

PLC-V8C/PT-24DC/EM - Extension module



2905137

<https://www.phoenixcontact.com/au/products/2905137>

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PLC logic extension module with 16 I/Os, for plug-in connection to eight PLC-INTERFACE terminal blocks for extending the basic module (a maximum of two extension modules can be connected to a basic module), Push-in connection

Commercial data

Item number	2905137
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DK2621
Product key	DK2621
Catalog page	Page 431 (C-5-2019)
GTIN	4046356919487
Weight per piece (including packing)	129.5 g
Weight per piece (excluding packing)	119.4 g
Customs tariff number	85389099
Country of origin	DE

Technical data

Notes

Notes on operation	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.
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the download area

Product properties

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

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	0.8 kV

Supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 26.4 V DC
Maximum input current at U_N	65 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
Signal level "1" signal	> 11 V
Input current "0" signal	< 1 mA
Input current "1" signal	typ. 2.5 mA
Status display	LED (yellow)

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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 mm² ... 1.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
	0.25 mm² ... 0.5 mm² (Ferrule with plastic sleeve)
	0.25 mm² ... 1.5 mm² (Ferrule without plastic sleeve)
Conductor cross section AWG	26 ... 16

PLC logic - bus

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

Signaling

Status display	LED (green)
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Dimensions

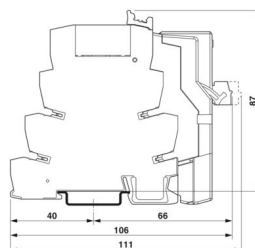
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Dimensional drawing



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

Certificate	CE-compliant
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UL, USA/Canada

Identification	Class I, Div. 2, Groups A, B, C, D T4
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UL, Canada

Identification	Class I, Zone 2, Ex ec IIC Gc T4 X
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UL, USA

Identification	Class I, Zone 2, AEx ec IIC T4
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Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
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Mounting

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

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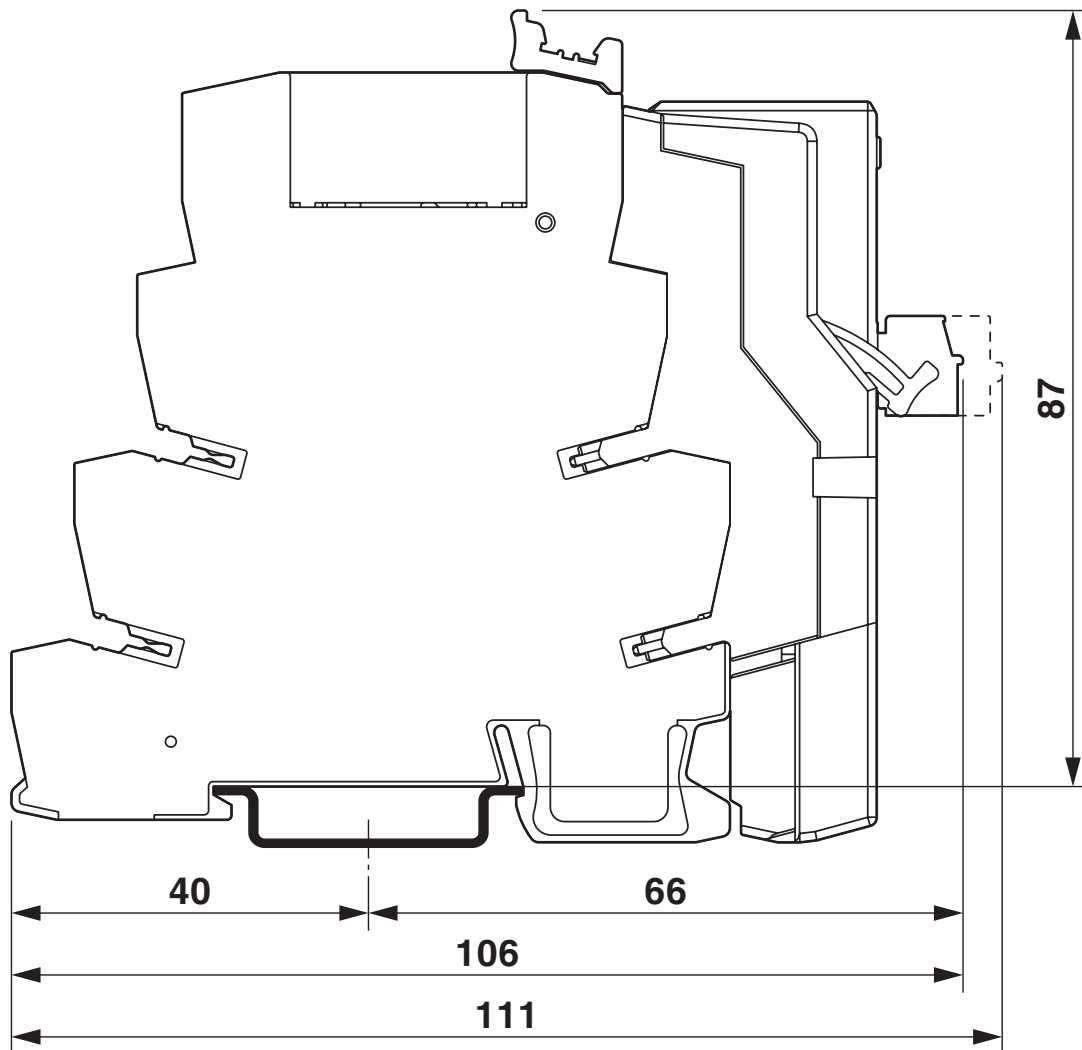
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Mounting position	any
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Drawings

