

PLC-V8/FLK14/IN - System connection



2296553

<https://www.phoenixcontact.com/it/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: plusschaltend

Commercial data

Item number	2296553
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CK2
Product key	CK21C1
Catalog page	Page 427 (C-5-2019)
GTIN	4017918189150
Weight per piece (including packing)	107.5 g
Weight per piece (excluding packing)	100 g
Customs tariff number	85369010
Country of origin	DE

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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
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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
	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
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Supported controller GE-FANUC RX3i

Suitable I/O card	IC694MDL660
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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

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Pitch	2.54 mm
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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 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

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

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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 nA IIC Gc T4 X
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UL, USA

Identification	Class I, Zone 2, AEx nA IIC T4
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Shipbuilding approval

Certificate	TAE0000196
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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
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Mounting

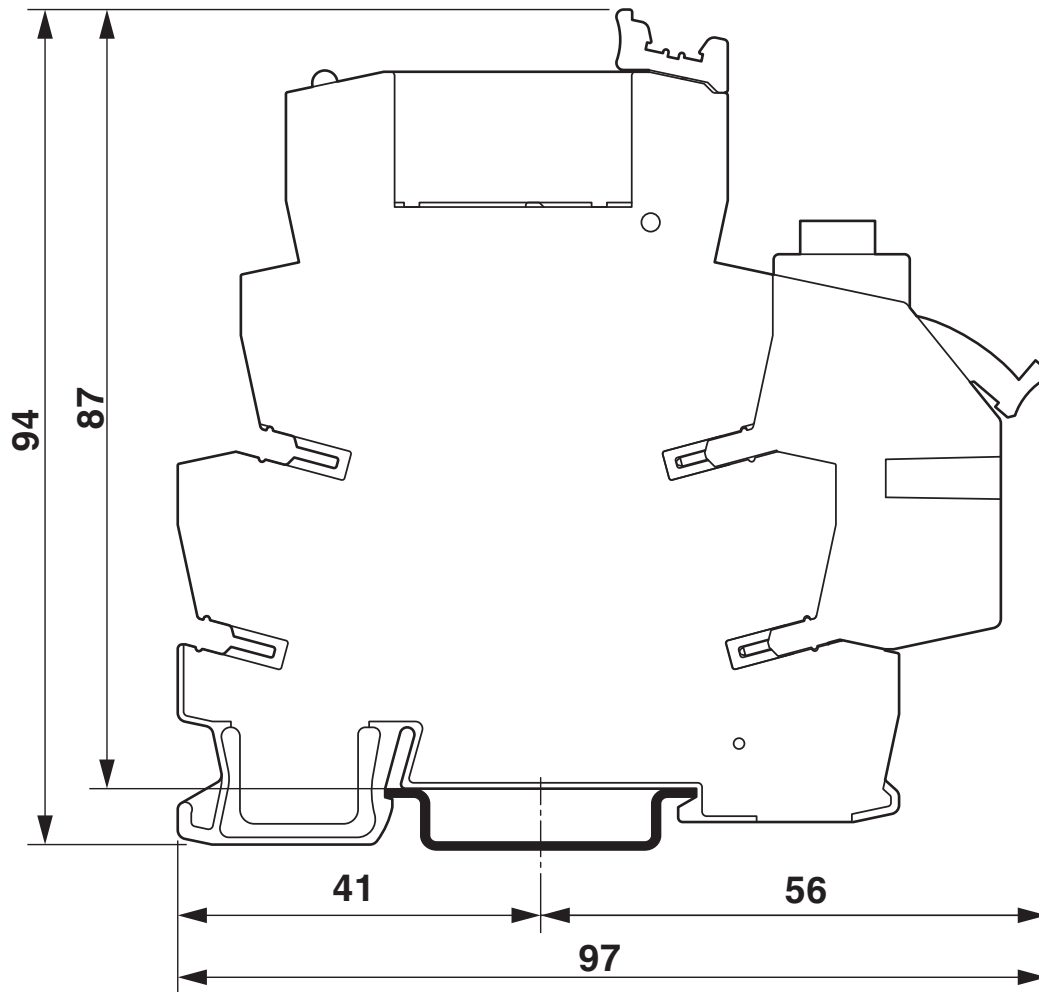
Mounting type	Plug-on assembly
Assembly instructions	in rows with zero spacing
Mounting position	any

