# PLC-V8/FLK14/OUT/M - System connection

2304102

https://www.phoenixcontact.com/us/products/2304102

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V8 adapter for 8 x PLC-INTERFACE (6.2 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 | 2304102 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C421 |
| Product key | DK21D1 |
| GTIN | 4017918924430 |
| Weight per piece (including packing) | 106.2 g |
| Weight per piece (excluding packing) | 100 g |
| Customs tariff number | 85369010 |
| 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 | 6ES7522-1BP50-0AA0 |
| | 6ES7523-1BP50-0AA0 (DQ32) |

Supported controller: ABB S800 I/O

| | |
|---|---|
| Suitable I/O card | DO814 |
| | DO818 |

Supported controller: YOKOGAWA CS3000 CentumVP

| | |
|---|---|
| Suitable I/O card | ADV551 |
| | ADV561 |

Supported controller: YOKOGAWA STARDOM

| | |
|---|---|
| Suitable I/O card | NFDV551 |
| | NFDV561 |

Supported controller: MITSUBISHI MELSEC Q

| | |
|---|---|
| Suitable I/O card | QX41 |
| | QX41-S1 |
| | QX42 |
| | QX42-S1 |
| | QH42P |

Supported controller: MITSUBISHI MELSEC L

| | |
|---|---|
| Suitable I/O card | LX41C4 |

| | |
|---|---|
| | LX42C4 |

## 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 rigid (2 conductors with same cross section) | 0.2 mm² ... 1.5 mm² |
| Conductor cross-section flexible | 0.2 mm² ... 2.5 mm² |
| | 0.25 mm² ... 2.5 mm² (Ferrule without plastic sleeve) |
| | 0.25 mm² ... 2.5 mm² (Ferrule with plastic sleeve) |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.2 mm² ... 1.5 mm² |
| | 0.25 mm² ... 0.75 mm² (Ferrule without plastic sleeve) |
| | 0.5 mm² ... 1.5 mm² (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 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 |

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

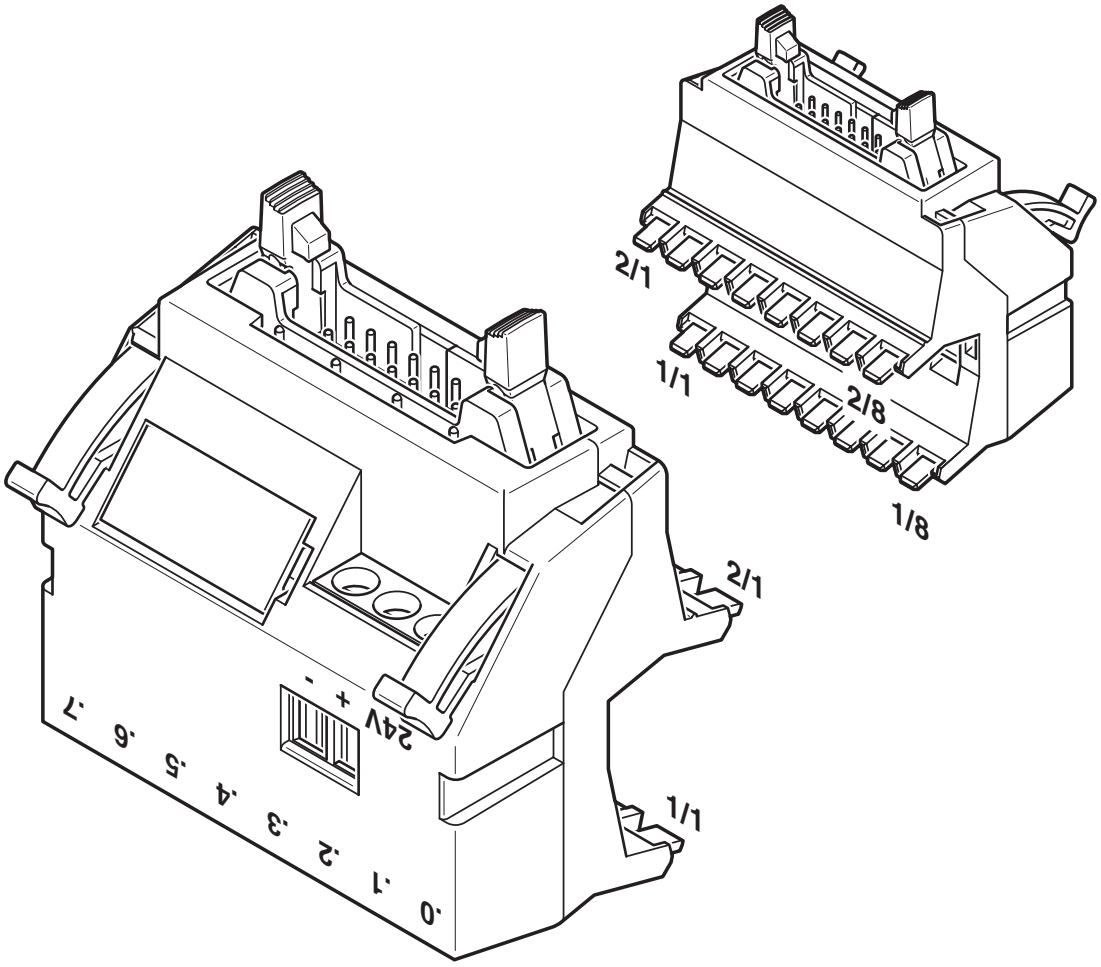
| | |
|---|---|
| Mounting type | Plug-on assembly |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

