PLC-V8L/FLK14/OUT/M - System connection

2304306

https://www.phoenixcontact.com/us/products/2304306

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V8 adapter for 8 x PLC-INTERFACE (14 mm), controller: PLC system cabling of output cards, connection 1: IDC/FLK pin strip 1x 14-position, connection 2: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), connection 3: Screw connection 1x 2-position, number of channels: 8, control logic: minusschaltend

Commercial data

Item number	2304306
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	CK21C1
Catalog page	Page 427 (C-5-2019)
GTIN	4017918932916
Weight per piece (including packing)	125.5 g
Weight per piece (excluding packing)	76 g
Customs tariff number	85389099
Country of origin	DE

Technical data

Product properties

Product type	Interface module
Product family	PLC-INTERFACE
Number of positions	14
No. of channels	8

Insulation characteristics

Insulation	Functional insulation

Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage range	18 V DC ... 33.6 V DC
Current (per branch)	≤ 1 A
Current (Power supply)	≤ 3 A

Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV (1.2/50 µs)

Supported controller SIEMENS S7-1500

Suitable I/O card	6ES7522-1BP50-0AA0
	6ES7523-1BP50-0AA0 (DQ32)

Supported controller ABB S800 I/O

Suitable I/O card	DO814
	DO818

Supported controller MITSUBISHI MELSEC Q

Suitable I/O card	QX42
	QX42-S1
	QH42P

Supported controller MITSUBISHI MELSEC L

Suitable I/O card	LY41NT1P
	LY42NT1P

Connection data

Connection 1 (control level)

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK pin strip

Number of connections	1
Number of positions	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Connection 2 (field level)

Connection method	Plug-in connection
Note	Can be snapped onto 8x PLC-INTERFACE terminals

Connection 3 (supply)

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of connections	1
Number of positions	2
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 12

Signaling

Status display present	Yes
Operating voltage display	Green LED

Dimensions

Item dimensions

Width	112.3 mm
Height	41 mm
Depth	56.17 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Housing insulation material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection (Module)	IP20
Degree of protection (Installation location)	≥ IP54
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	≤ 2000 m

Approvals

CE

Certificate	CE-compliant

UKCA

Certificate	UKCA-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

Shipbuilding approval

Certificate	TAE0000196

DNV GL data

Temperature	D
Humidity	A
Vibration	C
EMC	B
Enclosure	Required protection according to the Rules shall be provided upon installation on board

EMC data

Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1

Mounting

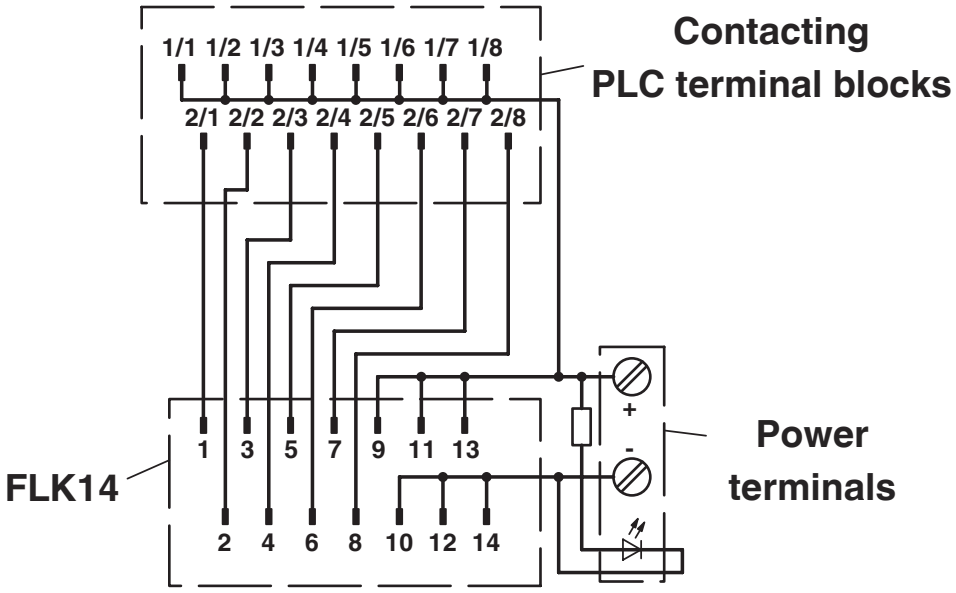
Mounting type	Plug-on assembly
Assembly instructions	in rows with zero spacing
Mounting position	any

