

# P-VAR95-048B KEN-I PHD - Termination board



2909601

<https://www.phoenixcontact.com/us/products/2909601>

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Customer-specific VARIOFACE module for traffic technology (traffic light systems). Contacting of disconnect terminal blocks via varistor circuit and status indicators on FLK connector.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2909601       |
| Packing unit                         | 2 pc          |
| Minimum order quantity               | 50 pc         |
| Product key                          | DK2AZZ        |
| GTIN                                 | 4055626369396 |
| Weight per piece (including packing) | 500 g         |
| Country of origin                    | DE            |

## Technical data

### Product properties

|                     |                  |
|---------------------|------------------|
| Product type        | Interface module |
| Number of positions | 48               |

#### Insulation characteristics: Air clearances and creepage distances

|                      |                       |
|----------------------|-----------------------|
| Insulation           | Functional insulation |
| Overvoltage category | II                    |
| Pollution degree     | 2                     |

### Electrical properties

|   |                            |
|---|----------------------------|
| Operating voltage range                   | 19.2 V DC ... 26.4 V DC    |
| Protective circuit                        | Surge protection; Varistor |
| Current (per branch)                      | ≤ 1 A                      |
| Max. current carrying capacity per branch | 1 A                        |

#### Air clearances and creepage distances

|                          |                    |
|--------------------------|--------------------|
| Rated insulation voltage | 100 V              |
| Rated surge voltage      | 0.8 kV (1.2/50 μs) |

### Connection data

#### Connection 1 (control level)

|                                  |                   |
|----------------------------------|-------------------|
| Connection in acc. with standard | IEC 60603-13      |
| Connection method                | IDC/FLK pin strip |
| Number of connections            | 3                 |
| Number of positions              | 16                |
| Pitch                            | 2.54 mm           |

#### Connection 2 (field level)

|   |  |
|---|--|
| Connection method   | Screw connection with disconnect knife   |
| Stripping length  | 8 mm   |
| Screw thread  | M3   |
| 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 mm <sup>2</sup>                                      |
| Conductor cross-section flexible  | 0.2 mm <sup>2</sup> ... 4 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> ... 1.5 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 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 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)   |
| Conductor cross-section AWG   | 24 ... 12  |
| Tightening torque   | 0.5 Nm ... 0.6 Nm  |
| Pitch   | 5.08 mm  |

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## Connection 3 (supply)

|   |  |
|---|--|
| Connection method   | Screw connection   |
| Stripping length  | 7 mm   |
| Number of connections   | 2  |
| Number of positions   | 2  |
| Conductor cross-section rigid   | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                    |
| Conductor cross-section rigid (2 conductors with same cross section)    | 0.2 mm <sup>2</sup> ... 1 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  |
|   | 0.25 mm <sup>2</sup> ... 1 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   | 5.08 mm  |

## Signaling

|                |              |
|----------------|--------------|
| Status display | LED (green)  |
|                | LED (yellow) |

## Dimensions

### Item dimensions

|        |        |
|--------|--------|
| Width  | 290 mm |
| Height | 95 mm  |
| Depth  | 30 mm  |

## Environmental and real-life conditions

### Ambient conditions

|  |                  |
|--|------------------|
| Degree of protection (Module)                | IP00             |
| Degree of protection (Installation location) | ≥ IP54           |
| Ambient temperature (operation)              | -20 °C ... 50 °C |
| Ambient temperature (storage/transport)      | -20 °C ... 70 °C |
| Altitude                                     | ≤ 2000 m         |

## Standards and regulations

### Air clearances and creepage distances

|                       |                |
|-----------------------|----------------|
| Standards/regulations | EN IEC 60664-1 |
|-----------------------|----------------|

## Mounting

|                   |          |
|-------------------|----------|
| Mounting position | vertical |
|-------------------|----------|

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## 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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## Classifications

### ECLASS

ECLASS-13.0

27141152

### ETIM

ETIM 9.0

EC002780

### UNSPSC

UNSPSC 21.0

39121400

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## Environmental product compliance

### EU RoHS

|   |            |
|---|------------|
| Fulfills EU RoHS substance requirements | Yes        |
| Exemption                               | 6(c), 7(a) |

### 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)                        |

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