

# PLC-V8/FLK14/IN - System connection



2296553

<https://www.phoenixcontact.com/us/products/2296553>

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V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of input 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: positive switching

## Commercial data

Item number	2296553
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C421
Product key	DK21D1
GTIN	4017918189150
Weight per piece (including packing)	107.5 g
Weight per piece (excluding packing)	100 g
Customs tariff number	85366990
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: 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	6ES7521-1BH00-0AB0
	6ES7521-1BL00-0AB0
	6ES7521-1BP00-0AA0 (Sinking mode)
	6ES7523-1BP50-0AA0 (DI32 (Sinking mode))

### Supported controller ABB S800 I/O

Suitable I/O card	DI810
	DI818
	DI830
	DI840

### Supported controller ALLEN-BRADLEY ControlLogix

Suitable I/O card	1756-IB32
	1756-IB16

### Supported controller SIEMENS S7-400

Suitable I/O card	6ES7421-1BL01-0AA0
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### Supported controller HONEYWELL Experion PKS C200

Suitable I/O card	TC-IDD 321
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### Supported controller MITSUBISHI MELSEC Q

Suitable I/O card	QX81
	QX82

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	QX82-S1
Supported controller MITSUBISHI MELSEC L	
Suitable I/O card	LX41C4
	LX42C4
Supported controller SIEMENS S7-300 / ET 200 M	
Suitable I/O card	CPU 313C-2DP
	CPU 314C-2DP
	CPU 314C-2PtP
	6ES7321-1BH02-0AA0
	6ES7321-1BL00-0AA0
	6ES7323-1BH01-0AA0
	6ES7323-1BL00-0AA0
	6ES7321-1BH10-0AA0
	CPU 313C
	CPU 313C-2PtP
Supported controller SCHNEIDER ELECTRIC Modicon TSX QUANTUM	
Suitable I/O card	DDI 353
	DDI 853
Supported controller EMERSON DeltaV	
Suitable I/O card	VE4001S2T2B3
Supported controller GE-FANUC RX3i	
Suitable I/O card	IC694MDL660
Supported controller YOKOGAWA CS3000 CentumVP	
Suitable I/O card	ADV151
	ADV161
Supported controller YOKOGAWA STARDOM	
Suitable I/O card	NFDV151
	NFDV161

## 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
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Note	Can be snapped onto 8x PLC-INTERFACE terminals
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## 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 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrule without plastic sleeve)
	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Ferrule without plastic sleeve)
	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm
Pitch	5 mm

## Signaling

Status display present	yes
Operating voltage display	Green LED

## Dimensions

### Item dimensions

Width	49.93 mm
Height	41 mm
Depth	55.8 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Housing insulation material	Polyamide 6.6 green

## 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
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### UKCA

Certificate	UKCA-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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### Shipbuilding approval

Certificate	TAE0000196
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### Shipbuilding 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

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

## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
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## Mounting

