resistance temperature detectors. The device supports platinum sensors in accordance with DIN EN 60751. Use within different networks is possible via the IO-Link master.

Your advantages

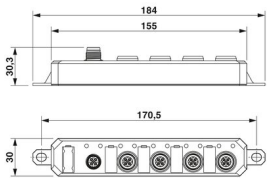
- Connection to an IO-Link master with M12 connector (A-coded, 4-pos.)
- Type A port
- IO-Link specification V1.1.3
- 4 analog input channels for connecting resistance temperature detectors (RTDs)
- Connection of sensors in 2-, 3-, and 4-conductor technology
- Diagnostic and status indicators
- Device rating plate stored
- IP65/IP67 degree of protection

Commercial Data

Item number	1293247
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	DRI7MF
GTIN	4063151527969

Technical Data

Dimensions

Dimensional drawing	
Width	30 mm
Height	184 mm
Depth	30.2 mm

Material specifications

Housing material	Zinc die-cast
Color	gray

System properties

IO-Link

Amount of process data	8 Byte (Input data)
	0 Byte (Output data)

Input data

IO-Link

Number of ports	1
Connection method	M12 connector (A-coded)
Connection technology	3-conductor
Port type	Class A

Analog

Input name	Analog inputs
Description of the input	Inputs for resistive temperature sensors
Number of inputs	4
Connection method	M12 connector (A-coded)
Connection technology	2-, 3-, 4-conductor (shielded)
A/D converter resolution	24 bit
Sensor types (RTD) that can be used	Pt sensors
Data formats	Standardized representation
Measured value representation	16 bits (15 bits + sign bit)
Input filter time	120 ms
Nominal value of the current sources	1 mA (Pt 100; pulsed current, the data is valid during the sampling phase)
	210 µA (Pt 1000; pulsed current, the data is valid during the sampling phase)

Protective circuit	Transient protection
	Surge protection (35 V for 0.5 s)

Product properties

Type	Stand-Alone
Product type	I/O component

Insulation characteristics

Pollution degree	2 (IEC 60664-1, EN 60664-1)

Electrical properties

Supply: IO-Link

Designation	IO-Link port supply (L+)
Nominal voltage for I/O supply	24 V DC (Provided via the IO-Link interface of the IO-Link master.)
Nominal current per device	approx. 50 mA
Protective circuit	Reverse polarity protection; yes

Supply: Sensors

Designation	Supply of the sensors (from L+)
Current consumption	max. 2 A (Device dependent; observe the current of the IO-Link master that is made available via L+.)

Connection data

Connection method	M12 connector

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-25 °C ... 70 °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 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)

Standards and regulations

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

Classifications

ECLASS

ECLASS-9.0	27242601
ECLASS-10.0.1	27242601
ECLASS-11.0	27242601
ECLASS-12.0	27242601

ETIM

ETIM 8.0	EC001596

UNSPSC

UNSPSC 21.0	32151600

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