

2903094

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PLC logic basic logic module, generation 1, with 16 I/Os, can be plugged onto 8 digital PLC-INTERFACE terminal blocks, can be extended to 48 I/Os, realtime clock, accommodates memory module and Bluetooth adapter (firmware update required, see downloads), screw connection

Commercial data

Item number	2903094
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CK2611
Catalog page	Page 455 (C-7-2015)
GTIN	4046356712842
Weight per piece (including packing)	132.1 g
Weight per piece (excluding packing)	132.1 g
Customs tariff number	85371098
Country of origin	DE



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

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

Insulation	Basic insulation
Overvoltage 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	24 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
Maximum input current at U _N	120 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

Input current "0" signal

Connection method

Number of connections

INTERFACE system

Connection method

Stripping length

Number of connections

Number of positions

input current o signal	S I III/A
Input current "1" signal	2.5 mA
Status display	LED (yellow)
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
utput data	
Number of outputs	≤ 8
Nominal output voltage	24 V DC
Nominal current	9 mA
onnection data	
COMBICON connection	
Connection method	Screw connection
Stripping length	7 mm
Screw thread	M2
Number of connections	1
	·
Number of positions	10
Number of positions Note	
	10
Note	10 Device supply and 8 x inputs
Note Conductor cross section rigid	10 Device supply and 8 x inputs 0.14 mm² 1.5 mm²
Note Conductor cross section rigid	Device supply and 8 x inputs 0.14 mm² 1.5 mm² 0.14 mm² 1.5 mm²

Micro USB type B

Spring-cage connection

6 mm

1

3

> 11 V

< 1 mA



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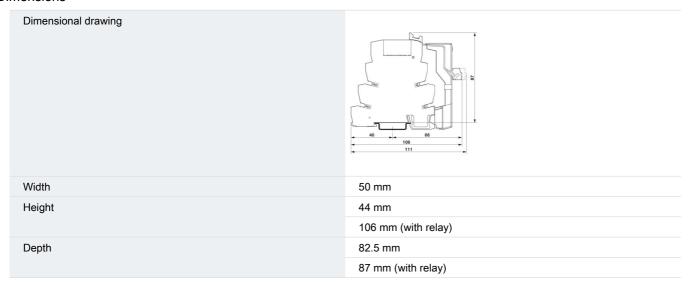
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Conductor cross section rigid	0.14 mm² 0.5 mm²
Conductor cross section flexible	0.2 mm² 0.5 mm²
Conductor cross section AWG	26 20
PLC logic - bus	
Connection method	Insulation displacement connection
Number of connections	1
Number of positions	4
Memory	
Connection method	S-PORT (socket)
Number of connections	1
Number of positions	12
Note	For connecting the memory module

Signaling

Status display	LED (green)
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Dimensions



Material specifications

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C 45 °C
Ambient temperature (storage/transport)	-20 °C 70 °C
Max. permissible relative humidity (operation)	95 %

Approvals



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Mounting position

	CE			
	Certificate	CE-compliant		
Standards and regulations				
	Air clearances and creepage distances between the power circuits			
	Standards/regulations	DIN EN 50178		
Mounting				
	Mounting type	Plug-in mounting		
	Assembly note	can be plugged onto 8 x PLC-INTERFACE terminal blocks		

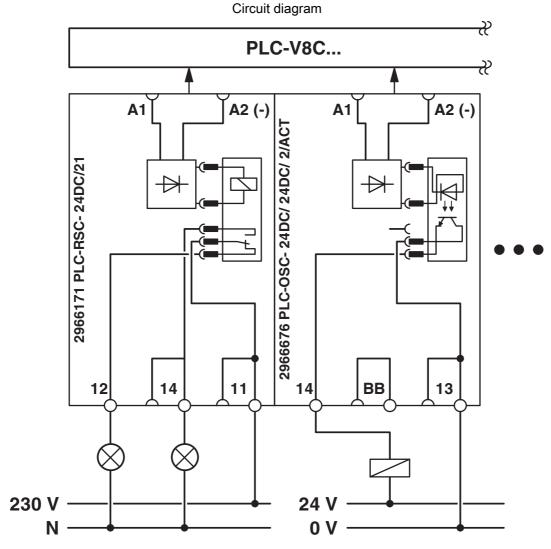
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Drawings

