

# ZFKDS 2,5-5,08-EX - PCB terminal block



1732137

<https://www.phoenixcontact.com/pc/products/1732137>

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PCB terminal block, nominal current: 22 A, nominal cross section: 2.5 mm<sup>2</sup>, number of potentials: 1, number of rows: 1, number of positions per row: 1, 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 e" 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                          | 1732137             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 1 pc                |
| Product key                          | AAMMAA              |
| Catalog page                         | Page 161 (C-1-2013) |
| GTIN                                 | 4046356280679       |
| Weight per piece (including packing) | 1.339 g             |
| Weight per piece (excluding packing) | 1.165 g             |
| Customs tariff number                | 85369010            |
| 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       | 1                              |
| Pitch                     | 5.08 mm                        |
| Number of connections     | 1                              |
| Number of rows            | 1                              |
| Number of potentials      | 1                              |
| Pin layout                | Linear pinning                 |
| Solder pins per potential | 2                              |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 02 |
|------------------|----|

### Electrical properties

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

### Ex data

#### Ex approval

|                                 |                                          |
|---------------------------------|------------------------------------------|
| Identification                  | 0344 <sup>Ex</sup> II 2GD / Ex eb IIC Gb |
| EU-type examination certificate | PTB 06ATEX1073 U                         |
| IECEx certificate               | IECEx PTB 06.0096.U                      |

### Connection data

#### Connection technology

|                       |                     |
|-----------------------|---------------------|
| Nominal cross section | 2.5 mm <sup>2</sup> |
|-----------------------|---------------------|

#### Conductor connection

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Spring-cage connection                      |
| 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> ... 2.5 mm <sup>2</sup> |
| Stripping length                 | 7 mm                                        |

### Mounting

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

### Material specifications

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## 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                  | Tin-plated                                                                       |
| Metal surface terminal point (top layer) | Tin (10 - 16 µm Sn)                                                              |
| Metal surface soldering area (top layer) | Tin (10 - 16 µm Sn)                                                              |

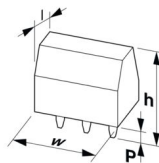
## Material data - housing

|                                                                   |              |
|-------------------------------------------------------------------|--------------|
| 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]             | 5.08 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 (operation)         | -50 °C ... 110 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C  |
| Relative humidity (storage/transport)   | 30 % ... 70 %     |

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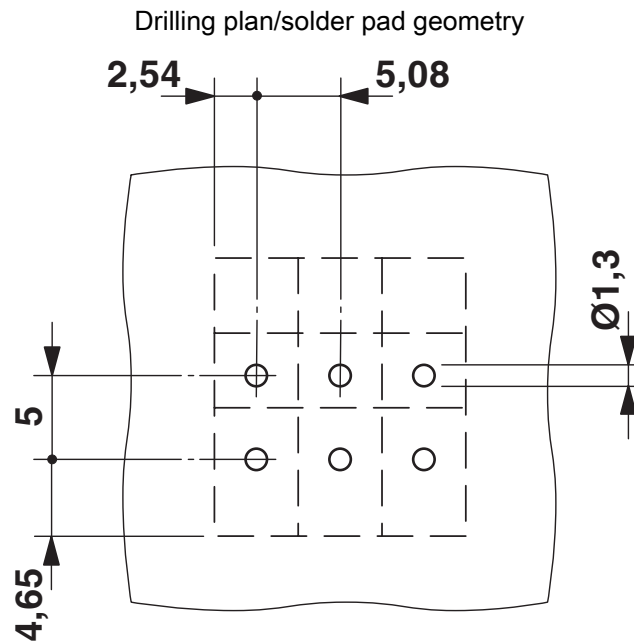
<https://www.phoenixcontact.com/pc/products/1732137>

|                                |                  |
|--------------------------------|------------------|
| Ambient temperature (assembly) | -5 °C ... 100 °C |
|--------------------------------|------------------|

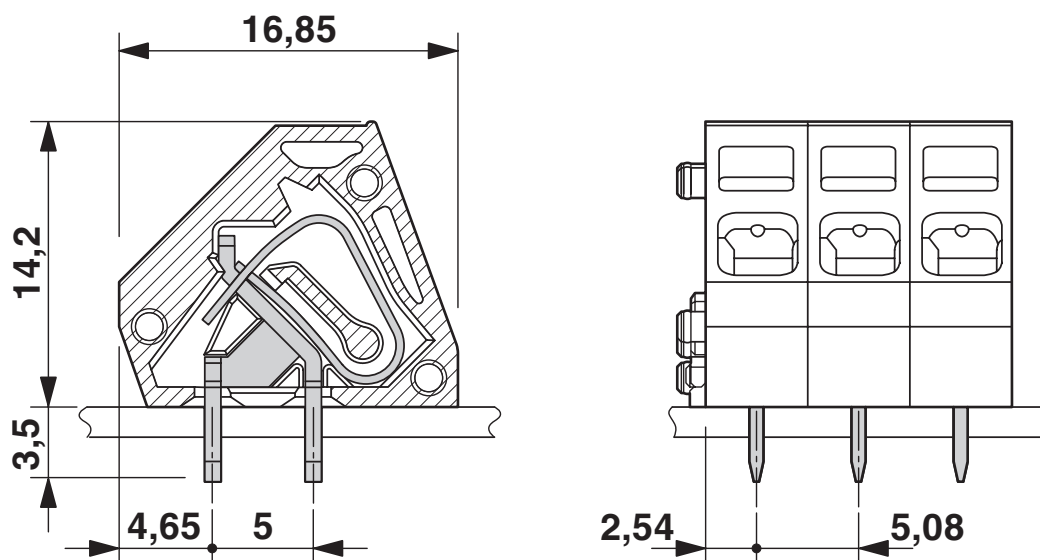
## Packaging specifications

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

## Drawings



Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1732137>

|  <b>IECEx</b><br>Approval ID: IECEx PTB 06.0096U |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                   | 137 V                 | 22 A                  | -                 | 0.2 - 4                     |
| with pitch spacer                                                                                                                 | 275 V                 | 22 A                  | -                 | 0.2 - 4                     |

|  <b>ATEX</b><br>Approval ID: PTB 06 ATEX 1073 U |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                  | 137 V                 | 22 A                  | -                 | 0.2 - 4                     |
| with pitch spacer                                                                                                                | 275 V                 | 22 A                  | -                 | 0.2 - 4                     |

|  <b>EAC Ex</b><br>Approval ID: B.00065/19 |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27460101 |
| ECLASS-12.0 | 27460101 |
| ECLASS-13.0 | 27460101 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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%               |

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