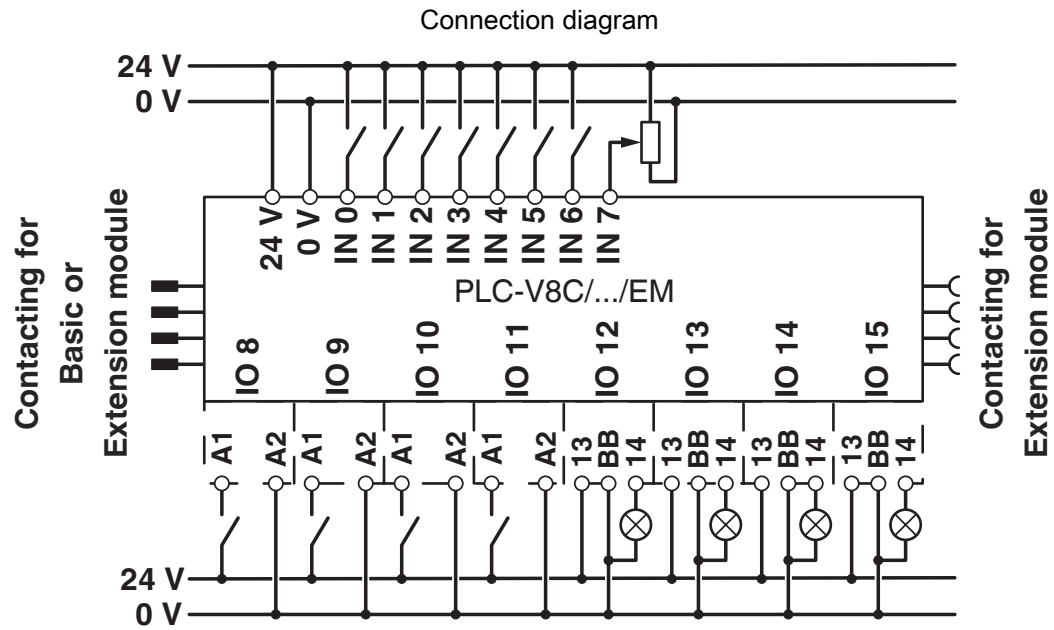
Dimensional drawing



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