

# DFLK-D37 SUB/B - Termination board



2280349  
<https://www.phoenixcontact.com/us/products/2280349>

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The VARIOFACE feed-through module implements a 1:1 connection between screw connection terminal blocks and a D-SUB miniature female strip (number of positions: 37). A separate ground pick-off is available.

## Your advantages

- 9-pos. ... 50-pos.
- 9-□...□37-pos.: separate ground pick-off
- 50-pos.: no ground pick-off
- In accordance with IEC□60807-2
- 1:1 connection
- Screw connection
- D-SUB 4-40 UNC thread

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2280349       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C422          |
| Product key                          | DK21C2        |
| GTIN                                 | 4017918054458 |
| Weight per piece (including packing) | 131.24 g      |
| Weight per piece (excluding packing) | 131.24 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 | 37               |

#### 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)    | ≤ 2.5 A        |
| Current (Total current) | ≤ 50 A (50 °C) |

#### Air clearances and creepage distances

|                          |                    |
|--------------------------|--------------------|
| Rated insulation voltage | 125 V              |
| Rated surge voltage      | 1.2 kV (1.2/50 µs) |

### Connection data

#### Connection 1 (control level)

|                                  |                    |
|----------------------------------|--------------------|
| Connection in acc. with standard | IEC 60807-2        |
| Connection method                | D-SUB socket strip |
| Screw thread                     | UNC 4-40           |
| Number of connections            | 1                  |
| Number of positions              | 37                 |
| Insertion/withdrawal cycles      | > 500              |
| Pitch                            | 2.77 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 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 ... 2.5 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                                    |
|                                                                         | 0.25 mm² ... 0.75 mm² (Ferrule without plastic sleeve) |

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|                             |                                                        |
|-----------------------------|--------------------------------------------------------|
|                             | 0.5 mm² ... 1.5 mm² (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  | 33.03 mm |

## Material specifications

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

## 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 |
|-------------|----------------|

## 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-D37 SUB/B - Termination board

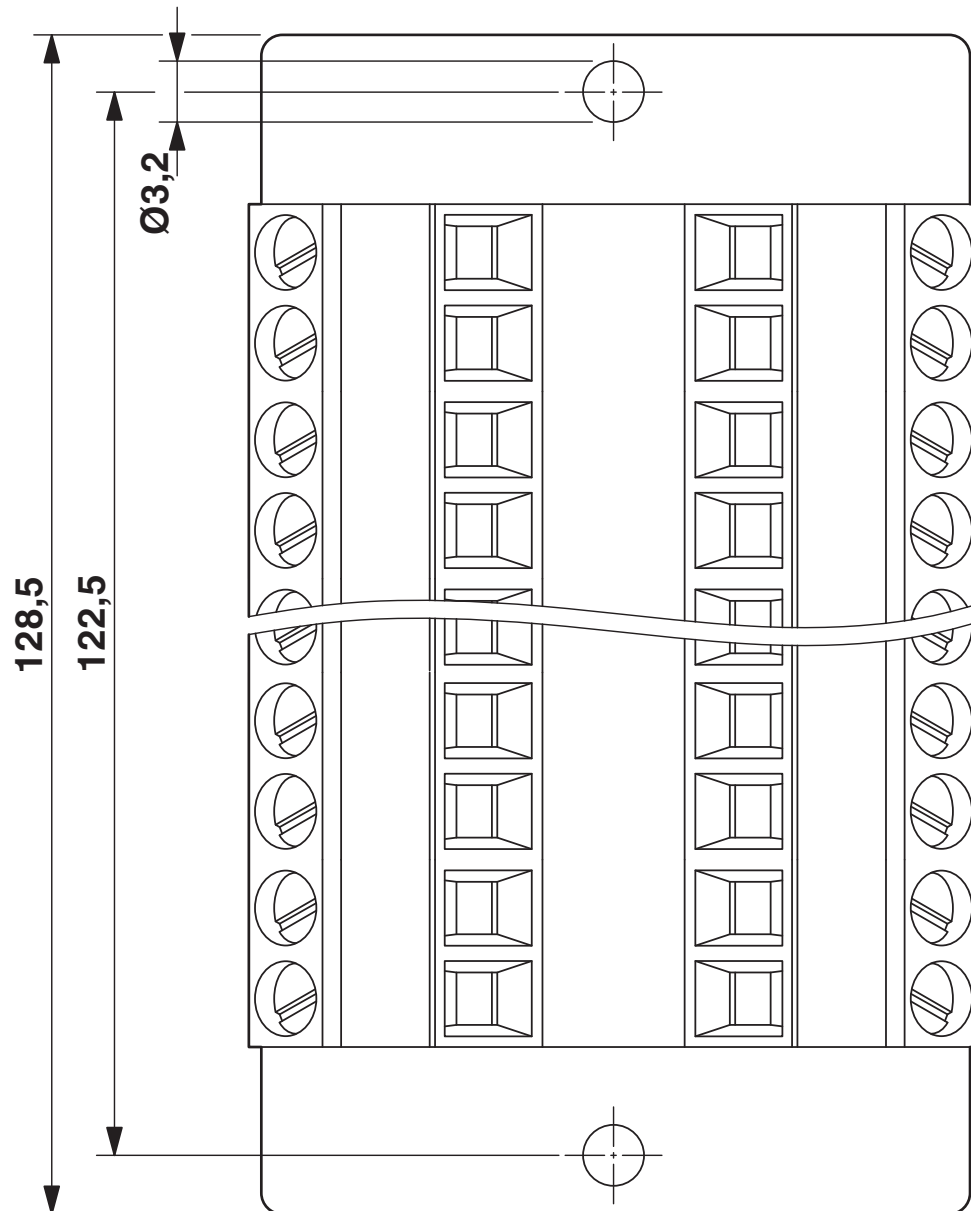
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## Drawings

