

ZFKDSA 2,5-5,08- 2 EX 1RZ - PCB terminal block



1848215

<https://www.phoenixcontact.com/us/products/1848215>

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Printed circuit board terminal, nominal current: 22 A, nominal cross section: 2.5 mm², number of potentials: 2, number of rows: 1, number of positions per row: 2, product range: ZFKDS(A) 2,5-EX, pitch: 5.08 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

Your advantages

- Defined contact force ensures that contact remains stable over the long term
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Angled connection enables multi-row arrangement on the PCB
- Satisfies the more stringent safety requirements of "Ex eb" protection according to IEC 60079-7 for potentially explosive areas
- The latching on the side enables various numbers of positions to be combined
- Two solder pins reduce the mechanical strain on the soldering spots

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1848215 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Note | Made to order (non-returnable) |
| Product key | AAMMAA |
| GTIN | 4046356965422 |
| Weight per piece (including packing) | 3.18 g |
| Weight per piece (excluding packing) | 2.88 g |
| Country of origin | PL |

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Technical data

Product properties

| | |
|---------------------------|--------------------------------|
| Product type | Printed circuit board terminal |
| Product family | ZFKDS(A) 2,5-EX |
| Product line | COMBICON Terminals M |
| Number of positions | 2 |
| Pitch | 5.08 mm |
| Number of connections | 2 |
| Number of rows | 1 |
| Number of potentials | 2 |
| Pin layout | Linear pinning |
| Solder pins per potential | 2 |

Electrical properties

Properties

| | |
|---|--------------------------|
| Nominal current I_N | 22 A |
| Nominal voltage U_N | 137 V |
| Rated current / conductor cross-section | 22 A/2.5 mm ² |

Ex data

Ex approval

| | |
|---------------------------------|---|
| Identification | 0344 [Ⓢ] 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 | 2.5 mm ² |
|-----------------------|---------------------|

Conductor connection

| | |
|----------------------------------|---|
| Connection method | Spring-cage connection |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| Stripping length | 7 mm |

Mounting

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

Material specifications

Material data - contact

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| | |
|--|--|
| Note | WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201 |
| Contact material | Cu alloy |
| Surface characteristics | 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) |

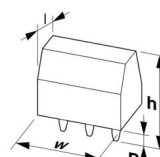
Material data - housing

| | |
|---|--------------|
| 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) |
|---------------------------|--------------|

Dimensions

| | |
|-----------------------|--|
| Dimensional drawing |  |
| Pitch | 5.08 mm |
| Width [w] | 11.16 mm |
| Height [h] | 17.7 mm |
| Length [l] | 16.85 mm |
| Installed height | 14.2 mm |
| Solder pin length [P] | 3.5 mm |
| Pin dimensions | 0.8 x 0.8 mm |

PCB design

| | |
|---------------|--------|
| Hole diameter | 1.3 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 |

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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/1848215>

|  IECEX Approval ID: IECEX DEK 22.0001U | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 137 V | 22 A | - | 0.2 - 4 |
| with pitch spacer | 275 V | 22 A | - | 0.2 - 4 |

|  ATEX Approval ID: DEKRA 22ATEX0001U | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 137 V | 22 A | - | 0.2 - 4 |
| with pitch spacer | 275 V | 22 A | - | 0.2 - 4 |

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Classifications

ECLASS

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

ETIM

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

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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 0.043 kg CO2e |
|---------|---------------|

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