

# DFLK 40 - Interface module

2280271

<https://www.phoenixcontact.com/us/products/2280271>



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The VARIOFACE feed-through module implements a 1:1 connection between screw connection terminal blocks and an IDC/FLK pin strip (2.54 mm, number of positions: 40).

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2280271                        |
| Packing unit                         | 5 pc                           |
| Minimum order quantity               | 5 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C422                           |
| Product key                          | CK21C1                         |
| Catalog page                         | Page 582 (C-7-2015)            |
| GTIN                                 | 4017918054380                  |
| Weight per piece (including packing) | 132.41 g                       |
| Weight per piece (excluding packing) | 1.36 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 | 40                    |
| No. of channels     | 2                     |
|                     | 4                     |
|                     | 6                     |
|                     | 8                     |
|                     | 16                    |
|                     | 32                    |
| Operating mode      | 100% operating factor |

### Insulation characteristics

|            |                       |
|------------|-----------------------|
| Insulation | Functional insulation |
|------------|-----------------------|

### 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 (Total current) | ≤ 40 A (50 °C) |

### Air clearances and creepage distances

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

### Supported controller ALLEN-BRADLEY SLC 500

|                   |            |
|-------------------|------------|
| Suitable I/O card | 1746 OB 32 |
|                   | 1746 OV 32 |
|                   | 1746 IB 32 |
|                   | 1746 IV 32 |

### 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              | 40                |
| Insertion/withdrawal cycles      | > 50              |

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|       |         |
|-------|---------|
| Pitch | 2.54 mm |
|-------|---------|

## Connection 2 (field level)

|                                                                         |                                                                                |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Connection method                                                       | Screw connection                                                               |
| Stripping length                                                        | 8 mm                                                                           |
| Screw thread                                                            | M3                                                                             |
| Number of positions                                                     | 16                                                                             |
| 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> ... 1.5 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 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> ... 1.5 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 mm                                                                           |

## Signaling

|                        |    |
|------------------------|----|
| Status display present | No |
|------------------------|----|

## Dimensions

### Item dimensions

|        |          |
|--------|----------|
| Width  | 39.88 mm |
| Height | 128.4 mm |
| Depth  | 47.24 mm |

## Material specifications

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

## Environmental and real-life conditions

### Ambient conditions

|                                              |                  |
|----------------------------------------------|------------------|
| Degree of protection (Module)                | IP20             |
| 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 |
|-------------|----------------|

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## Standards and regulations

Air clearances and creepage distances

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

## Mounting

|                   |               |
|-------------------|---------------|
| Mounting type     | Rear 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. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# DFLK 40 - Interface module