Notes

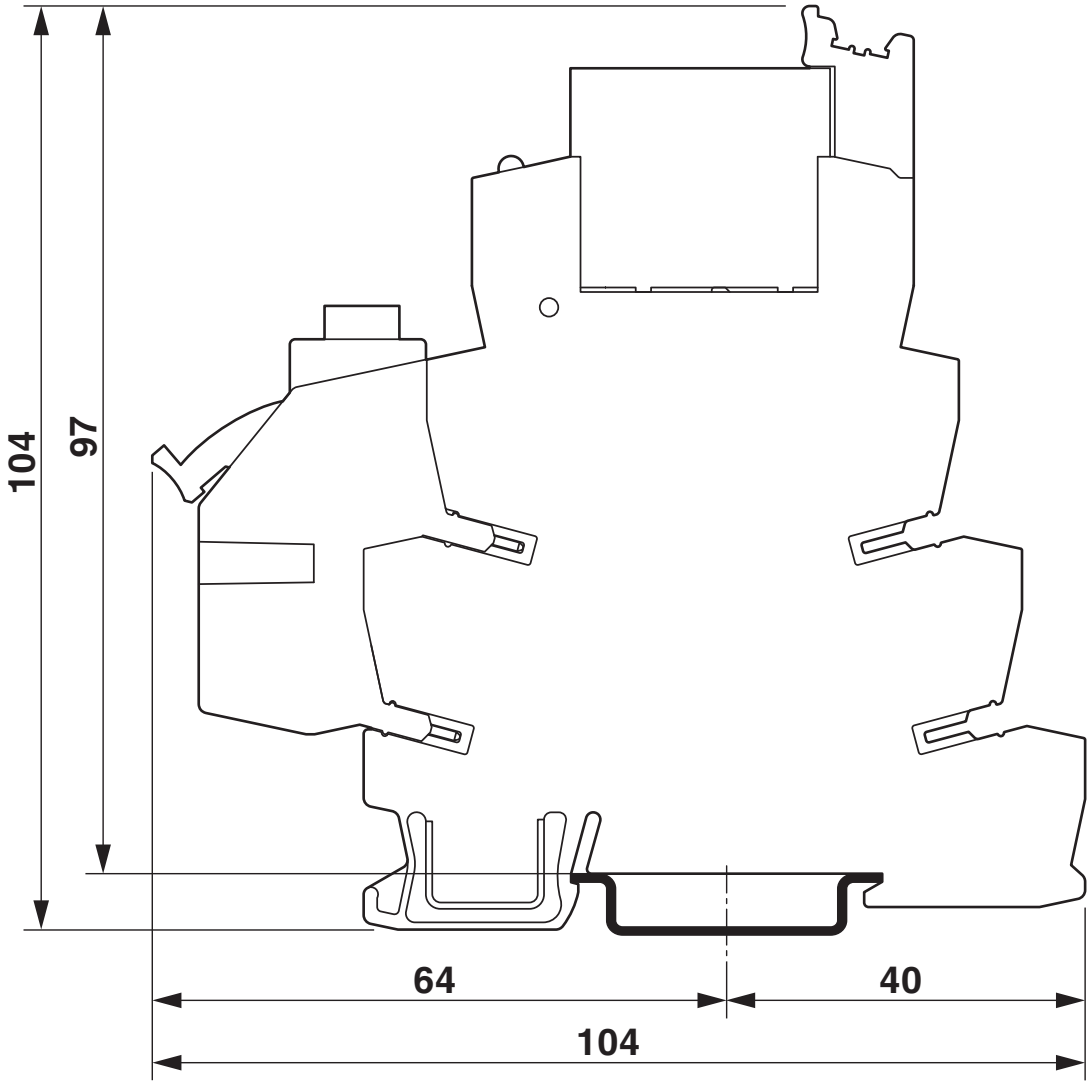
General	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.

Drawings

Circuit diagram



Dimensional drawing



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2304306

cUL Recognized
Approval ID: FILE E 238705

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	24 V	1 A	-	-

UL Recognized
Approval ID: FILE E 238705

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	24 V	1 A	-	-

DNV GL
Approval ID: TAE0000196

UL Listed
Approval ID: FILE E 172140

cUL Listed
Approval ID: FILE E 172140

cUL Listed
Approval ID: FILE E 199827

UL Listed
Approval ID: FILE E 199827

cULus Recognized

cULus Listed

cULus Listed

Classifications

ECLASS

ECLASS-11.0	27141152
ECLASS-13.0	27141152
ECLASS-12.0	27141152

ETIM

ETIM 9.0	EC002780

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	4ab30cf3-0e55-4654-a447-63bfa0105459

Mandatory accessories

PLC-RPT- 24DC/21HC - Relay Module

2900291

https://www.phoenixcontact.com/us/products/2900291

PLC-INTERFACE for high continuous currents, consisting of PLC-BPT.../21 HC basic terminal block with Push-in connection and plug-in miniature relay, for mounting on DIN rail NS 35/7,5, limiting continuous current up to 10 A, 1 changeover contact, input voltage 24 V DC