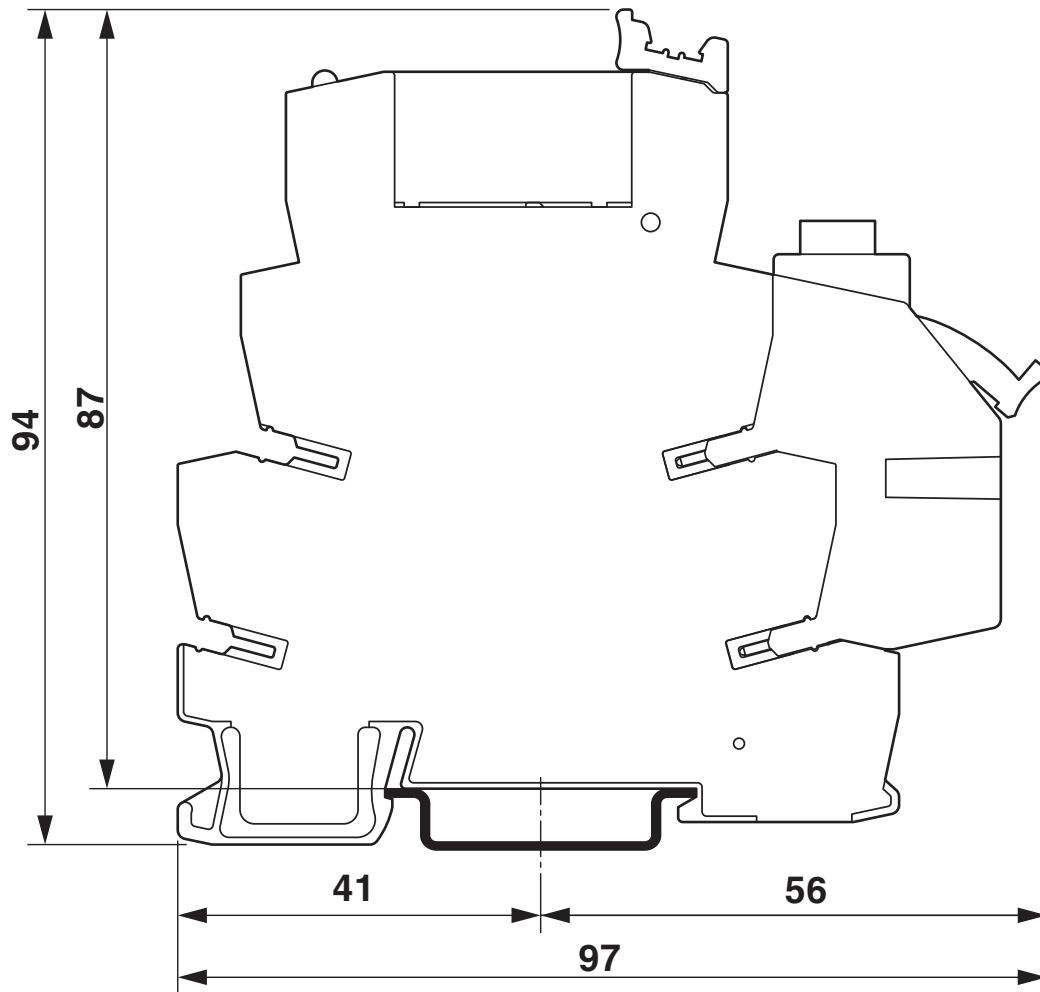
Mounting type	Plug-on assembly
Assembly note	in rows with zero spacing
Mounting position	any

