

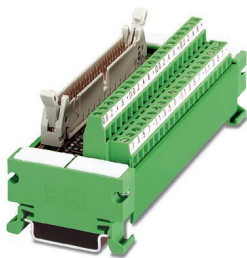
# UM 45-FLK50/LA/PLC - Passive module



2962502

<https://www.phoenixcontact.com/us/products/2962502>

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VARIOFACE COMPACT LINE, interface module for 32 channels, with LED, for assembly on DIN rail NS 35/7.5, screw connection

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2962502                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK21A1                         |
| GTIN                                 | 4017918087203                  |
| Weight per piece (including packing) | 137.2 g                        |
| Weight per piece (excluding packing) | 113.37 g                       |
| Customs tariff number                | 85369010                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                     |                  |
|---------------------|------------------|
| Product type        | Interface module |
| Product family      | VARIOFACE        |
| Number of positions | 50               |
| No. of channels     | 32               |

### 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 |
| Current (per branch)              | ≤ 1 A                   |
| Current (Voltage supply per byte) | ≤ 2 A                   |

### Air clearances and creepage distances

|                          |                    |
|--------------------------|--------------------|
| Rated insulation voltage | 50 V               |
| Rated surge voltage      | 0.5 kV (1.2/50 µs) |

### Supported controller SIEMENS S7-400

|                   |                    |
|-------------------|--------------------|
| Suitable I/O card | 6ES7421-1BL01-0AA0 |
|                   | 6ES7422-1BL00-0AA0 |
|                   | 6ES7422-7BL00-0AB0 |

### Supported controller ALLEN-BRADLEY ControlLogix

|                   |           |
|-------------------|-----------|
| Suitable I/O card | 1756-IB32 |
|                   | 1756-OB32 |

### Supported controller ALLEN-BRADLEY PLC 5

|                   |          |
|-------------------|----------|
| Suitable I/O card | 1771 IBN |
|                   | 1771 OBN |

### Supported controller HONEYWELL Experion PKS C200

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

### Supported controller MITSUBISHI MELSEC Q

|                   |       |
|-------------------|-------|
| Suitable I/O card | QX81  |
|                   | QY81P |

### Supported controller SCHNEIDER ELECTRIC Modicon TSX QUANTUM

|                   |         |
|-------------------|---------|
| Suitable I/O card | DDI 353 |
|                   | DDI 853 |
|                   | DDO 353 |

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Supported controller SIEMENS S7-300 / ET 200 M

|                   |                    |
|-------------------|--------------------|
| Suitable I/O card | CPU 313C-2DP       |
|                   | CPU 314C-2DP       |
|                   | CPU 314C-2PtP      |
|                   | 6ES7321-1BL00-0AA0 |
|                   | 6ES7322-1BL00-0AA0 |
|                   | 6ES7323-1BL00-0AA0 |
|                   | CPU 313C           |
|                   | CPU 313C-2PtP      |

## 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              | 50                |
| Insertion/withdrawal cycles      | > 50              |
| Pitch                            | 2.54 mm           |

Connection 2 (field level)

|   |   |
|---|---|
| Connection method   | Screw connection                                      |
| Stripping length  | 6 mm  |
| Screw thread  | M3  |
| Number of positions   | 40  |
| Conductor cross-section rigid   | 0.14 mm² ... 1.5 mm²                                  |
| Conductor cross-section rigid (2 conductors with same cross section)    | 0.14 mm² ... 0.75 mm²                                 |
| Conductor cross-section flexible  | 0.14 mm² ... 1.5 mm²                                  |
|   | 0.25 mm² ... 1 mm² (Ferrule without plastic sleeve)   |
|   | 0.25 mm² ... 1.5 mm² (Ferrule with plastic sleeve)    |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.14 mm² ... 0.75 mm²                                 |
|   | 0.25 mm² ... 0.5 mm² (Ferrule without plastic sleeve) |
|   | 0.5 mm² ... 1 mm² (TWIN ferrule with plastic sleeve)  |
| Conductor cross-section AWG   | 26 ... 16   |
| Tightening torque   | 0.5 Nm ... 0.6 Nm                                     |
| Pitch   | 5.08 mm   |

## Signaling

|                           |              |
|---------------------------|--------------|
| Status display            | LED (yellow) |
| Status display present    | yes          |
| Operating voltage display | Green LED    |

## Dimensions

Item dimensions

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|        |          |
|--------|----------|
| Width  | 124.8 mm |
| Height | 45 mm    |
| Depth  | 50.5 mm  |

## Material specifications

|                             |     |
|-----------------------------|-----|
| Housing insulation material | PVC |
|-----------------------------|-----|

## 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         |

## Approvals

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

## Standards and regulations

### Air clearances and creepage distances

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

## Mounting

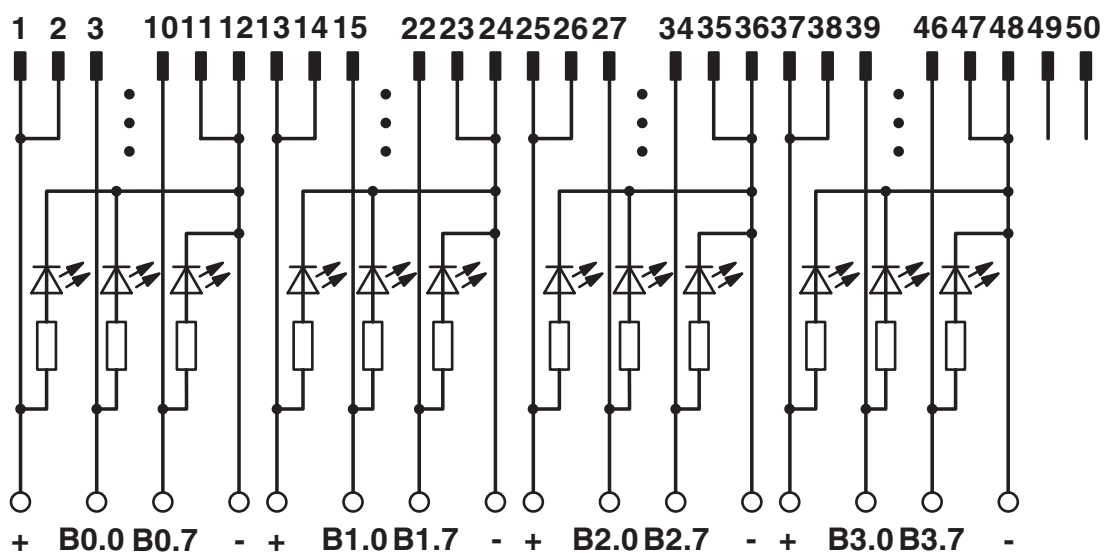
|                   |                   |
|-------------------|-------------------|
| Mounting type     | DIN rail mounting |
| Mounting position | any               |

## 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

Circuit diagram



UM 45-FLK50/LA/PLC connection scheme

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2962502>



**cUL Recognized**  
Approval ID: E238705



**UL Recognized**  
Approval ID: E238705

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 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(c)-I |

### 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) |
| SCIP                                | d07ad526-ed66-4371-8370-c7f70d3b226f        |

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