

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	C424
Product key	CK2621
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



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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
roduct properties	
Product type	Extension module
Product family	PLC logic
Operating mode	100% operating factor
Data management status	
Article revision	07
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

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 <sub>N</sub>	65 mA
Protective circuit	Reverse polarity protection
	Surge protection

50 V

### Input data

### Digital inputs

- 19.1cm p 410	
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



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Input current "1" signal	typ. 2.5 mA
Status display	LED (yellow)
alog inputs	
Number of inputs	2 (IN6 and IN7 are configurable as analog)
Input voltage range	0 V 10 V
Input resistance	> 3.5 kΩ
ntact 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
out data	
Number of outputs	≤ 8
Naminal autout valtage	24 V DC
Nominal output voltage	24 V DC
Nominal current nection data	9 mA
Nominal current  nection data  DMBICON connection	9 mA
Nominal current  nection data  DMBICON connection  Connection method	
Nominal current  nection data  DMBICON connection  Connection method  Stripping length	9 mA
Nominal current  nection data  DMBICON connection  Connection method  Stripping length  Number of connections	9 mA  Push-in connection 9 mm 1
Nominal current  nection data  DMBICON connection  Connection method  Stripping length  Number of connections  Number of positions	9 mA  Push-in connection 9 mm 1 10
Nominal current  nection data  OMBICON connection  Connection method  Stripping length  Number of connections  Number of positions  Note	9 mA  Push-in connection 9 mm 1 10 Device supply and 8 x inputs
Nominal current  nection data  DMBICON connection  Connection method  Stripping length  Number of connections  Number of positions  Note  Conductor cross section rigid	Push-in connection  9 mm  1  10  Device supply and 8 x inputs  0.14 mm² 1.5 mm²
Nominal current  nection data  OMBICON connection  Connection method  Stripping length  Number of connections  Number of positions  Note	Push-in connection  9 mm  1  10  Device supply and 8 x inputs  0.14 mm² 1.5 mm²  0.14 mm² 1.5 mm²
Nominal current  nection data  DMBICON connection  Connection method  Stripping length  Number of connections  Number of positions  Note  Conductor cross section rigid	Push-in connection  9 mm  1  10  Device supply and 8 x inputs  0.14 mm² 1.5 mm²  0.15 mm²  0.25 mm² 0.5 mm² (Ferrule with plastic sleeve)
Nominal current  nection data  DMBICON connection  Connection method  Stripping length  Number of connections  Number of positions  Note  Conductor cross section rigid  Conductor cross section flexible	Push-in connection  9 mm  1  10  Device supply and 8 x inputs  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)
Nominal current  nection data  DMBICON connection  Connection method  Stripping length  Number of connections  Number of positions  Note  Conductor cross section rigid	Push-in connection  9 mm  1  10  Device supply and 8 x inputs  0.14 mm² 1.5 mm²  0.15 mm²  0.25 mm² 0.5 mm² (Ferrule with plastic sleeve)
Nominal current  nection data  DMBICON connection  Connection method  Stripping length  Number of connections  Number of positions  Note  Conductor cross section rigid  Conductor cross section flexible	Push-in connection  9 mm  1  10  Device supply and 8 x inputs  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)
Nominal current  nection data  DMBICON connection  Connection method  Stripping length  Number of connections  Number of positions  Note  Conductor cross section rigid  Conductor cross section flexible  Conductor cross section AWG	Push-in connection  9 mm  1  10  Device supply and 8 x inputs  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)
Nominal current  nection data  DMBICON connection Connection method Stripping length Number of connections Number of positions Note Conductor cross section rigid Conductor cross section flexible  Conductor cross section AWG C logic - bus	Push-in connection  9 mm  1  10  Device supply and 8 x inputs  0.14 mm² 1.5 mm²  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)  26 16

LED (green)

### Dimensions

Status display



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Mounting type

Assembly note

Dimensional drawing	40 66 111
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)
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	
, ipprovate	
CE	
Certificate	CE-compliant CE-compliant
UL, USA/Canada	
Identification	Class I, Div. 2, Groups A, B, C, D T4
UL, Canada	0, 17, 05, 100, 747
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	
Standards/regulations	EN IEC 60664-1
Mounting	
Mounting type	Dlug in mounting

