

# UM 45-FLK50/32IM/PLC - Passive module



2962890

<https://www.phoenixcontact.com/us/products/2962890>

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VARIOFACE COMPACT LINE, sensor module for the connection of 32 p-n-p sensors, for assembly on DIN rail NS 35/7.5, screw connection

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2962890                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK21A1                         |
| GTIN                                 | 4017918087494                  |
| Weight per piece (including packing) | 255.4 g                        |
| Weight per piece (excluding packing) | 221.27 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 |
| Oversupply category | II                    |
| Pollution degree    | 2                     |

### Electrical properties

|                                   |           |
|-----------------------------------|-----------|
| Operating voltage (AC)            | ≤ 30 V AC |
| 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 S7-400

|                   |                    |
|-------------------|--------------------|
| 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 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 353 |
|                   | 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 |

## Connection data

### Connection 1 (control level)

|                                  |                   |
|----------------------------------|-------------------|
| Connection in acc. with standard | IEC 60603-13      |
| Connection method                | IDC/FLK pin strip |
| Number of connections            | 1                 |

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|                             |         |
|-----------------------------|---------|
| Number of positions         | 50      |
| Insertion/withdrawal cycles | > 50    |
| Pitch                       | 2.54 mm |

## Connection 2 (field level)

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection  |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Number of positions              | 102   |
| Conductor cross-section rigid    | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>  |
| Conductor cross-section flexible | 0.25 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Ferrule without plastic sleeve)<br>0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (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 present | no |
|------------------------|----|

## Dimensions

### Item dimensions

|        |          |
|--------|----------|
| Width  | 196.8 mm |
| Height | 45 mm    |
| Depth  | 52.17 mm |

## Material specifications

|                             |                  |
|-----------------------------|------------------|
| Color                       | green (RAL 6021) |
| Housing insulation material | PVC              |

## Environmental and real-life conditions

### Ambient conditions

|  |                  |
|--|------------------|
| Degree of protection (Module)                | IP00             |
| Degree of protection (Installation location) | ≥ IP44           |
| 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 |  |
|---------------------------------------|--|

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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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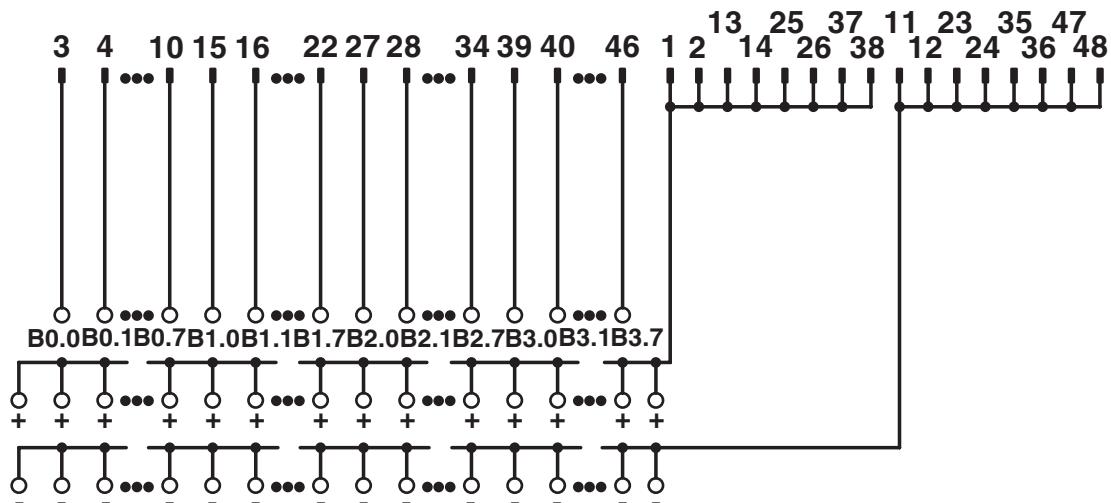
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## Drawings

Circuit diagram



UM 45-FLK50/32IM/PLC connection scheme

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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) |

### 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                                | b1b2c083-ee1a-4926-b920-b7d6717ba959 |

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