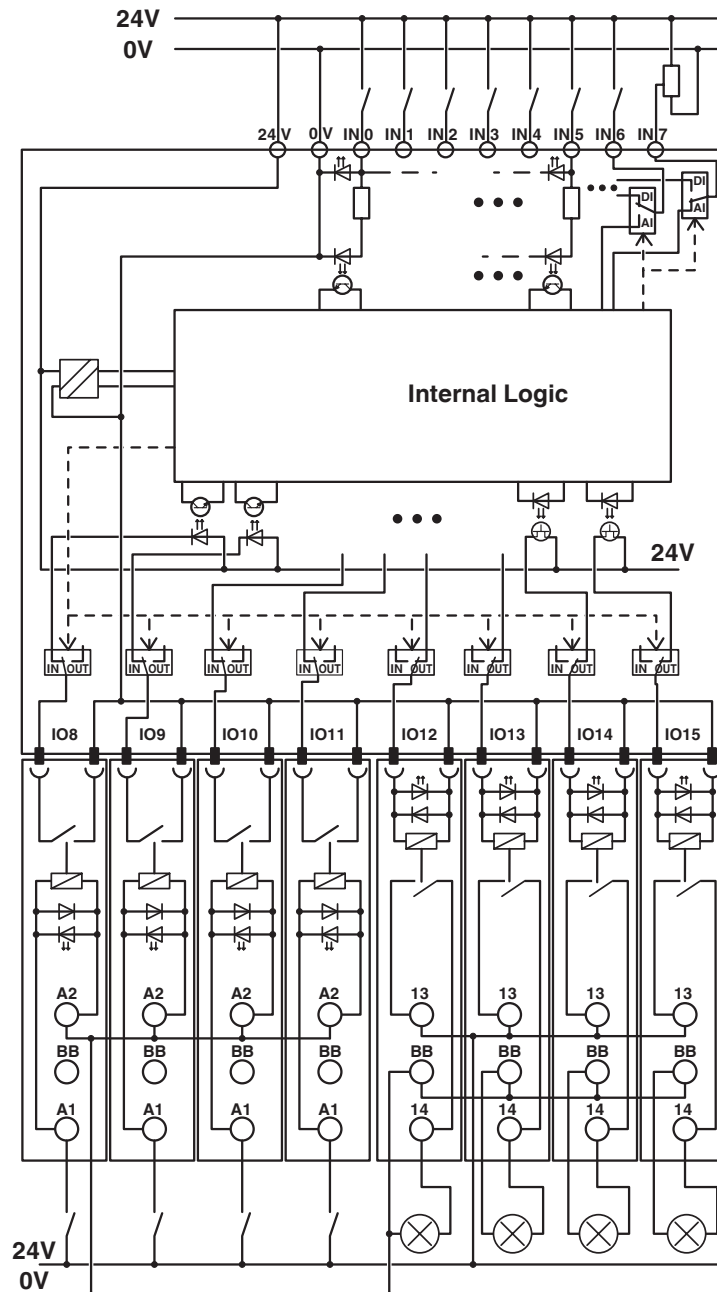
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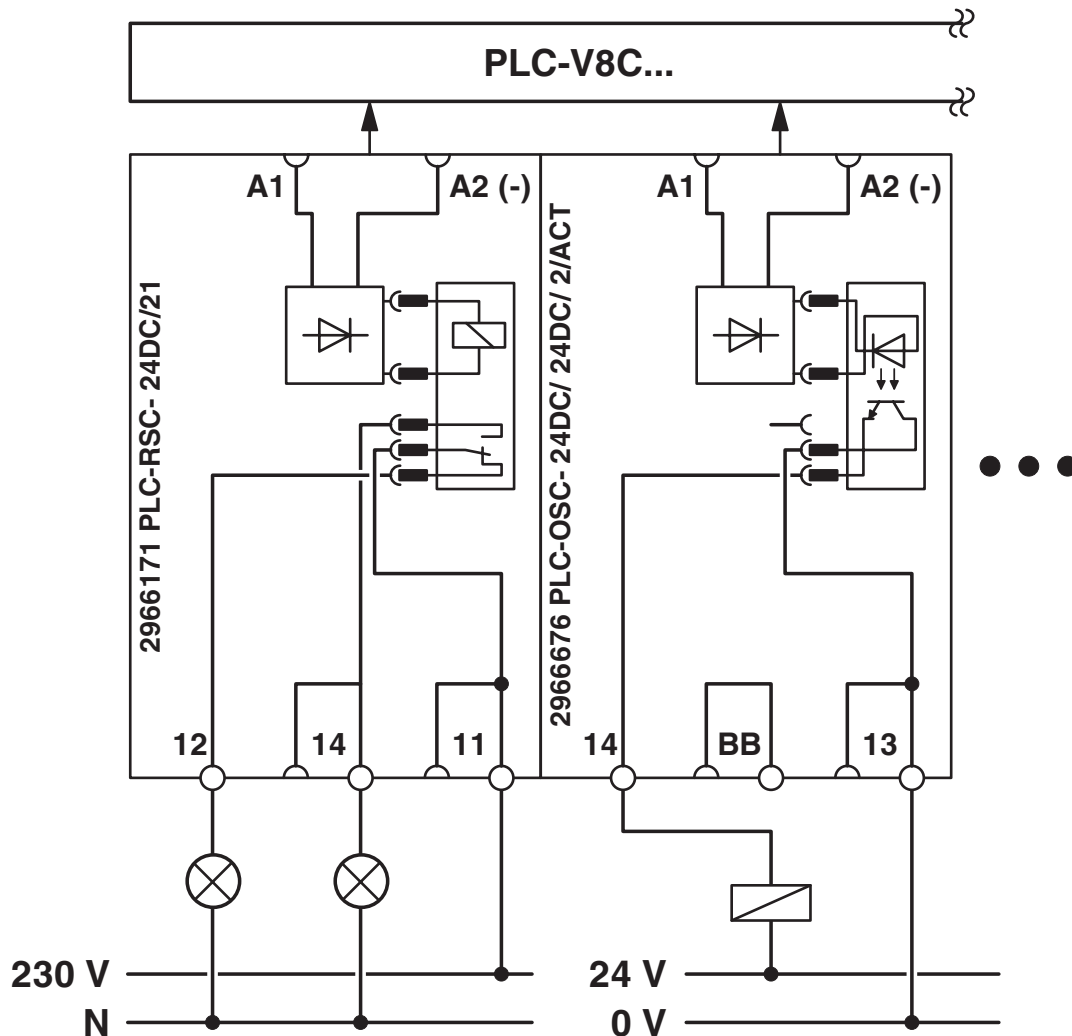
Circuit diagram