Plug-in mounting

can be plugged onto 8 x PLC-INTERFACE terminal blocks



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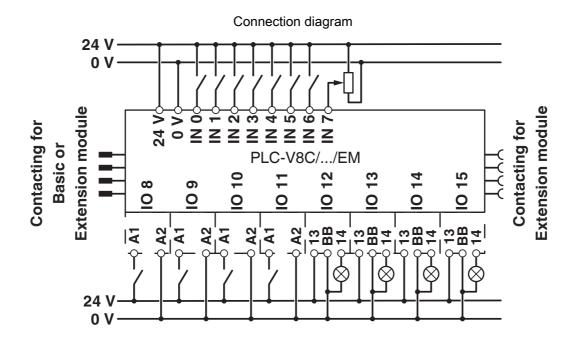
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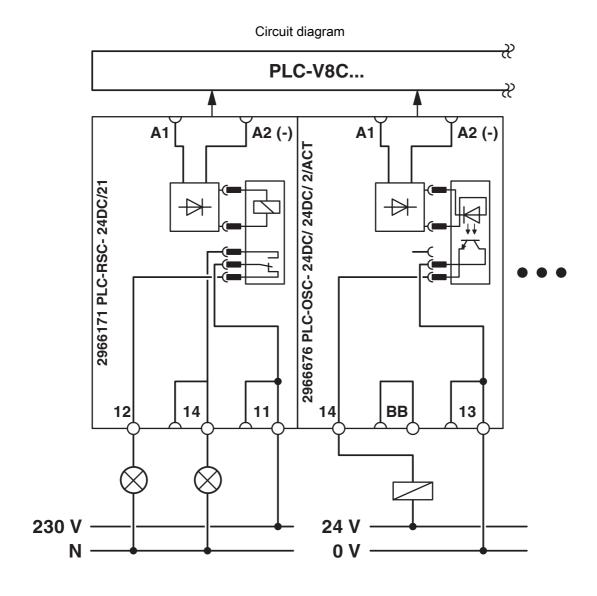
### Drawings





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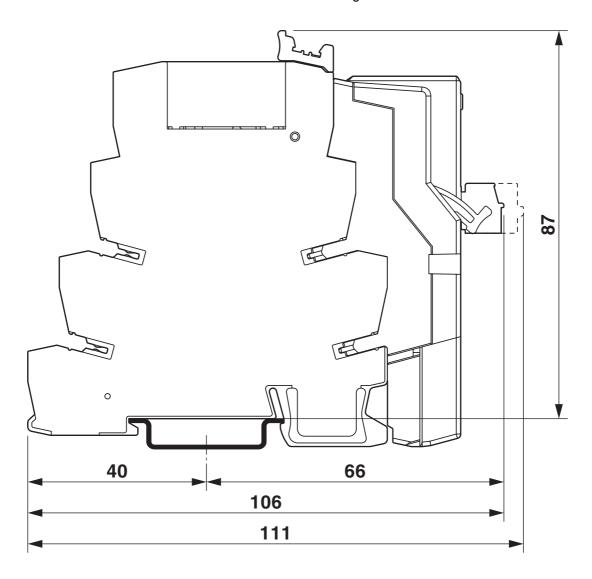




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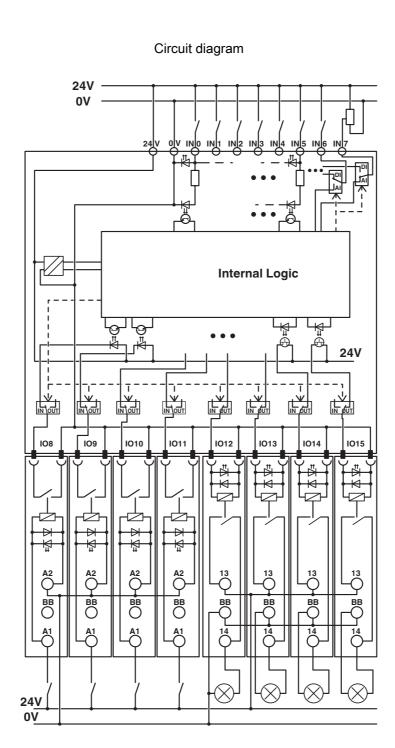
### Dimensional drawing