## Notes

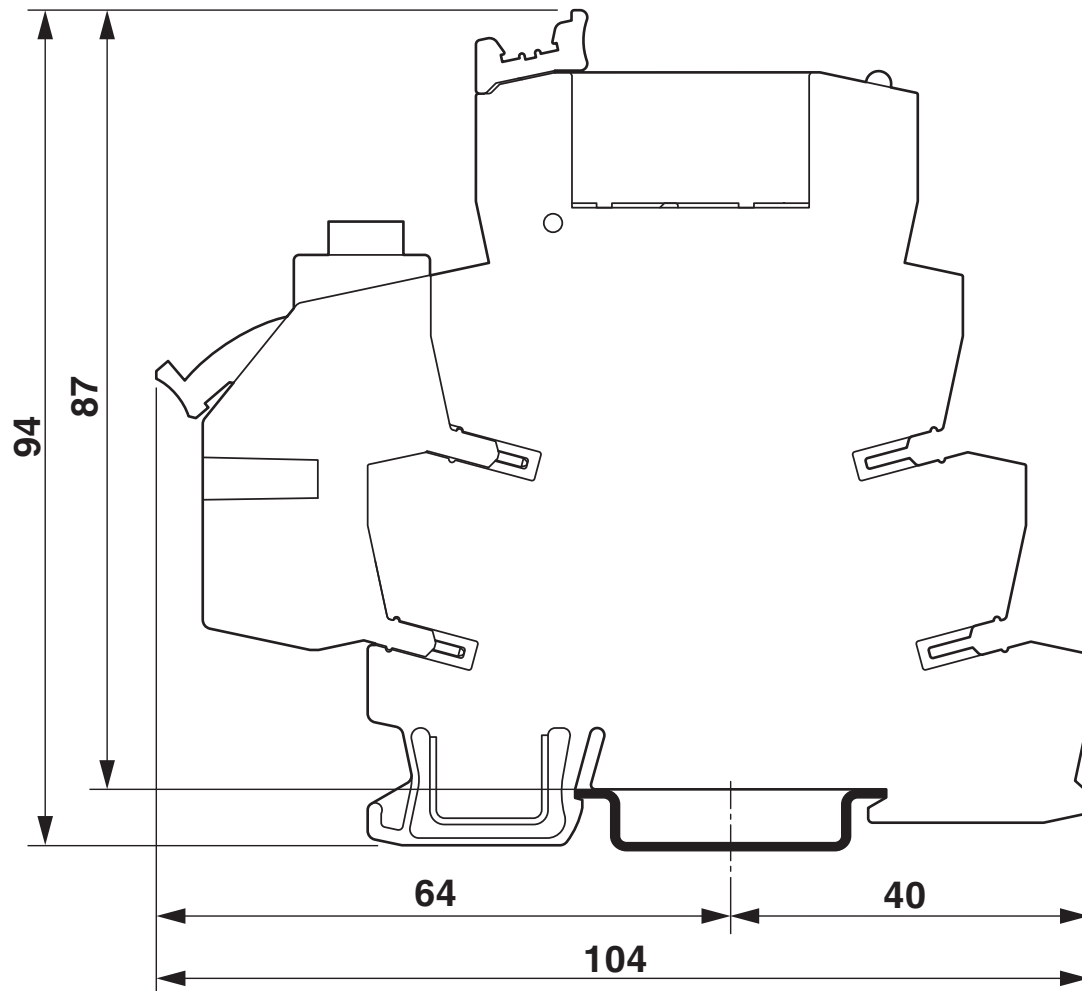
Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.
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##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