Notes

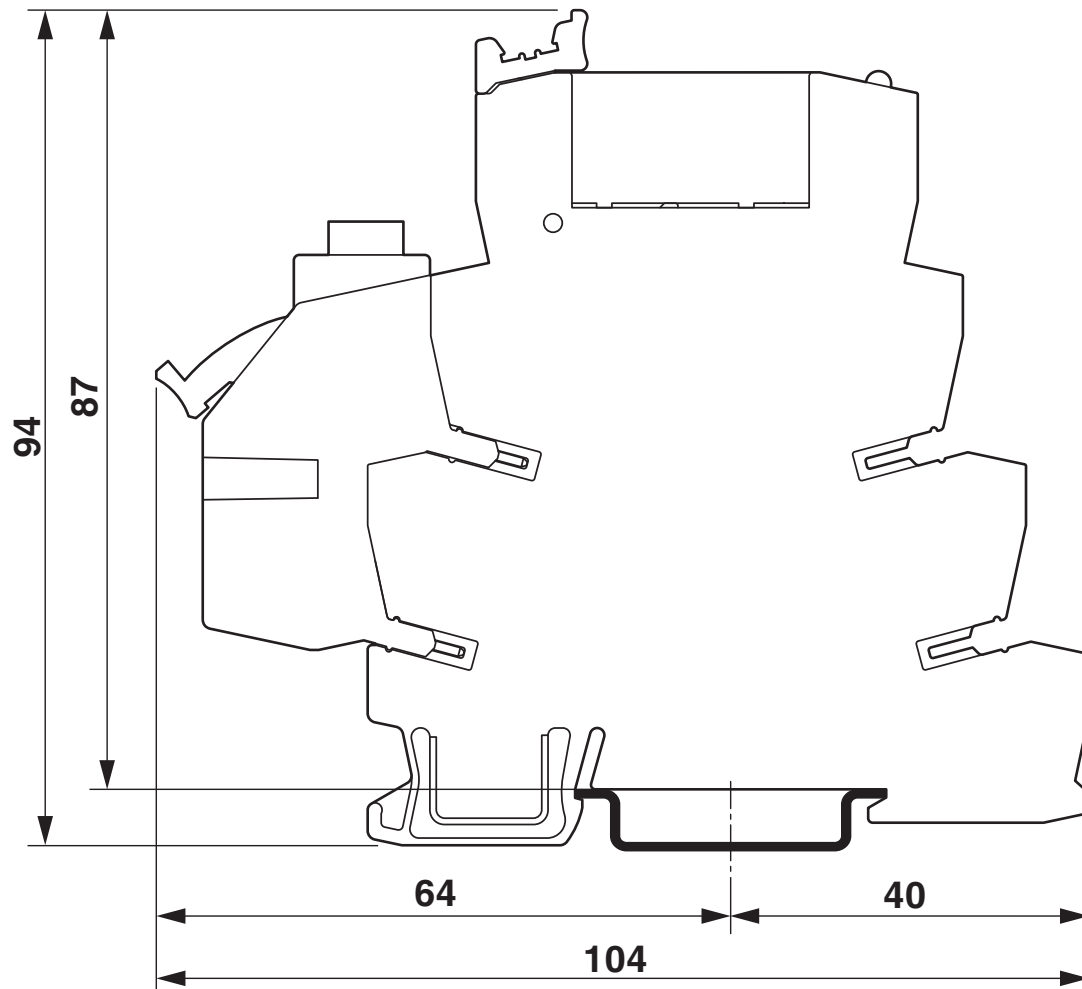
General	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.
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Drawings

