

PLC-V8C/PT-24DC/BM2 - Controller



2907446

<https://www.phoenixcontact.com/us/products/2907446>

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PLC logic basic module, Generation 2, with 16 I/Os, for plug-in connection to eight digital or analog PLC-INTERFACE terminal blocks, can be extended to 48 I/Os, real-time clock, micro USB female connector, accommodates memory module and Bluetooth adapter, Push-in connection

Commercial data

Item number	2907446
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C424
Product key	CK2611
Catalog page	Page 431 (C-5-2019)
GTIN	4055626218168
Weight per piece (including packing)	142.7 g
Weight per piece (excluding packing)	136 g
Customs tariff number	85371098
Country of origin	DE

Technical data

Notes

General	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.
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Product properties

Product type	Base unit
Product family	PLC logic
Operating mode	100% operating factor

Insulation characteristics

Insulation	Basic insulation
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Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Basic insulation
Oversvoltage category	III
Pollution degree	2

Electrical properties

Air clearances and creepage distances between the power circuits

Rated insulation voltage	50 V
Rated surge voltage	0.8 kV

Real-time clock

Realtime clock	Yes
Buffer period	96 h (Capacitor)
Accuracy realtime clock	±2 s/d

Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 26.4 V DC
Typical input current at U_N	40 mA
Maximum input current at U_N	160 mA
Protective circuit	Reverse polarity protection Surge protection

Input data

Digital inputs

Number of inputs	≤ 8 (2 configurable as analog)
Description of the input	EN 61131-2, type 3
Input voltage	24 V DC
Signal level "0" signal	< 5 V

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Signal level "1" signal	> 11 V
Input current "0" signal	< 1 mA
Input current "1" signal	2.5 mA
Status display	Yellow LED

Analog inputs

Number of inputs	≤ 2 (IN6 and IN7 are configurable as analog)
Input voltage range	0 V ... 10 V
Input resistance	> 3.5 kΩ

Contact to PLC-INTERFACE

Number of inputs	≤ 8
Description of the input	technical data depends on the PLC-INTERFACE terminal block used
Input voltage	19 V DC
Typical current consumption	4 mA
Input resistance	< 100 mΩ

Output data

Number of outputs	≤ 8
Nominal output voltage	24 V DC
Nominal current	9 mA

Connection data

COMBICON connection

Connection method	Push-in connection
Stripping length	9 mm
Number of connections	1
Number of positions	10
Note	Device supply and 8 x inputs
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
	0.25 mm ² ... 0.5 mm ² (Ferrule with plastic sleeve)
	0.25 mm ² ... 1.5 mm ² (Ferrules without plastic sleeve)
Conductor cross section AWG	26 ... 16

Programming connection

Connection method	Micro USB type B
Number of connections	1

INTERFACE system

Connection method	Spring-cage connection
Stripping length	6 mm
Number of connections	1
Number of positions	3
Conductor cross section rigid	0.14 mm ² ... 0.5 mm ²

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Conductor cross section flexible	0.2 mm ² ... 0.5 mm ²
Conductor cross section AWG	26 ... 20

PLC logic - bus

Connection method	Insulation displacement connection
Number of connections	1
Number of positions	4

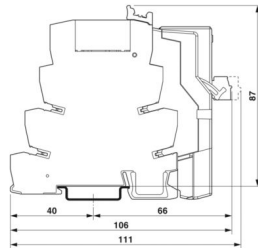
Memory

Connection method	S-PORT (socket)
Number of connections	1
Number of positions	12
Note	For connecting the memory module

Signaling

Status display	Green LED
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Dimensions

Dimensional drawing	
Width	50 mm
Height	48.5 mm 111 mm (with relay)
Depth	82.5 mm 87 mm (with relay)

Material specifications

Color	gray (RAL 7042)
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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
Max. permissible relative humidity (operation)	95 %

Approvals

CE

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Certificate	CE-compliant
UL, USA/Canada	
Identification	Class I, Div. 2, Groups A, B, C, D T4
UL, Canada	
Identification	Class I, Zone 2, Ex ec IIC Gc T4 X
UL, USA	
Identification	Class I, Zone 2, AEx ec IIC T4

Standards and regulations

Air clearances and creepage distances between the power circuits

Standards/regulations	DIN EN 50178
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Mounting

Mounting type	Plug-in mounting
Assembly instructions	can be plugged onto 8 x PLC-INTERFACE terminal blocks
Mounting position	any

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Classifications

ECLASS

ECLASS-11.0	27242216
ECLASS-13.0	27242216
ECLASS-12.0	27242216

ETIM

ETIM 9.0	EC001417
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UNSPSC

UNSPSC 21.0	39122300
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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com