

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 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 |
|-------------------|--------------------|

Supported controller: HONEYWELL Experion PKS C200

| | |
|-------------------|------------|
| Suitable I/O card | TC-IDD 321 |
|-------------------|------------|

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 |
|------|--|

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 rigid (2 conductors with same cross section) | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| | 0.25 mm ² ... 2.5 mm ² (Ferrule without plastic sleeve) |
| | 0.25 mm ² ... 2.5 mm ² (Ferrule with plastic sleeve) |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.2 mm ² ... 1.5 mm ² |
| | 0.25 mm ² ... 0.75 mm ² (Ferrule without plastic sleeve) |
| | 0.5 mm ² ... 1.5 mm ² (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 |
|-------------|--------------|

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 |
|-------------|------------|

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 |
|-----------------------|----------------|

Mounting

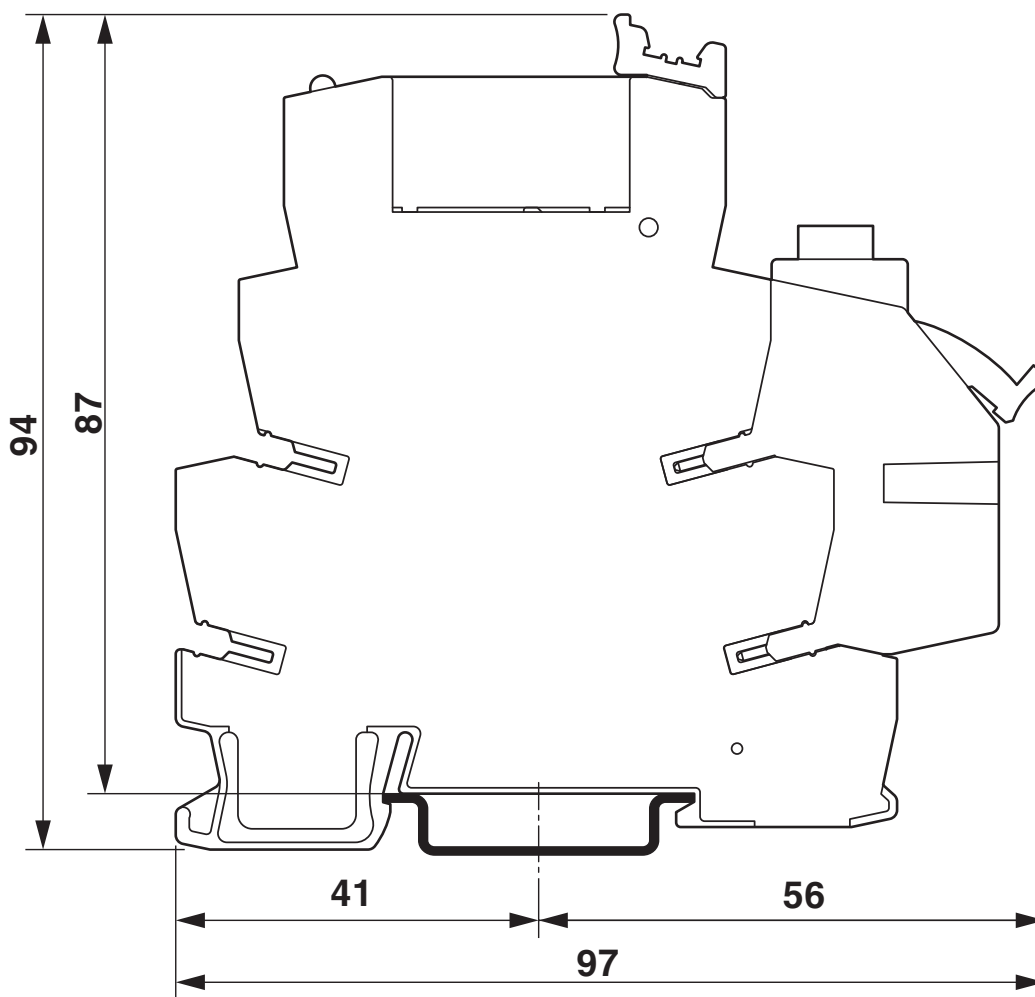
| | |
|-------------------|---------------------------|
| Mounting type | Plug-on assembly |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

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. |
|--------------------|--|

