

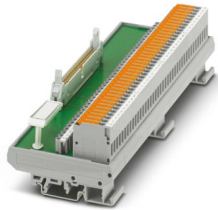
# FLKM 50/KDS3-MT/PPA/PLC - Passive module



2290614

<https://www.phoenixcontact.com/us/products/2290614>

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VARIOFACE interface module, for 32 channels with knife disconnect terminal blocks and test sockets to the peripherals and the system

## Your advantages

- Byte-by-byte labeling
- Can be used for digital I/O modules

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2290614       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK2181        |
| GTIN                                 | 4017918058142 |
| Weight per piece (including packing) | 472 g         |
| Weight per piece (excluding packing) | 384.82 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 (DC)            | ≤ 60 V DC |
| Current (per branch)              | ≤ 1 A     |
| Current (Voltage supply per byte) | ≤ 2 A     |

### Air clearances and creepage distances

|                          |                    |
|--------------------------|--------------------|
| Rated insulation voltage | 63 V               |
| Rated surge voltage      | 0.6 kV (1.2/50 μs) |

### Supported controller: SIEMENS S7-1500

|                   |                    |
|-------------------|--------------------|
| Suitable I/O card | 6ES7521-1BL00-0AB0 |
|                   | 6ES7522-1BL00-0AB0 |
|                   | 6ES7522-1BL01-0AB0 |

### Supported controller: SIEMENS S7-400

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

### 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 L

|                   |          |
|-------------------|----------|
| Suitable I/O card | LX41C4   |
|                   | LX42C4   |
|                   | LY41NT1P |
|                   | LY42NT1P |
|                   | LY41PT1P |

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|  |          |
|--|----------|
|  | LY42PT1P |
|--|----------|

## Supported controller: MITSUBISHI MELSEC Q

|                   |         |
|-------------------|---------|
| Suitable I/O card | QX81    |
|                   | QY81P   |
|                   | QX41    |
|                   | QX41-S1 |
|                   | QX42    |
|                   | QX42-S1 |
|                   | QX71    |
|                   | QX72    |
|                   | QY41P   |
|                   | QY42P   |
|                   | QY71    |
|                   | QH42P   |
|                   | QX82    |
|                   | QX82-S1 |
|                   | QY82P   |

## Supported controller: SCHNEIDER ELECTRIC Modicon TSX QUANTUM

|                   |         |
|-------------------|---------|
| Suitable I/O card | DDI 353 |
|                   | DDI 853 |
|                   | DAI 453 |
|                   | DDO 353 |

## 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      |

## Supported controller: GE-FANUC RX3i

|                   |             |
|-------------------|-------------|
| Suitable I/O card | IC694MDL754 |
|                   | IC694MDL660 |

## Supported controller: SIEMENS ET 200SP HA

|                         |   |
|-------------------------|---|
| Suitable terminal block | 6DL1193-6TP00-0BH1                        |
|                         | 6DL1193-6TP00-0DH1                        |
|                         | 6DL1193-6TP00-0BM1                        |
|                         | 6DL1193-6TP00-0DM1                        |
| Suitable I/O module     | 6DL1131-6BL00-0PH1 (Terminal Block H1/M1) |
|                         | 6DL1132-6BL00-0PH1 (Terminal Block H1/M1) |

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## 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 with disconnect knife   |
| Stripping length  | 8 mm   |
| Screw thread  | M3   |
| Number of positions   | 40   |
| 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  |

### Connection 3 (field level)

|                     |             |
|---------------------|-------------|
| Connection method   | Test socket |
| Number of positions | 40          |

## Signaling

|                        |    |
|------------------------|----|
| Status display present | no |
|------------------------|----|

## Dimensions

### Item dimensions

|        |           |
|--------|-----------|
| Width  | 213.45 mm |
| Height | 77 mm     |
| Depth  | 52.3 mm   |

## Material specifications

|                             |                     |
|-----------------------------|---------------------|
| Color                       | gray (RAL 7042)     |
| Housing insulation material | Polyamide 6.6 green |

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

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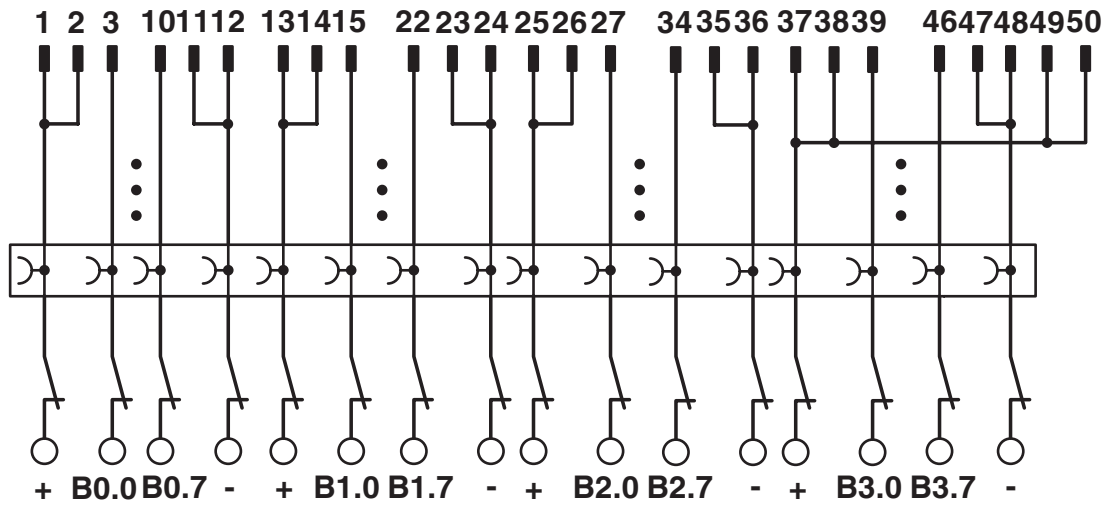


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## Drawings

Circuit diagram



FLKM 50/KDS3-MT/PPA/PLC connection scheme

# FLKM 50/KDS3-MT/PPA/PLC - Passive module





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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2290614>

|  <b>UL Listed</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>cUL Listed</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                   | -                 | -                           |

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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.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 6d82c4a4-ee87-4c65-98ed-a2f16c2270f7 |

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