The diagram illustrates the internal wiring of a PLC system. At the top, a horizontal bar represents the PLC-V8C... unit. Below it, two modules are shown side-by-side, separated by a vertical line. The left module is labeled '2966333 PLC-RSC-230UC/1AU/SEN' and the right module is labeled '2904690 PLC-OSC-24DC/48DC/100V8C/SEN'. Each module has a terminal block on the left with terminals A1, BB, and A2. The left module is connected to a 230 V AC supply (N) and a common ground (N). The right module is connected to a 24 V DC supply and a common ground (0 V). Both modules have a terminal block on the right with terminals 13 and 14. The wiring shows the internal connections for power supply, signal input, and output. The diagram is a detailed schematic showing the internal components and their connections.

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Circuit diagram



Basic circuit diagram: outputs via PLC-INTERFACE with the example of an output terminal block with relay, 1 changeover contact, and an output terminal block with solid-state relay.

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/2905137>

	EAC Approval ID: RU*DE.*08.B.01517/19
	UL Listed Approval ID: FILE E 172140
	cUL Listed Approval ID: FILE E 172140
	cUL Listed Approval ID: E199827
	UL Listed Approval ID: E199827

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Classifications

ECLASS

ECLASS-13.0	27242216
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ETIM

ETIM 9.0	EC001417
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UNSPSC

UNSPSC 21.0	39122300
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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	53b8947d-f1d5-457b-bfc3-67f7fddbbeba

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