

# PLC-V8/D15B/IN - System connection



2296087

<https://www.phoenixcontact.com/us/products/2296087>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of input cards, connection 1: D-SUB socket strip 1x 15-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                          | 2296087       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK21D2        |
| GTIN                                 | 4017918189136 |
| Weight per piece (including packing) | 110.68 g      |
| Weight per piece (excluding packing) | 110.68 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

## Technical data

### Product properties

|                     |                  |
|---------------------|------------------|
| Product type        | Interface module |
| Product family      | PLC-INTERFACE    |
| Number of positions | 15               |
| 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: HONEYWELL Experion PKS C300/C-Series

|                   |                        |
|-------------------|------------------------|
| Suitable I/O card | TDIL01 (non-redundant) |
|                   | TDIL11 (redundant)     |

## Connection data

### Connection 1 (control level)

|                                  |                    |
|----------------------------------|--------------------|
| Connection in acc. with standard | IEC 60807-2        |
| Connection method                | D-SUB socket strip |
| Screw thread                     | UNC 4-40           |
| Number of connections            | 1                  |
| Number of positions              | 15                 |
| Insertion/withdrawal cycles      | > 500              |
| Pitch                            | 2.74 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                |

# PLC-V8/D15B/IN - System connection



2296087

<https://www.phoenixcontact.com/us/products/2296087>

|   |  |
|---|--|
| 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  | 49.81 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 |
|-------------|----------------|

# PLC-V8/D15B/IN - System connection



2296087

<https://www.phoenixcontact.com/us/products/2296087>

## 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. |
|--------------------|--|

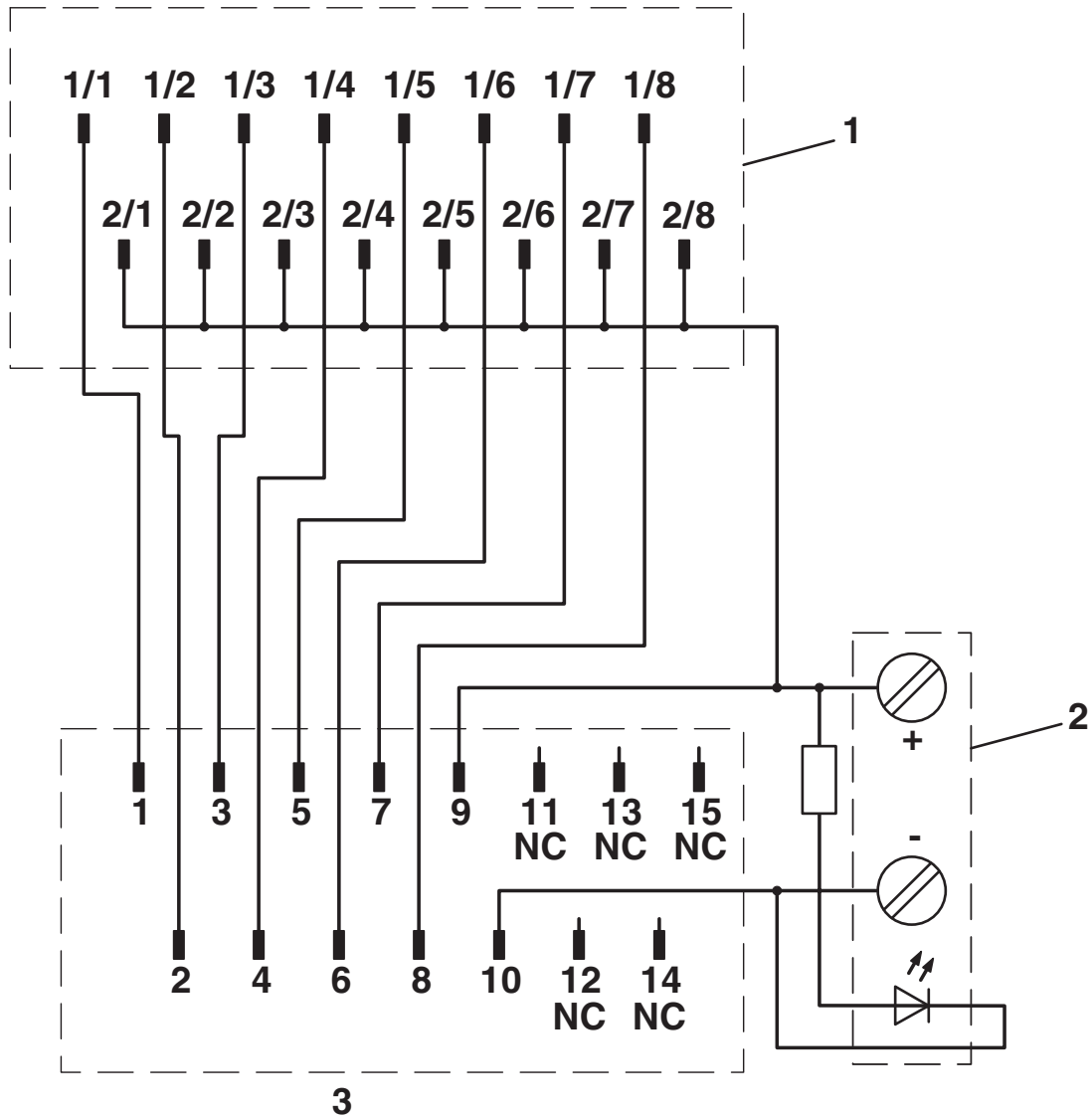
# PLC-V8/D15B/IN - System connection

2296087

<https://www.phoenixcontact.com/us/products/2296087>

## Drawings

Circuit diagram



- 1 = contacting with PLC terminal blocks
- 2 = power terminal blocks
- 3 = D-SUB strip 15-pos.

# PLC-V8/D15B/IN - System connection





2296087


<https://www.phoenixcontact.com/us/products/2296087>


## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2296087>


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


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

|  <b>DNV GL</b><br>Approval ID: TAE0000196 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>UL Listed</b><br>Approval ID: FILE E 172140 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>cUL Listed</b><br>Approval ID: FILE E 172140 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>cUL Listed</b><br>Approval ID: E199827 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>UL Listed</b><br>Approval ID: E199827 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

# PLC-V8/D15B/IN - System connection



2296087

<https://www.phoenixcontact.com/us/products/2296087>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

2296087

<https://www.phoenixcontact.com/us/products/2296087>

## 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                                | e2a1bba2-3093-43ef-a466-fa25aa321689        |

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)