Drawings

Dimensional drawing



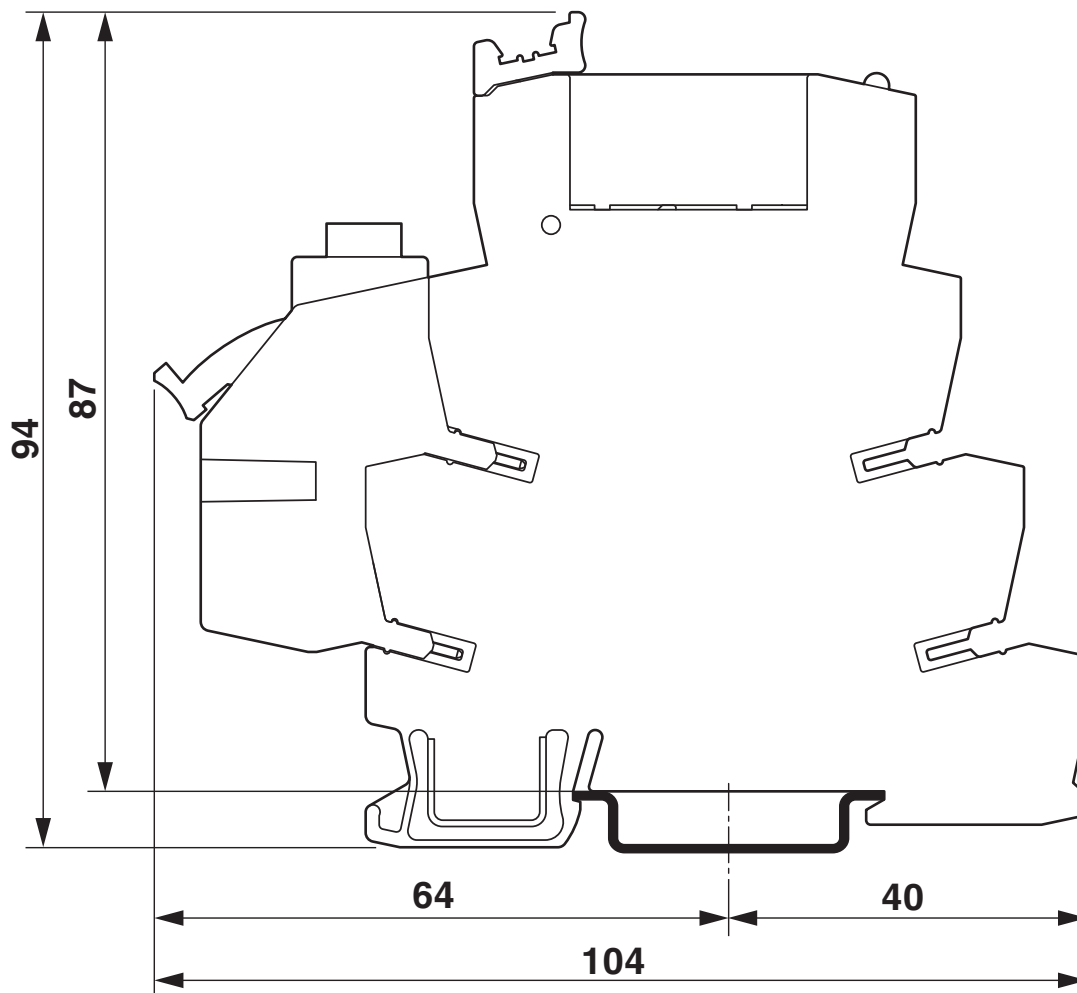
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Dimensional drawing