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 $\approx$ 

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# Circuit diagram PLC-V8C/.../EM PLC-V8C/.../BM PLC-V8C/.../EM Internal Logic PLC-INTERFACE

Circuit diagram

# PLC-V8C... 2904690 PLC-OSC-24DC/48DC/100/V8C/SEN 14 13 14 13 2966333 PLC-RSC-230UC/ 1AU/SEN

BB

24 V 0 V **A2** 

BB

**A1** 

230 V

**A2** 



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### **Approvals**

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

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### Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-11.0	27242216
ECLASS-13.0	27242216
ECLASS-12.0	27242216
ETIM	
ETIM 9.0	EC001417
UNSPSC	

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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#### Accessories

ZBF 19,7:UNBEDRUCKT - Zack marker strips off the roll, flat

0810627

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Zack marker strips off the roll, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 19.7 mm, lettering field size: 19.7 x 5.2 mm, Number of individual labels: 5

### ZBF 19,7 CUS - Zack Marker strip, flat

0825021

https://www.phoenixcontact.com/us/products/0825021



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 19.7 mm, lettering field size: 5.15 x 19.7 mm, Number of individual labels: 5



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#### PLC-RPT- 24DC/21 - Relay module

2900299

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and plug-in miniature relay with power contact, for mounting on NS 35/7,5 DIN rail, 1 changeover contact, input voltage 24 V DC

### PLC-RSC- 24DC/21 - Relay module

2966171

https://www.phoenixcontact.com/us/products/2966171



PLC-INTERFACE, consisting of basic terminal block PLC-BSC.../21 with screw connection and plug-in miniature relay with power contact, for assembly on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC



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#### PLC-RPT-24DC/21/EX - Relay module

2909528

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PLC-INTERFACE, consisting of DIN-rail-mountable basic terminal block in 6. 2 mm with Push-in connection and plug-in miniature relay with 6 A power contact, 1 changeover contact, 24 V DC input voltage. Approved in accordance with ATEX/IECEx (zone 2) and Ex zone Class I, Div. 2.

#### PLC-RSC-24DC/21/EX - Relay module

2909524

https://www.phoenixcontact.com/us/products/2909524



PLC-INTERFACE, consisting of DIN-rail-mountable basic terminal block in 6.2 mm with screw connection and plug-in miniature relay with 6 A power contact, 1 changeover contact, 24 V DC input voltage. Approved according to ATEX/IECEx (Zone 2) and Ex Zone Class I, Div. 2.



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#### PLC-RPT- 24DC/21AU - Relay module

2900306

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

### PLC-RSC- 24DC/21AU - Relay module

2966265

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PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC



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#### PLC-RPT- 24DC/ 1/ACT - Relay module

2900312

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PLC-INTERFACE for output functions, consisting of PLC-BPT.../ACT basic terminal block with push-in connection and plug-in miniature relay with power contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V DC

### PLC-RSC- 24DC/ 1/ACT - Relay module

2966210

https://www.phoenixcontact.com/us/products/2966210



PLC-INTERFACE for output functions, consisting of PLC-BSC.../ACT basic terminal block with screw connection and plug-in miniature relay with power contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V DC



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#### PLC-RPT- 24UC/ 1/S/H - Switch

2900328

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PLC-INTERFACE with switch (operation by hand) and integrated power contact relay for the "Manual, Zero and Automatic" functions, with push-in connection, for mounting on DIN rail NS 35/7.5, one N/O contact, input voltage 24 V AC/DC

#### PLC-RSC- 24UC/ 1/S/H - Switch

2982236

https://www.phoenixcontact.com/us/products/2982236



PLC-INTERFACE with switch (operation by hand) for the "Manual, Zero, and Automatic" functions, with screw connection and integrated power contact relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V AC/DC



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### PLC-OPT- 24DC/ 48DC/100 - Solid-state relay module

2900352

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA

### PLC-OSC- 24DC/ 48DC/100 - Solid-state relay module

2966728

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PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 48 V DC/100 mA