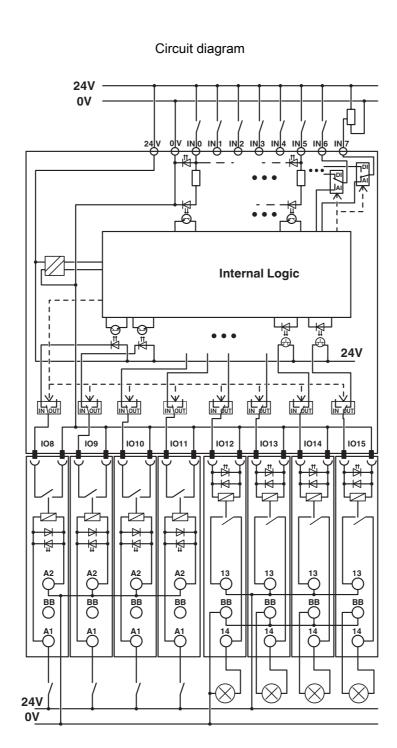


Basic circuit diagram: outputs via PLC-INTERFACE with the example of an output terminal block with relay, 1 changeover contact, and an output terminal block with solid-state relay.



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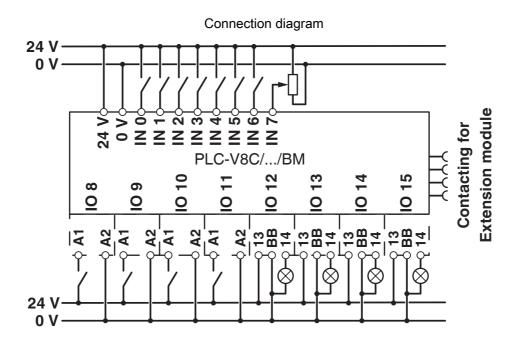






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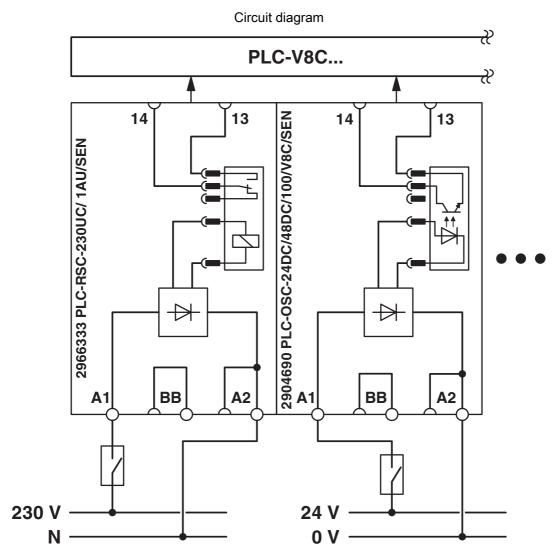
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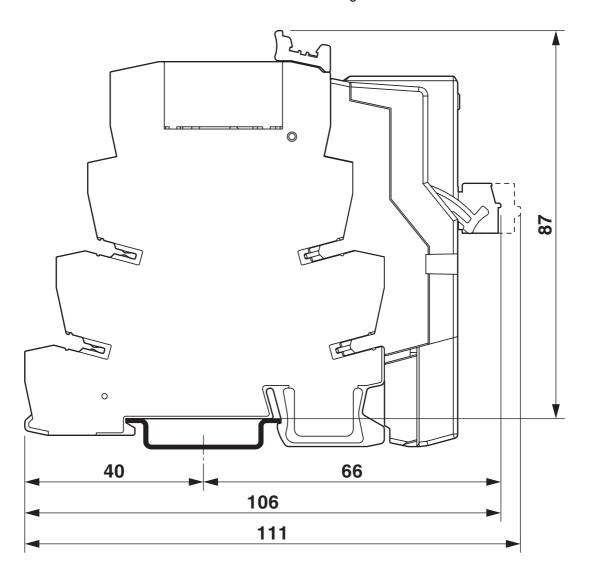
Basic circuit diagram: inputs via PLC-INTERFACE with the example of one input terminal block with relay (230 V AC) and one input terminal block with solid-state relay (24 V DC).



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Dimensional drawing

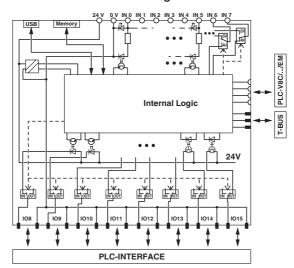




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Circuit diagram





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Classifications

ECLASS

ECLASS-11.0 27242216

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Environmental product compliance

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.)	No substance above 0.1 wt%

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