

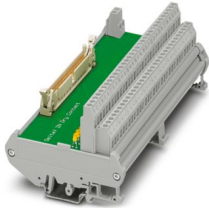
FLKM 50/32M/IN/LA/DV - Passive module



2304856

<https://www.phoenixcontact.com/us/products/2304856>

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32-channel module with LED and 2-conductor connection; common negative potential (for Delta V controller input cards)

Your advantages

- These system-specific interface modules for DeltaV modules are used in combination with FLK 50/2FLK20/EZ-DR/.../DV system cables
- Can be used for 32-channel input modules
- LED status indicator per channel
- 2-wire connection with separate negative terminal block per channel (dry contact)

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2304856 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | DK218K |
| GTIN | 4017918981747 |
| Weight per piece (including packing) | 373 g |
| Weight per piece (excluding packing) | 285.32 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |

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 range | 19.2 V DC ... 26.4 V DC |
| Current (per branch) | ≤ 1 A |
| Current (Terminal block/terminal block) | ≤ 5 A |

Air clearances and creepage distances

| | |
|--------------------------|--------------------|
| Rated insulation voltage | 50 V |
| Rated surge voltage | 0.5 kV (1.2/50 μs) |

Supported controller: EMERSON DeltaV

| | |
|-------------------|--------------|
| Suitable I/O card | VE4001S2T2B5 |
|-------------------|--------------|

Output data

| | |
|-------------------------|---------------|
| Nominal supply voltage | 24 V DC ±10 % |
| Continuous load current | 1 A |

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 | 64 |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section rigid (2 conductors with same cross | 0.2 mm ² ... 1.5 mm ² |

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| | |
|---|--|
| section) | |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| | 0.25 mm ² ... 1.5 mm ² (Ferrule without plastic sleeve) |
| | 0.25 mm ² ... 2.5 mm ² (Ferrule with plastic sleeve) |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.2 mm ² ... 1.5 mm ² |
| | 0.25 mm ² ... 0.75 mm ² (Ferrule without plastic sleeve) |
| | 0.5 mm ² ... 0.5 mm ² (TWIN ferrule with plastic sleeve) |
| Conductor cross-section AWG | 24 ... 12 |
| Tightening torque | 0.5 Nm ... 0.6 Nm |
| Pitch | 5.08 mm |

Connection 3 (supply)

| | |
|---|--|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Number of connections | 1 |
| Number of positions | 2 |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section rigid (2 conductors with same cross section) | 0.2 mm ² ... 1.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| | 0.25 mm ² ... 2.5 mm ² (Ferrule without plastic sleeve) |
| | 0.25 mm ² ... 2.5 mm ² (Ferrule with plastic sleeve) |
| Conductor cross-section flexible (2 conductors with same cross section) | 0.2 mm ² ... 1.5 mm ² |
| | 0.25 mm ² ... 0.75 mm ² (Ferrule without plastic sleeve) |
| | 0.5 mm ² ... 1.5 mm ² (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 | LED (yellow) |
| Status display present | yes |

Dimensions

Item dimensions

| | |
|--------|----------|
| Width | 168.3 mm |
| Height | 89.6 mm |
| Depth | 65.8 mm |

Material specifications

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

Environmental and real-life conditions

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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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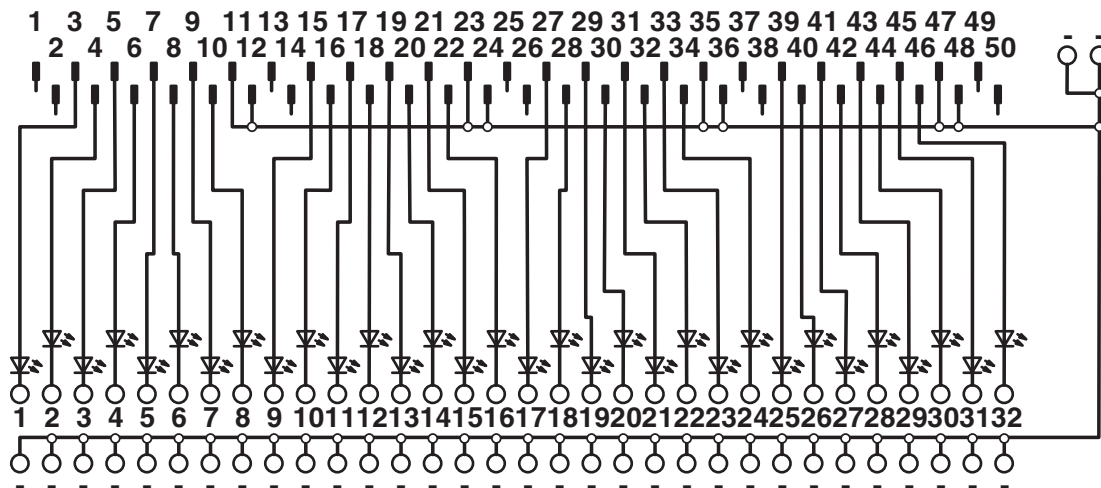


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Drawings

Circuit diagram



FLKM 50/32M/IN/LA/DV connection scheme

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 27141152 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | 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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
| SCIP | 85316084-bfda-4376-9f52-b178778746f7 |

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