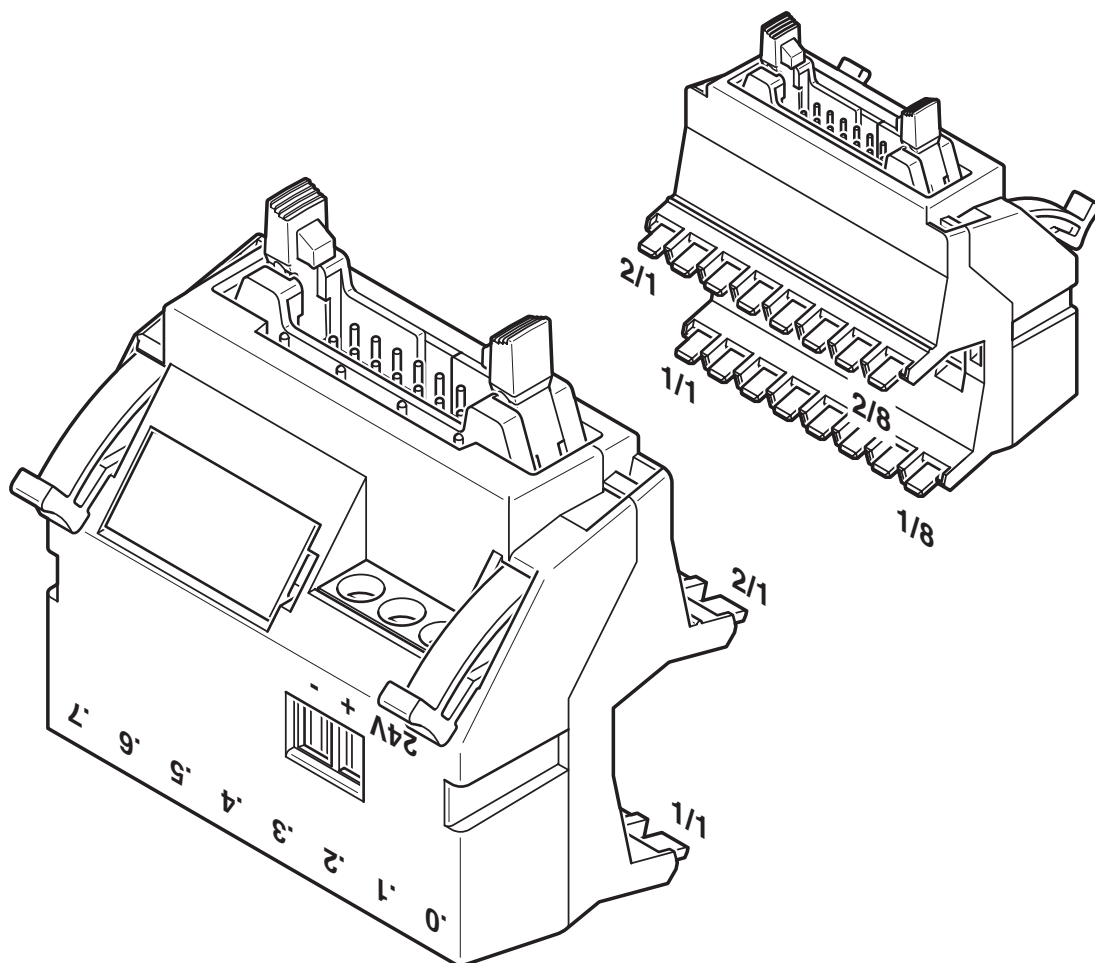
Dimensional drawing



Dimensional drawing



Schematic diagram

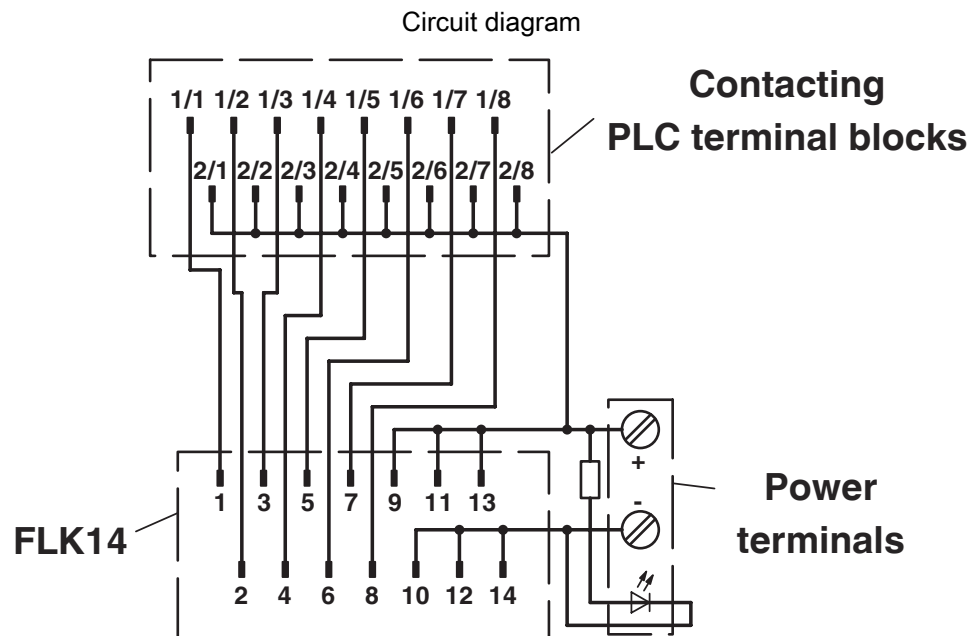




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Connection scheme: PLC-V8/FLK14/IN

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2296553>

	<b>cUL Recognized</b> Approval ID: E238705			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	24 V	1 A	-	-

	<b>UL Recognized</b> Approval ID: E238705			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	24 V	1 A	-	-

	<b>DNV GL</b> Approval ID: TAE0000196
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	<b>UL Listed</b> Approval ID: FILE E 172140
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	<b>cUL Listed</b> Approval ID: FILE E 172140
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	<b>cUL Listed</b> Approval ID: E199827
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	<b>UL Listed</b> Approval ID: E199827
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Classifications

ECLASS

ECLASS-13.0	27141152
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ETIM

ETIM 9.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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## 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	549f71ec-7757-4ec2-b26b-19af5b5c91c4

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