PLC-ASC-PT100-IN - Analog module

2906918

https://www.phoenixcontact.com/us/products/2906918

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Pt 100/Pt 1000 temperature transducer for PLC logic logic modules (Generation 2 only), single-channel, signal type (Pt 100, Pt 1000) configurable via DIP switch, screw connection

Commercial data

Item number	2906918
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C424
Product key	CK2622
Catalog page	Page 431 (C-5-2017)
GTIN	4055626153797
Weight per piece (including packing)	79.4 g
Weight per piece (excluding packing)	53.3 g
Customs tariff number	85389099
Country of origin	DE

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Technical data

Notes

General	For proper use, the specifications of the installation directive (see Downloads) must be observed.

Product properties

Product type	Extension module
Product family	PLC logic
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation

Insulation characteristics: Air clearances and creepage distances

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

Electrical properties

Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV

Supply

Rated control circuit supply voltage U_S	24 V DC
Rated control supply voltage range with reference to U_S	0.8 ... 1.1
Rated control supply current I_S	14 mA
Protective circuit	Reverse polarity protection
	Surge protection

Input data

Analog input resistance

Sensor types (RTD) that can be used	Pt 100 (IEC 60751, α = 0,00385)
Number of inputs	1
Connection technology	2-conductor
Sensor input current	900 µA
Temperature measuring range	-50 °C ... 200 °C
Maximum temperature coefficient	0.01 %/K
Maximum transmission error	1 %
Surge voltage protection	> 33 V
Resolution	10 bit (scaled to 0 to 1000)

Analog input resistance

Sensor types (RTD) that can be used	Pt 1000 (IEC 60751, α = 0.00385)

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Number of inputs	1
Connection technology	2-conductor
Sensor input current	900 µA
Temperature measuring range	-50 °C ... 200 °C
Maximum temperature coefficient	0.01 %/K
Maximum transmission error	1 %
Surge voltage protection	> 33 V
Resolution	10 bit (scaled to 0 to 1000)

Output data

Digital

Output name	Digital output
Switching voltage range	5 V DC ... 30 V DC
Switching current	≤ 3 mA

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	0.14 mm² ... 2.5 mm²
Conductor cross section flexible	0.14 mm² ... 2.5 mm²
	0.2 mm² ... 2.5 mm² (Single ferrule)
	2x 0.5 mm² ... 1.5 mm² (TWIN ferrule)
Conductor cross section AWG	26 ... 14
Tightening torque	0.45 Nm ... 0.55 Nm (Usually these terminal blocks must be supported during conductor connection (held by one hand, supported on the housing))

Signaling

Operating voltage display	Green LED
Error indication	Red LED

Dimensions

Width	6.2 mm
Height	80 mm
Depth	86 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Approvals

CE	
Certificate	CE-compliant

UL, USA/Canada	
Identification	UL 508 Listed

Standards and regulations

Air clearances and creepage distances	
Standards/regulations	DIN EN 50178

Mounting

Mounting type	DIN rail mounting
Assembly instructions	in rows with zero spacing
Mounting position	any

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Drawings

Block diagram
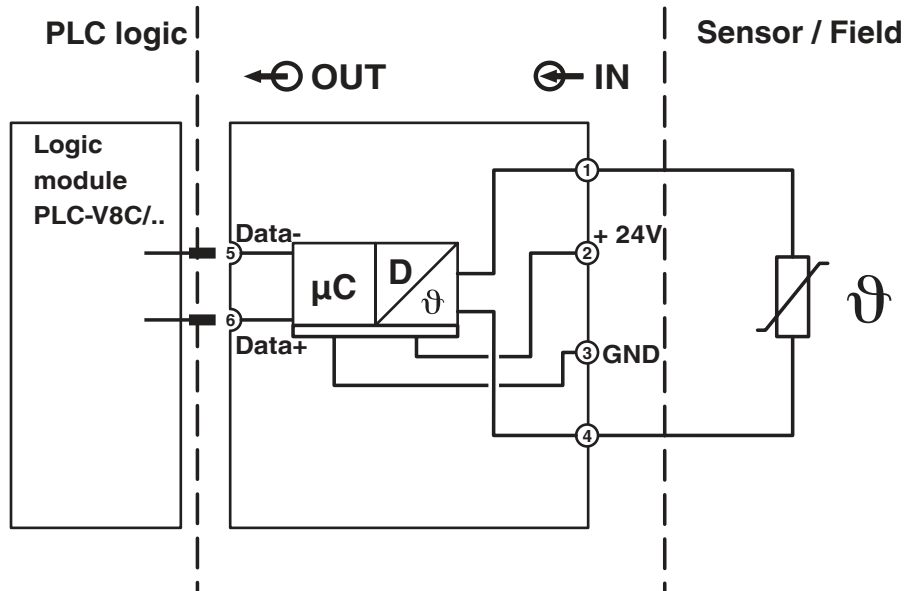
Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2906918

EAC
Approval ID: RU*DE.*08.B.01517/19

UL Listed
Approval ID: FILE E 238705

cUL Listed
Approval ID: FILE E 238705

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27242201
ECLASS-13.0	27242201
ECLASS-12.0	27242201

ETIM

ETIM 8.0	EC001420

UNSPSC

UNSPSC 21.0	32151600

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"