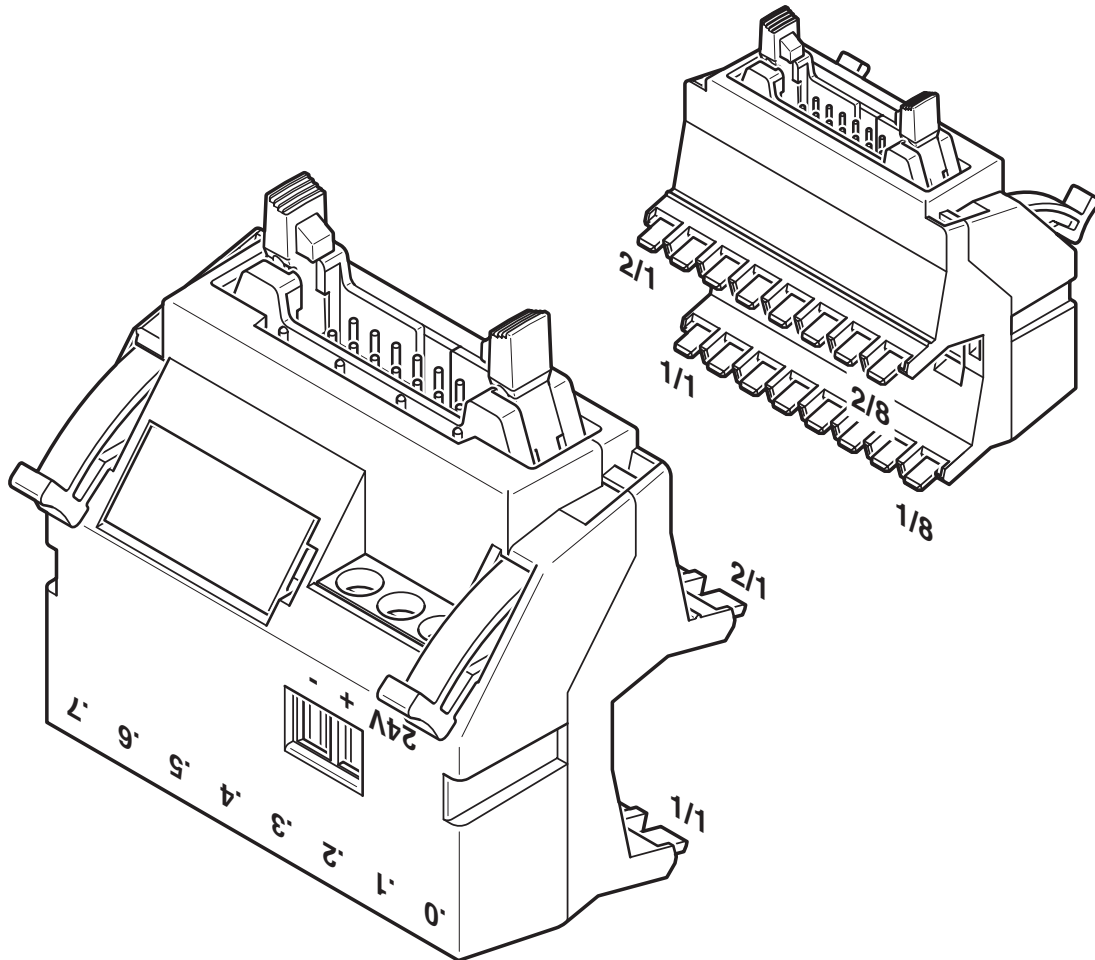


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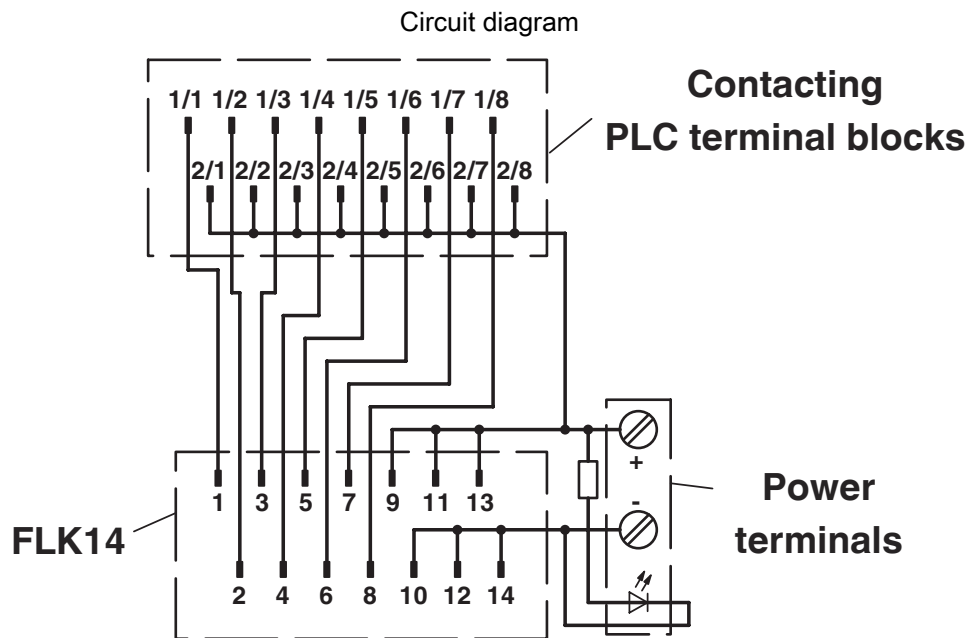
Schematic diagram



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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>


|  cUL Recognized Approval ID: E238705 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 24 V | 1 A | - | - |


|  UL Recognized Approval ID: E238705 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 24 V | 1 A | - | - |

|  UL Listed Approval ID: FILE E 172140 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

|  cUL Listed Approval ID: FILE E 172140 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

| DNV Approval ID: TAE0000196 | | | | |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

|  cUL Listed Approval ID: E199827 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  UL Listed Approval ID: E199827 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 27141152 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002780 |
|-----------|----------|

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 |

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 1.417 kg CO2e |
|---------|---------------|

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