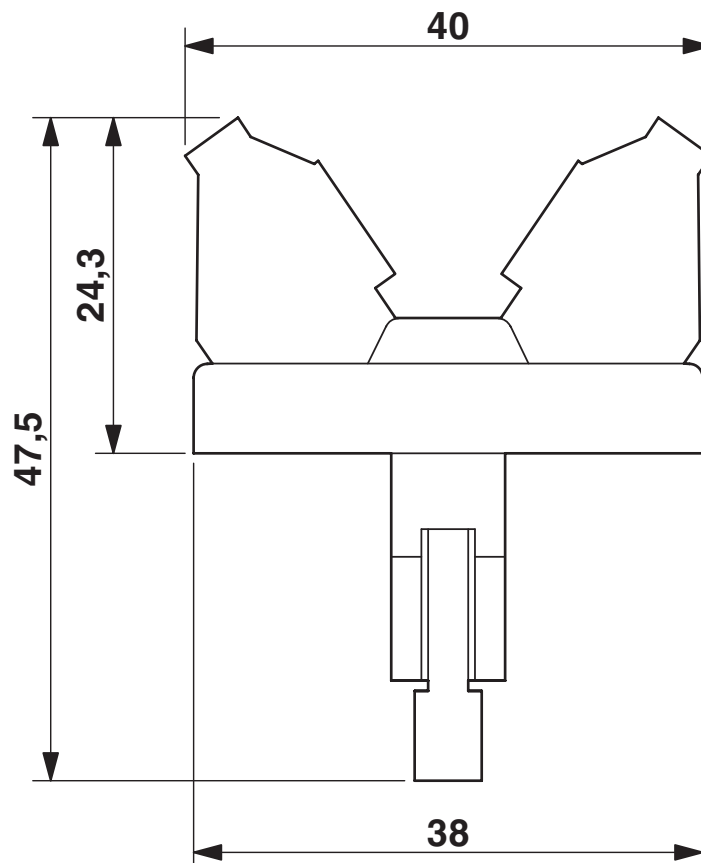
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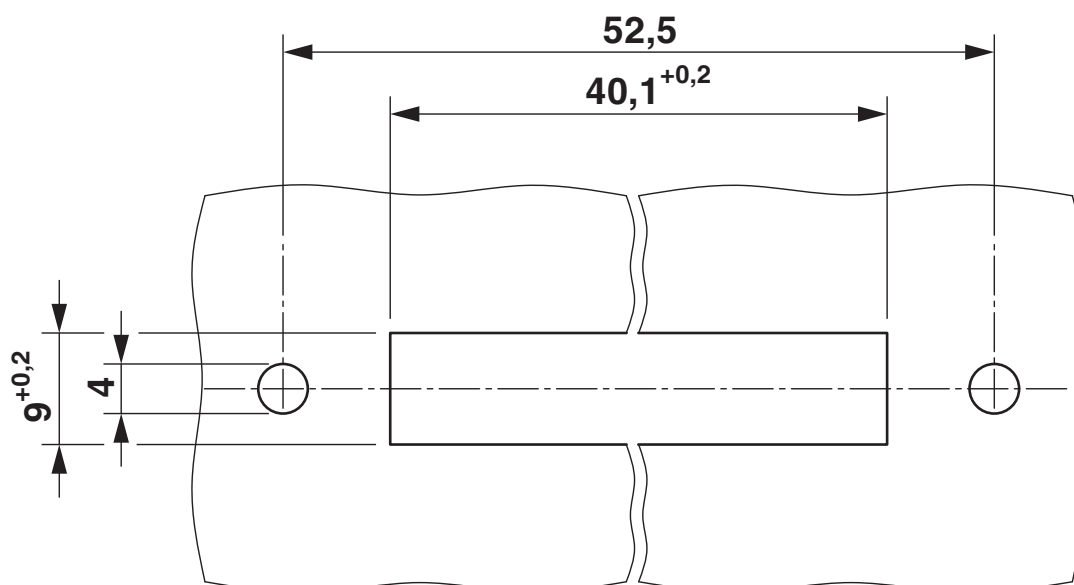