PLC-RSC- 24DC/21HC - Relay Module

2967620

https://www.phoenixcontact.com/us/products/2967620

PLC-INTERFACE for high continuous currents, consisting of PLC-BSC.../21 HC basic terminal block with screw connection and plug-in miniature relay, for mounting on NS 35/7,5 DIN rail, limiting continuous current up to 10 A, 1 changeover contact, input voltage 24 V DC

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

2900283

https://www.phoenixcontact.com/us/products/2900283

14 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 changeover contacts, input voltage 24 V DC

PLC-RSC- 24DC/21-21 - Relay Module

2967060

https://www.phoenixcontact.com/us/products/2967060

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, 2 changeover contacts, input voltage 24 V DC

PLC-RPT- 24DC/21-21AU - Relay Module

2900338

https://www.phoenixcontact.com/us/products/2900338

PLC-INTERFACE, consisting of PLC-BPT.../21-21 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, 2 changeover contacts, input voltage 24 V DC

PLC-RSC- 24DC/21-21AU - Relay Module

2967125

https://www.phoenixcontact.com/us/products/2967125

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, 2 changeover contacts, input voltage 24 V DC

PLC-RPT- 24DC/ 1IC/ACT - Relay Module

2900298

https://www.phoenixcontact.com/us/products/2900298

PLC-INTERFACE for high switch-on currents, consisting of PLC-BPT.../1 IC/ACT basic terminal block with push-in connection and plug-in miniature relay, for mounting on DIN rail NS 35/7,5, max. switch-on current up to 130 A, 1 N/O contact, input voltage 24 V DC

PLC-RSC- 24DC/ 1IC/ACT - Relay Module

2967604

https://www.phoenixcontact.com/us/products/2967604

PLC-INTERFACE for high switch-on currents, consisting of PLC-BSC.../1 IC/ACT basic terminal block with screw connection and plug-in miniature relay, for mounting on DIN rail NS 35/7,5, max. switch-on current up to 130 A, 1 N/O contact, input voltage 24 V DC

PLC-RSC- 24DC/ 1- 1/ACT - Relay Module

2967109

https://www.phoenixcontact.com/us/products/2967109

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, 2 N/O contacts (1-1), input voltage 24 V DC

PLC-OSC- 24DC/ 24DC/ 5/ACT - Solid-state relay module

2982786

https://www.phoenixcontact.com/us/products/2982786

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/5 A

PLC-OSC- 24DC/230AC/ 2/ACT - Solid-state relay module

2982760

https://www.phoenixcontact.com/us/products/2982760

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/2 A

PLC-RSC- 24DC/21-21/MS - Relay Module

2910502

https://www.phoenixcontact.com/us/products/2910502

PLC-INTERFACE, consisting of a relay base and pluggable power contact relay with manual operation, integrated status LED and freewheeling diode, Screw connection, 2 changeover contacts, Freewheeling diode, Input voltage: 24 V DC

PLC-RSC- 24DC/21-21AU/MS - Relay Module

2910507

https://www.phoenixcontact.com/us/products/2910507

PLC-INTERFACE, consisting of a relay base and pluggable multilayer gold contact relay with manual operation, integrated status LED and freewheeling diode, Screw connection, 2 changeover contacts, Freewheeling diode, Input voltage: 24 V DC

PLC-RSC- 24DC/21HC/MS - Relay Module

2910514

https://www.phoenixcontact.com/us/products/2910514

PLC-INTERFACE, consisting of a relay base and pluggable power contact relay with manual operation, integrated status LED and freewheeling diode, Screw connection, 1 changeover contact, Polarity protection diode, Freewheeling diode, Input voltage: 24 V DC

PLC-RPT- 24DC/21-21/MS - Relay Module

2910519

https://www.phoenixcontact.com/us/products/2910519

PLC-INTERFACE, consisting of a relay base and pluggable power contact relay with manual operation, integrated status LED and freewheeling diode, Push-in connection, 2 changeover contacts, Freewheeling diode, Input voltage: 24 V DC

PLC-RPT- 24DC/21-21AU/MS - Relay Module

2910524

https://www.phoenixcontact.com/us/products/2910524

PLC-INTERFACE, consisting of a relay base and pluggable multilayer gold contact relay with manual operation, integrated status LED and freewheeling diode, Push-in connection, 2 changeover contacts, Freewheeling diode, Input voltage: 24 V DC

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PLC-RPT- 24DC/21HC/MS - Relay Module

2910530

https://www.phoenixcontact.com/us/products/2910530

PLC-INTERFACE, consisting of a relay base and pluggable power contact relay with manual operation, integrated status LED and freewheeling diode, Push-in connection, 1 changeover contact, Polarity protection diode, Freewheeling diode, Input voltage: 24 V DC

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