## Notes

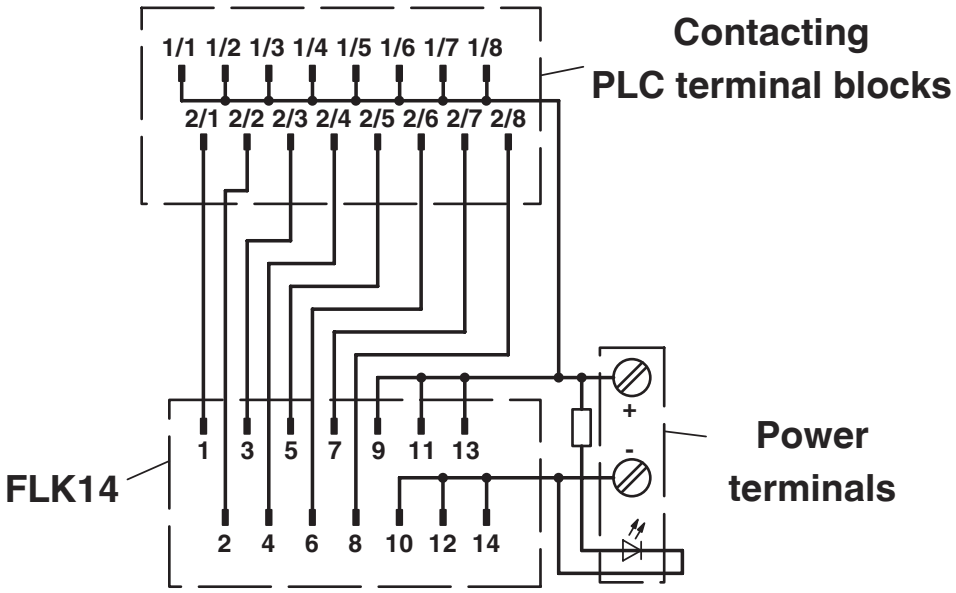
| | |
|---|---|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also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

## Drawings

Schematic diagram



Circuit diagram




PLC-V8/FLK14/OUT/M connection scheme

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2304102

**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

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | 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 | 8714af15-a9b8-4117-9ea1-710aeb8c2e65 |

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