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#### PLC-OPT- 24DC/ 24DC/2 - Solid-state relay module

#### 2900364

https://www.phoenixcontact.com/us/products/2900364



PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/3 A

### PLC-OSC- 24DC/ 24DC/ 2 - Solid-state relay module

#### 2966634

https://www.phoenixcontact.com/us/products/2966634



PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/3 A



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#### PLC-OPT- 24DC/230AC/1 - Solid-state relay module

2900369

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PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A

### PLC-OSC- 24DC/230AC/ 1 - Solid-state relay module

2967840

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PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 24 - 253 V AC/0.75 A



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#### PLC-OPT- 24DC/ 24DC/2/ACT - Solid-state relay module

2900376

https://www.phoenixcontact.com/us/products/2900376



PLC-INTERFACE for output functions, consisting of PLC-BPT.../ACT basic terminal block with push-in connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/3 A

### PLC-OSC- 24DC/ 24DC/ 2/ACT - Solid-state relay module

2966676

https://www.phoenixcontact.com/us/products/2966676



PLC-INTERFACE for output functions, consisting of PLC-BSC.../ACT basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/3 A



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### PLC-OSC- 24DC/230AC/ 1/ACT - Solid-state relay module

2967947

https://www.phoenixcontact.com/us/products/2967947



PLC-INTERFACE for output functions, consisting of PLC-BSC.../ACT basic terminal block with screw connection and plug-in miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 24 ... 253 V AC/0.75 A

### PLC-OPT- 24DC/300DC/1 - Solid-state relay module

2900383

https://www.phoenixcontact.com/us/products/2900383



PLC-INTERFACE, integrated solid-state relay, with push-in connection, for mounting on NS 35/7,5 DIN rails, input: 24 V DC, output: 12 - 300 V DC/1 A



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### PLC-OSC- 24DC/300DC/ 1 - Solid-state relay module

2980678

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PLC-INTERFACE, integrated solid-state relay, with screw connection, for mounting on NS 35/7,5 DIN rails, input: 24 V DC, output: 12 - 300 V DC/1 A

### PLC-OPT- 24DC/ 24DC/10/R - Solid-state relay module

2900398

https://www.phoenixcontact.com/us/products/2900398



PLC-INTERFACE with confirmation contact, consisting of basic terminal block with push-in connection and integrated miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 - 33 V DC/10 A



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### PLC-OSC- 24DC/ 24DC/ 10/R - Solid-state relay module

2982702

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PLC-INTERFACE with checkback contact, consisting of basic terminal block with screw connection and integrated miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: 3 ... 33 V DC/10 A

#### PLC-OPT- 24DC/ 48DC/500/W - Solid-state relay module

2900378

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PLC-INTERFACE with electronic changeover contact, consisting of PLC-BPT.../21 basic terminal block with Push-in connection and integrated miniature solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input: 24 V DC, output: 3-48 V DC/500 mA



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### PLC-OSC- 24DC/ 48DC/500/W - Solid-state relay module

2980636

https://www.phoenixcontact.com/us/products/2980636



PLC-INTERFACE with electronic changeover contact, consisting of PLC-BSC... /21 basic terminal block with screw connection and integrated miniature solid-state relay, for mounting on NS 35/7,5 DIN rail, 1 changeover contact, input: 24 V DC, output: 3 V DC ... 48 V DC/500 mA

### PLC-OPT- 24DC/TTL - Solid-state relay module

2900363

https://www.phoenixcontact.com/us/products/2900363



PLC-INTERFACE for TTL signal, consisting of PLC-O.../TTL basic terminal block with push-in connection and integrated solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input: 24 V DC, output: TTL (5 V DC)



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#### PLC-OSC- 24DC/TTL - Solid-state relay module

2982728

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PLC solid-state relay with screw connection, for mounting on DIN rail NS 35/7.5, input: 24 V DC, output: TTL (5 V DC)

### PLC-RPT- 24DC/ 1AU/SEN - Relay module

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PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN basic terminal block with push-in connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V DC



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#### PLC-RSC- 24DC/ 1AU/SEN - Relay module

