

# FLKMS 50/32IM/PLC - Passive module

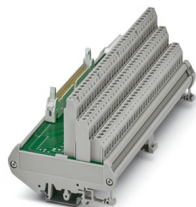


2284523

<https://www.phoenixcontact.com/gb/products/2284523>

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VARIOFACE sensor module, for connecting 32 p-n-p sensors



## Your advantages

- With LED as an option
- For 32 channels
- Positive and negative connection per signal
- Byte-by-byte labeling

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2284523             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | DK2181              |
| Product key                          | DK2181              |
| Catalog page                         | Page 522 (C-5-2019) |
| GTIN                                 | 4017918055691       |
| Weight per piece (including packing) | 453 g               |
| Weight per piece (excluding packing) | 395.42 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 (AC)   | ≤ 30 V AC |
| Operating voltage (DC)   | ≤ 60 V DC |
| Current (per branch)     | ≤ 1 A     |
| Current (Voltage supply) | ≤ 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 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

|  |        |
|--|--------|
|  | LX41C4 |
|--|--------|

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

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

## 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                                                        | 7 mm                                                   |
| Screw thread                                                            | M3                                                     |
| Number of positions                                                     | 100                                                    |
| Conductor cross section rigid                                           | 0.2 mm² ... 4 mm²                                      |
| Conductor cross-section rigid (2 conductors with same cross section)    | 0.2 mm² ... 1.5 mm²                                    |
| Conductor cross section flexible                                        | 0.2 mm² ... 2.5 mm²                                    |
|                                                                         | 0.25 mm² ... 1.5 mm² (Ferrule without plastic sleeve)  |
|                                                                         | 0.25 mm² ... 2.5 mm² (Ferrule with plastic sleeve)     |
| Conductor cross section flexible (2 conductors with same cross section) | 0.2 mm² ... 1.5 mm²                                    |
|                                                                         | 0.2 mm² ... 0.75 mm² (Ferrule without plastic sleeve)  |
|                                                                         | 0.5 mm² ... 0.5 mm² (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 present | no |
|------------------------|----|

## Dimensions

### Item dimensions

|        |          |
|--------|----------|
| Width  | 179.5 mm |
| Height | 89.6 mm  |
| Depth  | 79.4 mm  |

## Material specifications

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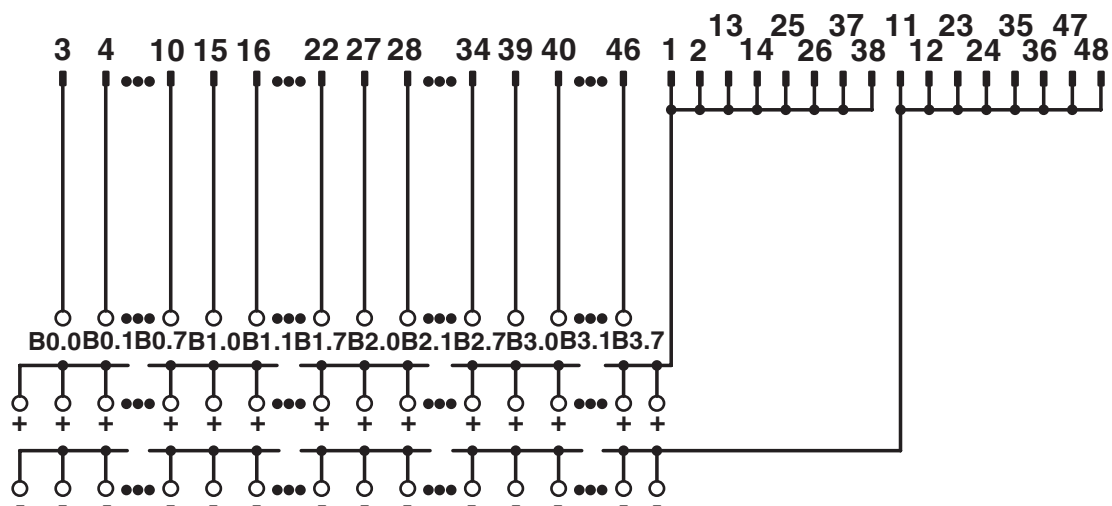


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## Drawings

Circuit diagram



Connection scheme FLKMS 50/32IM/PLC

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2284523>

|  <b>cUL Recognized</b><br>Approval ID: E238705 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                 | 125 V                 | 2 A                   | -                 | -                           |

|  <b>UL Recognized</b><br>Approval ID: E238705 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                | 125 V                 | 2 A                   | -                 | -                           |

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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, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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