Dimensional drawing



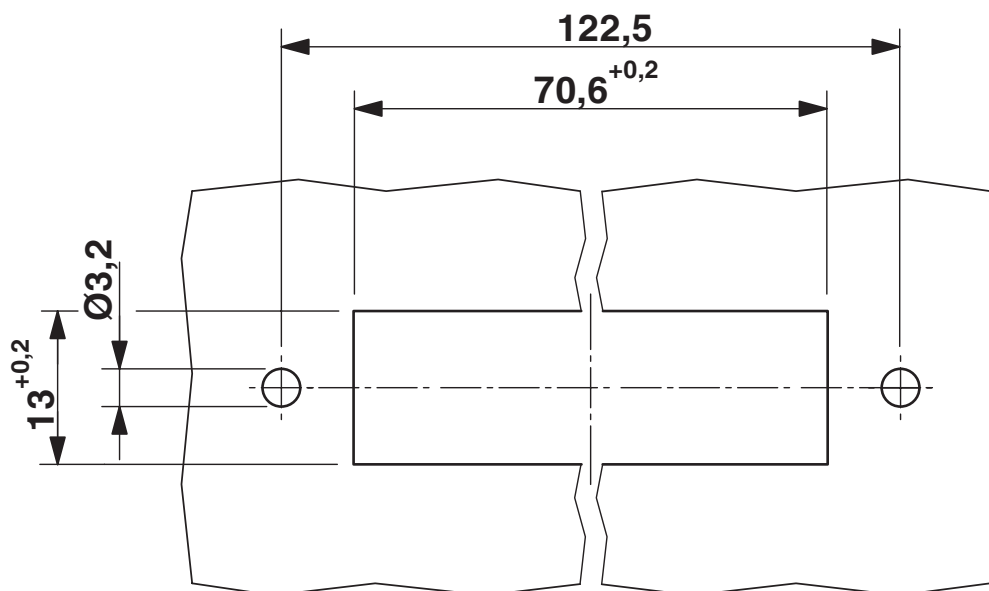
# DFLK-D37 SUB/B - Termination board

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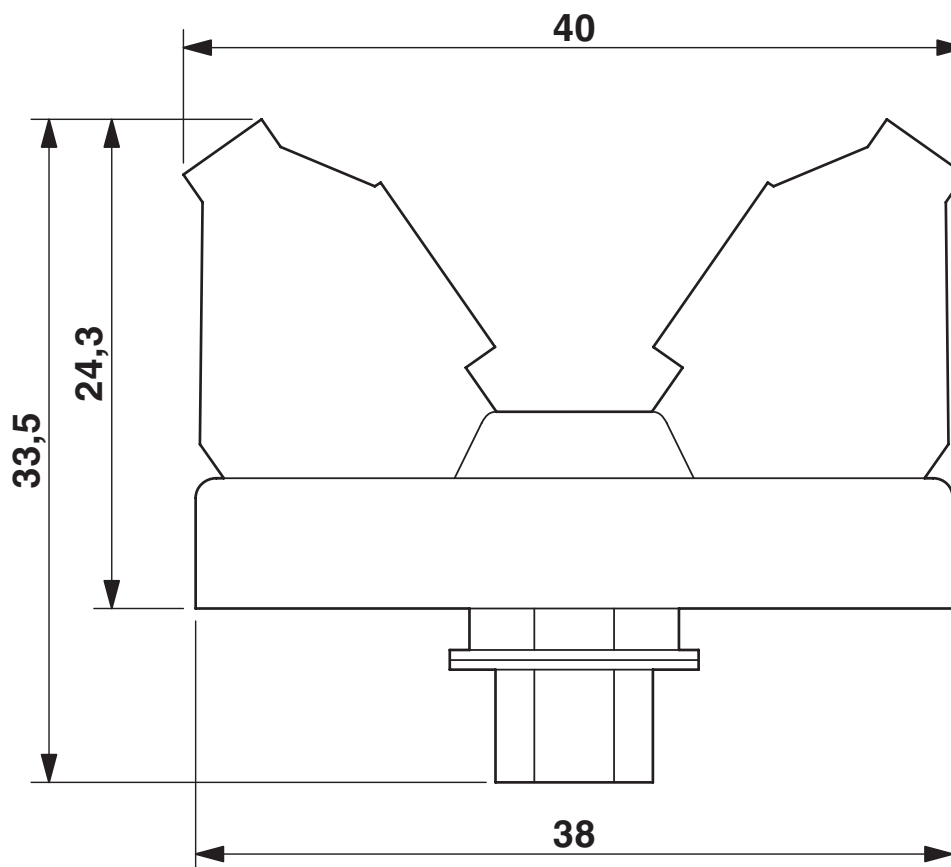
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Dimensional drawing



Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2280349>

|                                                                                                                                      |                                |                                |                   |                               |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>cUL Recognized</b><br>Approval ID: FILE E 60425 |                                |                                |                   |                               |
|                                                                                                                                      | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                                |                                |                                |                   |                               |
|                                                                                                                                      | 125 V                          | 2.5 A                          | 30 - 12           | -                             |

|                                                                                                                                     |                                |                                |                   |                               |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>UL Recognized</b><br>Approval ID: FILE E 60425 |                                |                                |                   |                               |
|                                                                                                                                     | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                               |                                |                                |                   |                               |
|                                                                                                                                     | 125 V                          | 2.5 A                          | 30 - 12           | -                             |

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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, 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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