2966317

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PLC-INTERFACE for input functions, consisting of PLC-BSC.../SEN basic terminal block with screw connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 24 V DC

#### PLC-RPT-120UC/ 1AU/SEN - Relay module

2900314

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PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN basic terminal block with push-in connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 120 V AC/110 V DC



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#### PLC-RSC-120UC/ 1AU/SEN - Relay module

2966320

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PLC-INTERFACE for input functions, consisting of PLC-BSC.../SEN basic terminal block with screw connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 120 V AC/110 V DC

#### PLC-RPT-230UC/ 1AU/SEN - Relay module

2900315

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PLC-INTERFACE for input functions, consisting of PLC-BPT.../SEN basic terminal block with push-in connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 230 V AC/220 V DC



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### PLC-RSC-230UC/ 1AU/SEN - Relay module

2966333

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PLC-INTERFACE for input functions, consisting of PLC-BSC.../SEN basic terminal block with screw connection and plug-in miniature relay with multi-layer gold contact, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage 230 V AC/220 V DC

#### PLC-OPT-24DC/V8C/SEN - Solid-state relay module

2908172

https://www.phoenixcontact.com/us/products/2908172



PLC-INTERFACE for input functions with PLC logic, with Push-in connection and plug-in miniature solid-state relay, for mounting on a DIN rail, 1 N/O contact, input: 24 V DC



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#### PLC-OSC-24DC/V8C/SEN - Solid-state relay module

2908173

https://www.phoenixcontact.com/us/products/2908173



PLC-INTERFACE for input functions with PLC logic, with screw connection and plug-in miniature solid-state relay, for mounting on a DIN rail, 1 N/O contact, input: 24 V DC

#### PLC-OPT-120UC/V8C/SEN - Solid-state relay module

2908174

https://www.phoenixcontact.com/us/products/2908174



PLC-INTERFACE for input functions with PLC logic, with Push-in connection and plug-in miniature solid-state relay, for mounting on a DIN rail, 1 N/O contact, input: 120 V AC/110 V DC



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#### PLC-OSC-120UC/V8C/SEN - Solid-state relay module

2908175

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PLC-INTERFACE for input functions with PLC logic, with screw connection and plug-in miniature solid-state relay, for mounting on a DIN rail, 1 N/O contact, input: 120 V AC/110 V DC

### PLC-OPT-230UC/V8C/SEN - Solid-state relay module

2908176

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PLC-INTERFACE for input functions with PLC logic, with Push-in connection and plug-in miniature solid-state relay, for mounting on a DIN rail, 1 N/O contact, input: 230 V AC/220 V DC



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### PLC-OSC-230UC/V8C/SEN - Solid-state relay module

2908177

https://www.phoenixcontact.com/us/products/2908177



PLC-INTERFACE for input functions with PLC logic, with screw connection and plug-in miniature solid-state relay, for mounting on a DIN rail, 1 N/O contact, input: 230 V AC/220 V DC

### PLC-BPT- 24DC/21 - Relay base

2900445

https://www.phoenixcontact.com/us/products/2900445



 $6.2~\rm mm$  PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC



2905137

https://www.phoenixcontact.com/us/products/2905137

### PLC-BSC- 24DC/21 - Relay base

#### 2966016

https://www.phoenixcontact.com/us/products/2966016



6.2 mm PLC basic terminal block with screw connection, without relay or solidstate relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 24 V DC

### PLC-BPT- 24DC/ 1/SEN - Relay base

#### 2900262

https://www.phoenixcontact.com/us/products/2900262



6.2 mm PLC basic terminal block for input functions with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC



2905137

https://www.phoenixcontact.com/us/products/2905137

#### PLC-BSC- 24DC/ 1/SEN - Relay base

2966061

https://www.phoenixcontact.com/us/products/2966061



6.2 mm PLC basic terminal block for input functions with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with sensor supply voltage distribution (BB), 1 N/O contact, input voltage 24 V DC

#### SZS 0,4X2,5 VDE - Screwdriver

1205037

https://www.phoenixcontact.com/us/products/1205037



Screwdriver, slot-headed, VDE insulated, size:  $0.4 \times 2.5 \times 80$  mm, 2-component grip, with non-slip grip

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