## Drawings

Dimensional drawing



Dimensional drawing



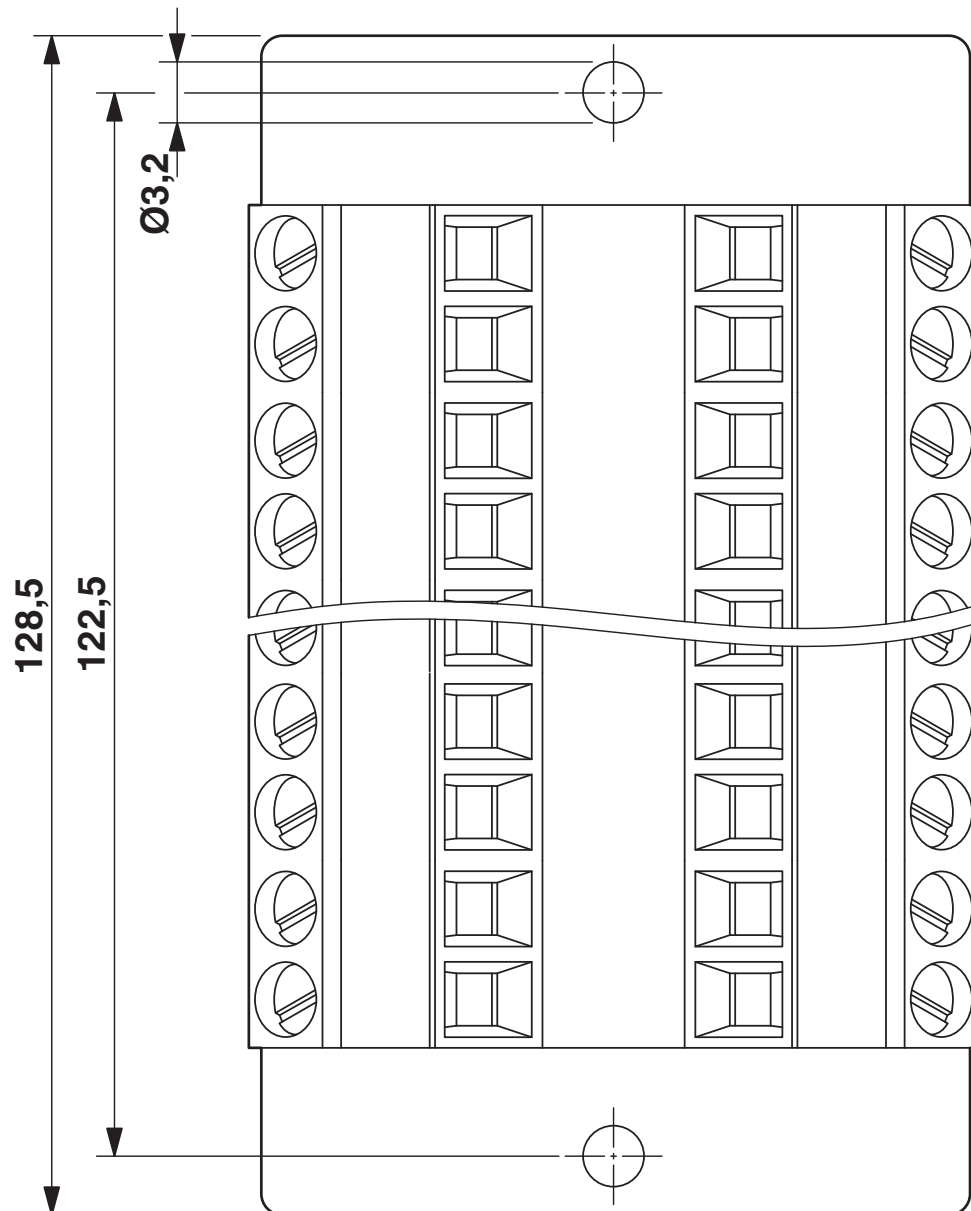
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Dimensional drawing



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141152 |
| ECLASS-12.0 | 27141152 |
| 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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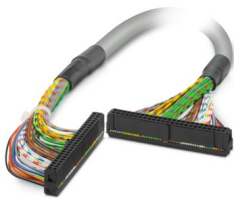
## Accessories

### FLK EZ-DR.../.../... - Cable

2295059

<https://www.phoenixcontact.com/us/products/2295059>

Round cable, with preassembly, not shielded, variable cable length



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### FLK 40/EZ-DR/ 50/KONFEK - Cable

2288985

<https://www.phoenixcontact.com/us/products/2288985>

Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 0.5 m



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## FLK 40/EZ-DR/ 100/KONFEK - Cable

2288998

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Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 1 m

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## FLK 40/EZ-DR/ 150/KONFEK - Cable

2289007

<https://www.phoenixcontact.com/us/products/2289007>



Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 1.5 m

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## FLK 40/EZ-DR/ 200/KONFEK - Cable

2289010

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Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 2 m

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## FLK 40/EZ-DR/ 250/KONFEK - Cable

2289023

<https://www.phoenixcontact.com/us/products/2289023>



Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 2.5 m

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## FLK 40/EZ-DR/ 300/KONFEK - Cable

2289036

<https://www.phoenixcontact.com/us/products/2289036>



Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 3 m

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## FLK 40/EZ-DR/ 350/KONFEK - Cable

2289049

<https://www.phoenixcontact.com/us/products/2289049>



Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 3.5 m

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## FLK 40/EZ-DR/ 400/KONFEK - Cable

2289052

<https://www.phoenixcontact.com/us/products/2289052>



Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 4 m

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## FLK 40/EZ-DR/ 600/KONFEK - Cable

2299589

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Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 6 m

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## FLK 40/EZ-DR/ 800/KONFEK - Cable

2299592

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Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 8 m

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## FLK 40/EZ-DR/1000/KONFEK - Cable

2299602

<https://www.phoenixcontact.com/us/products/2299602>



Round cable set; connection 1: IDC/FLK socket strip (1x 40-position); connection 2: IDC/FLK socket strip (1x 40-position); cable length: 10 m

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