# ZFKDSA 1,5C-5,0- 4-EXPROFINET2 - PCB terminal block

1033604

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PCB terminal block, nominal current: 16 A, nominal cross section: 1.5 mm$^2$, number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: ZFKDS(A) 1,5C-EX PROFINET, pitch: 5 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard. PCB terminal block satisfies the requirements of the “Guideline for PROFINET” in the 2017-05 edition, suitable for CAT5

## Your advantages

- Satisfies CAT5 requirements in accordance with EN 50173 and ISO/IEC 11801

## Commercial data

| | |
|---|---|
| Item number | 1033604 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Note | Made to order (non-returnable) |
| Sales key | AA12 |
| Product key | AALMBE |
| GTIN | 4055626538525 |
| Weight per piece (including packing) | 4.16 g |
| Weight per piece (excluding packing) | 3.63 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

## Technical data

### Product properties

| | |
|---|---|
| Product type | PCB terminal block |
| Product family | ZFKDS(A) 1,5C-EX PROFINET |
| Product line | COMBICON Terminals S |
| Number of positions | 4 |
| Pitch | 5 mm |
| Number of connections | 4 |
| Number of rows | 1 |
| Number of potentials | 4 |
| Pin layout | Linear pinning |
| Solder pins per potential | 2 |

Fitting of components

| | |
|---|---|
| Partial assembly | No |

### Electrical properties

Properties

| | |
|---|---|
| Nominal current $I_N$ | 16 A |
| Nominal voltage $U_N$ | 176 V |
| Rated current / conductor cross-section | 16 A/1.5 mm² |

Data transmission

| | |
|---|---|
| Signal type | PROFINET |
| Frequency range | to 100 MHz |
| Transmission medium | Copper |
| Transmission characteristics (category) | CAT5 |
| Data transmission rate | 100 Mbps |

### Ex data

Ex approval

| | |
|---|---|
| Identification | 0344 Ex II 2GD / Ex eb IIC Gb |
| EU-type examination certificate | DEKRA 22ATEX0001U |
| IECEx certificate | IECEx DEK 22.0001U |

### Connection data

Connection technology

| | |
|---|---|
| Nominal cross section | 1.5 mm² |

Conductor connection

| | |
|---|---|
| Connection method | Spring-cage connection |
| Conductor cross-section rigid | 0.2 mm² ... 2.5 mm² |

| | |
|---|---|
| Conductor cross-section flexible | 0.2 mm² ... 1.5 mm² |
| Stripping length | 7 mm |

## Mounting

| | |
|---|---|
| Mounting type | Wave soldering |
| Pin layout | Linear pinning |

## Material specifications

Material data - contact

| | |
|---|---|
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
| Contact material | Cu alloy |
| Surface characteristics | hot-dip tin-plated |
| Metal surface terminal point (top layer) | Tin (10 µm - 16 µm Sn) |
| Metal surface soldering area (top layer) | Tin (10 µm - 16 µm Sn) |

Material data - housing

| | |
|---|---|
| Color (Housing) | green (6021) |
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |
| Glow wire flammability index GWFI according to EN 60695-2-12 | 850 |
| Glow wire ignition temperature GWIT according to EN 60695-2-13 | 775 |
| Temperature for the ball pressure test according to EN 60695-10-2 | 125 °C |

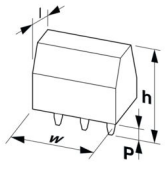
Material data – actuating element

| | |
|---|---|
| Color (Actuating element) | green (6021) |

## Notes

| | |
|---|---|
| Note on application | The item is qualified for CAT5 Ethernet applications. For this reason, it is suited for use in IoT devices. |

## Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Pitch | 5 mm |
| Width [w] | 21.9 mm |
| Height [h] | 16.23 mm |
| Length [l] | 14.02 mm |

| | |
|---|---|
| Installed height | 12.73 mm |
| Solder pin length [P] | 3.5 mm |
| Pin dimensions | 0.7 x 0.7 mm |

PCB design

| | |
|---|---|
| Pin spacing | 5.08 mm |
| Hole diameter | 1.1 mm |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |
| Ambient temperature (operation) | -50 °C ... 110 °C |

## Packaging specifications

| | |
|---|---|
| Type of packaging | packed in cardboard |

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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1033604

**IECEx**
Approval ID: IECEx DEK 22.0001U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 176 V | 16 A | - | 0.2 - 2.5 |

**ATEX**
Approval ID: DEKRA 22ATEX0001U

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 176 V | 16 A | - | 0.2 - 2.5 |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27460101 |
| ECLASS-15.0 | 27460101 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002643 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## 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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