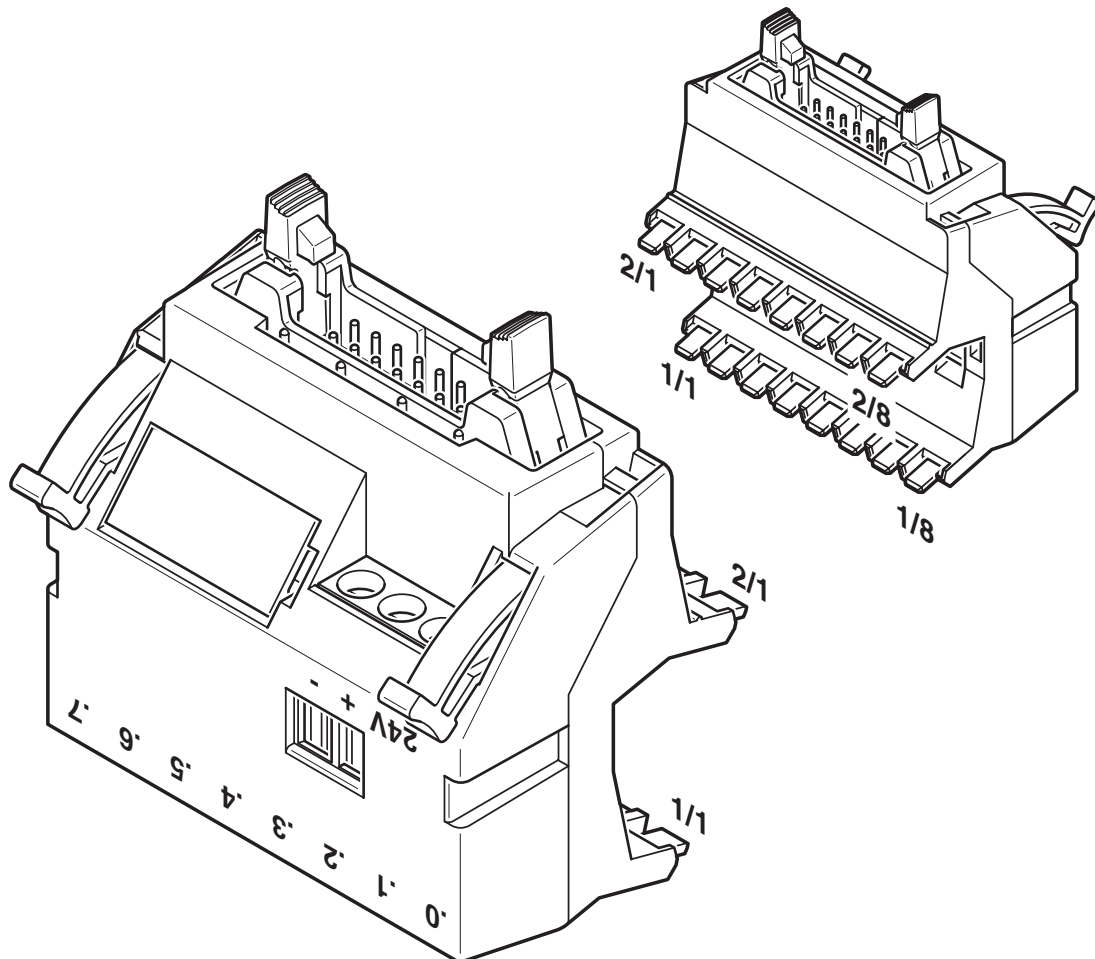
Dimensional drawing



Dimensional drawing



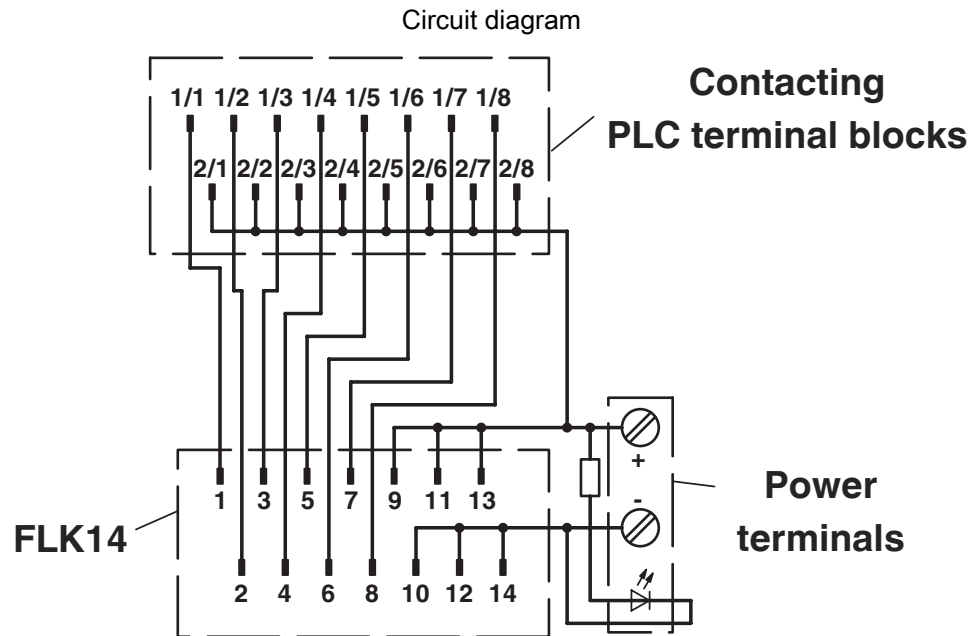
Schematic diagram



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Approvals


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


 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				
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 UL Listed Approval ID: FILE E 172140				
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 cUL Listed Approval ID: FILE E 172140				
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 cUL Listed Approval ID: FILE E 199827				
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 UL Listed Approval ID: FILE E 199827				
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cULus Recognized				
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cULus Listed				
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cULus Listed				
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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
	Hexahydromethylphthalic anhydride
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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