

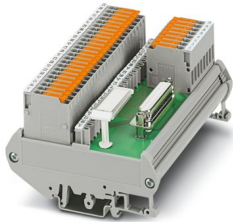
# FLKM-D25 SUB/B/KDS3-MT/TU810/P - Interface module



2304539

<https://www.phoenixcontact.com/us/products/2304539>

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VARIOFACE module for ABB S800 I/O, with knife disconnect terminal blocks and specific marking (+1, B1, C1, +2, B2, C2, ... +8, B8, C8)

## Your advantages

- Eight positive terminal blocks with knife disconnection (TU810/P)
- Eight negative terminal blocks with knife disconnection (TU810)
- One positive and negative terminal block with knife disconnection per channel (TU830)

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2304539             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | C421                |
| Product key                          | CK21A1              |
| Catalog page                         | Page 468 (C-5-2019) |
| GTIN                                 | 4017918949129       |
| Weight per piece (including packing) | 339 g               |
| Weight per piece (excluding packing) | 269.84 g            |
| Customs tariff number                | 85369010            |
| Country of origin                    | DE                  |

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## Technical data

### Product properties

|                     |                  |
|---------------------|------------------|
| Product type        | Interface module |
| Number of positions | 25               |
| No. of channels     | 2                |
|                     | 4                |
|                     | 8                |
|                     | 16               |

### 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)                       | ≤ 2 A     |
| Current (L1-, L2-)                         | ≤ 4 A     |
| Current (L1+, L2+)                         | ≤ 8 A     |
| Current (Pin 1, 14, 2, 15, 11, 24, 12, 25) | ≤ 4 A     |

### Air clearances and creepage distances

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

### Supported controller ABB S800 I/O

|                   |       |
|-------------------|-------|
| Suitable I/O card | DI810 |
|                   | DI811 |
|                   | DI818 |
|                   | DI830 |
|                   | DI831 |
|                   | DI840 |
|                   | DI885 |
|                   | DO814 |
|                   | DO818 |
|                   | AI810 |
|                   | AI815 |
|                   | AI845 |

### Connection data

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## 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              | 25                 |
| Insertion/withdrawal cycles      | > 500              |
| Pitch                            | 2.77 mm            |

## Connection 2 (field level)

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection with disconnect knife    |
| Stripping length                 | 8 mm                                      |
| Screw thread                     | M3  |
| Number of positions              | 32  |
| Conductor cross section rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 ... 12                                 |

## Connection 3 (field level)

|                     |             |
|---------------------|-------------|
| Connection method   | Test socket |
| Number of positions | 24          |

## Signaling

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

## Dimensions

### Item dimensions

|        |          |
|--------|----------|
| Width  | 126 mm   |
| Height | 89.6 mm  |
| Depth  | 60.01 mm |

## Material specifications

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

## 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         |

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## 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

|         |  |
|---------|--|
| General | 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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## 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

|            |  |
|------------|--|
| REACH SVHC | Lead 7439-92-1   |
| China RoHS | Environmentally Friendly Use Period = 50 years   |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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