

# Controller - PLC-V8C/SC-24DC/SAM - 2905082


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PLC logic stand-alone logic module, generation 1, with 16 I/Os, can be plugged onto 8 digital PLC-INTERFACE terminal blocks, cannot be extended, realtime clock, accommodates memory module and Bluetooth adapter (firmware update required, see downloads), screw connection

RoHS

## Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 918923
GTIN	4046356918923

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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### Power supply

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 26.4 V DC
Maximum input current at U <sub>N</sub>	120 mA
Protective circuit	Reverse polarity protection
	Surge protection
Status display	Green LED

### Input data (digital)

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

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## Technical data

### Input data (digital)

Status display	Yellow LED
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### Input data (analog)

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

### Input data (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

### General

Realtime clock accuracy	±2 s/d
Realtime clock buffer time	24 h (Capacitor)
Color	green
Mounting position	any
Assembly instructions	can be plugged onto 8 x PLC-INTERFACE terminal blocks
Operating mode	100% operating factor
Degree of protection	IP20

### Connection data (supply and digital inputs)

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M2
Conductor cross section solid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrules without plastic sleeve)
Conductor cross section AWG	28 ... 16
Number of connections	1
Number of positions	10
Note	Device supply and 8 x inputs

### Connection data (programming interface)

Connection method	Micro USB type B
Number of connections	1

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## Technical data

### Connection data (memory)

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

### Ambient conditions

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

### Dimensions

Width	50 mm
Height	106 mm
Depth	87 mm

### Standards and Regulations

Designation	Air clearances and creepage distances between the power circuits
Standards/regulations	DIN EN 50178
Rated insulation voltage	50 V
Rated surge voltage	0.8 kV
Insulation	Basic insulation
Degree of pollution	2
Overvoltage category	III
Conformance	CE-compliant

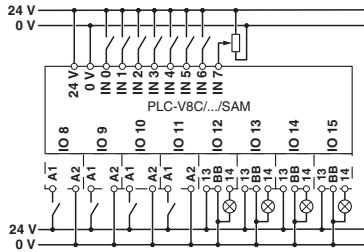
### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

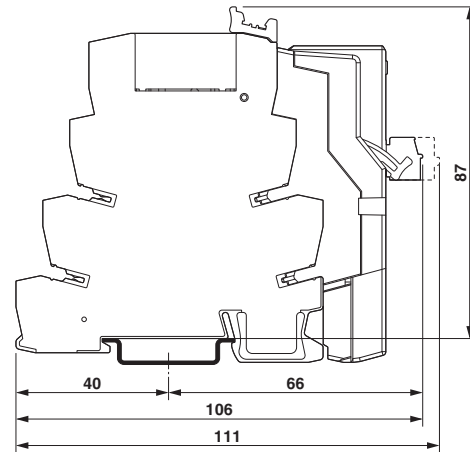
## Drawings

# Controller - PLC-V8C/SC-24DC/SAM - 2905082

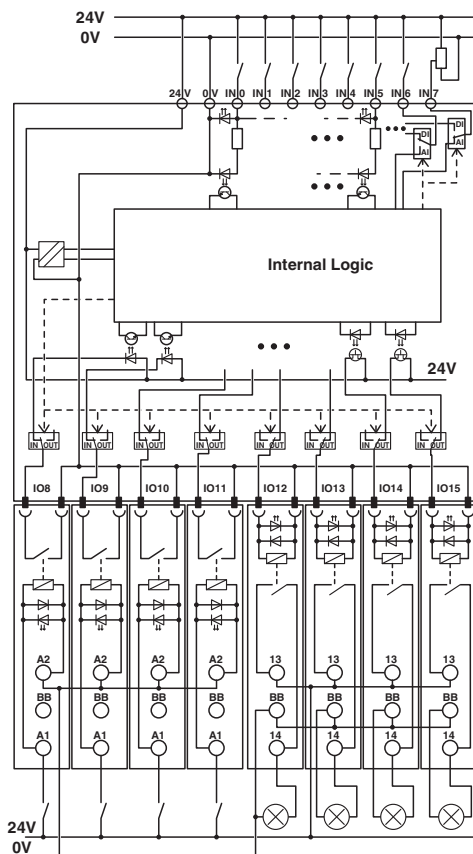
Connection diagram



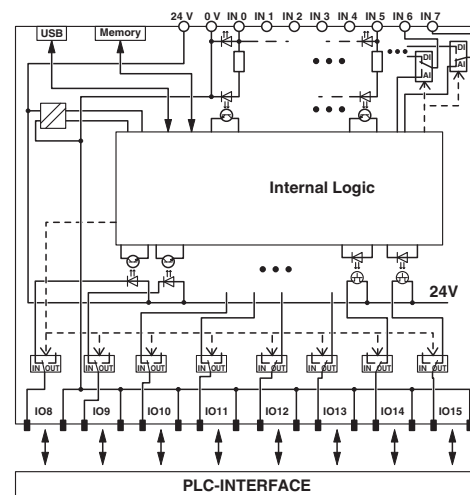
Dimensional drawing



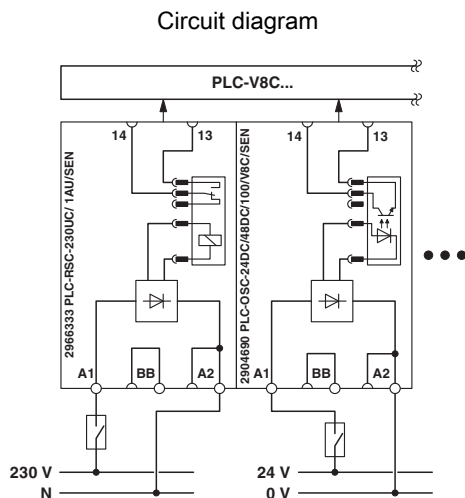
Circuit diagram



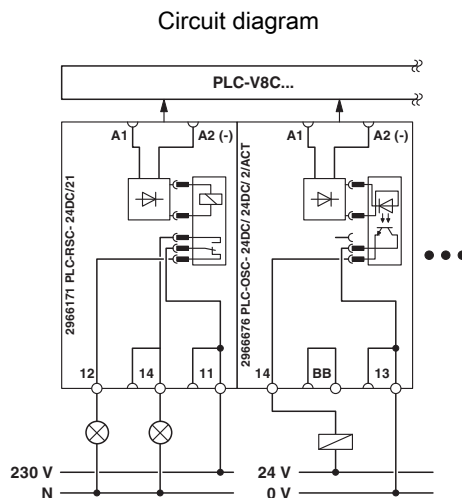
Circuit diagram



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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).



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

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