

# PSC 1,5/ 3-M-PE - PCB header



1848122

<https://www.phoenixcontact.com/us/products/1848122>

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PCB headers, nominal cross section: 1.5 mm<sup>2</sup>, color: green, nominal current: 8 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 3, number of rows: 1, number of positions: 3, number of connections: 3, product range: PSC 1,5/..-M, pitch: 3.5 mm, mounting: Wave soldering, pin layout: Zigzag pinning W, solder pin [P]: 3.5 mm, number of solder pins per potential: 1, plug-in system: PSC 1,5, Electrical properties: shielded, Pin connector pattern alignment: Standard, locking: Screw locking mechanism, mounting: Threaded flange, type of packaging: packed in cardboard

## Your advantages

- Well-known connection principle allows worldwide use
- Shroud for professional EMC shield feed-through on the inside of the device
- Screwable flange for superior mechanical stability

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1848122             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | AA02                |
| Product key                          | AABWPB              |
| Catalog page                         | Page 253 (C-1-2013) |
| GTIN                                 | 4017918114220       |
| Weight per piece (including packing) | 6.95 g              |
| Weight per piece (excluding packing) | 6.77 g              |
| Customs tariff number                | 85366930            |
| Country of origin                    | PL                  |

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## Technical data

### Product properties

|                           |                        |
|---------------------------|------------------------|
| Product type              | PCB headers            |
| Product family            | PSC 1,5/...-M          |
| Product line              | COMBICON Connectors S  |
| Type                      | Headers with shielding |
| Number of positions       | 3                      |
| Pitch                     | 3.5 mm                 |
| Number of connections     | 3                      |
| Number of rows            | 1                      |
| Number of potentials      | 3                      |
| Mounting flange           | without                |
| Pin layout                | Zigzag pinning W       |
| Solder pins per potential | 1                      |
| Electrical characteristic | shielded               |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 01 |
|------------------|----|

### Electrical properties

|                             |          |
|-----------------------------|----------|
| Nominal current $I_N$       | 8 A      |
| Nominal voltage $U_N$       | 320 V    |
| Rated voltage (III/3)       | 250 V    |
| Rated surge voltage (III/3) | 4 kV     |
| Rated voltage (III/2)       | 320 V    |
| Rated surge voltage (III/2) | 4 kV     |
| Rated voltage (II/2)        | 630 V    |
| Rated surge voltage (II/2)  | 4 kV     |
| Electrical characteristic   | shielded |

### Mounting

|               |                  |
|---------------|------------------|
| Mounting type | Wave soldering   |
| Pin layout    | Zigzag pinning W |

### 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                   | Tin-plated                                                                       |
| Metal surface contact area (top layer)    | Tin (5 - 7 $\mu\text{m}$ Sn)                                                     |
| Metal surface contact area (middle layer) | Nickel (2 - 3 $\mu\text{m}$ Ni)                                                  |
| Metal surface soldering area (top layer)  | Tin (5 - 7 $\mu\text{m}$ Sn)                                                     |

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|                                             |                      |
|---------------------------------------------|----------------------|
| Metal surface soldering area (middle layer) | Nickel (2 - 3 µm Ni) |
|---------------------------------------------|----------------------|

## 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       |

## Notes

|         |                                    |
|---------|------------------------------------|
| General | With capacitive, middle PE contact |
|---------|------------------------------------|

## Dimensions

|                       |                                                                                      |
|-----------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing   |  |
| Pitch                 | 3.5 mm                                                                               |
| Width [w]             | 30.8 mm                                                                              |
| Height [h]            | 17.5 mm                                                                              |
| Length [l]            | 20.8 mm                                                                              |
| Installed height      | 14 mm                                                                                |
| Solder pin length [P] | 3.5 mm                                                                               |

## PCB design

|               |        |
|---------------|--------|
| Hole diameter | 1.2 mm |
|---------------|--------|

## Electrical tests

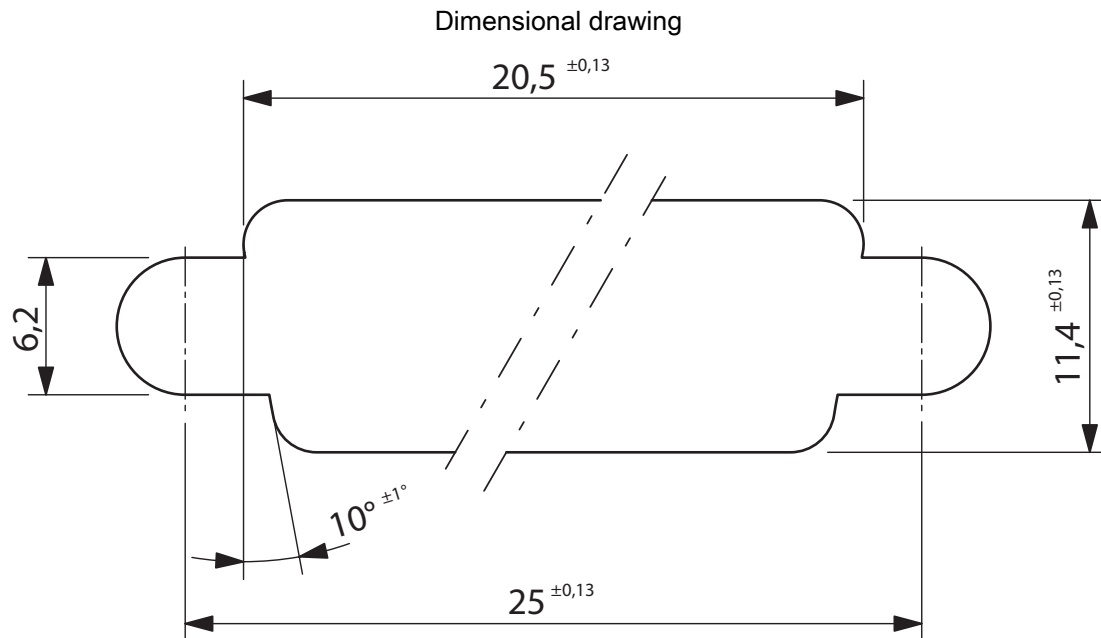
### Air clearances and creepage distances |

|                                  |       |
|----------------------------------|-------|
| Insulating material group        | I     |
| Rated insulation voltage (III/3) | 250 V |
| Rated surge voltage (III/3)      | 4 kV  |
| Rated insulation voltage (III/2) | 320 V |
| Rated surge voltage (III/2)      | 4 kV  |
| Rated insulation voltage (II/2)  | 630 V |
| Rated surge voltage (II/2)       | 4 kV  |

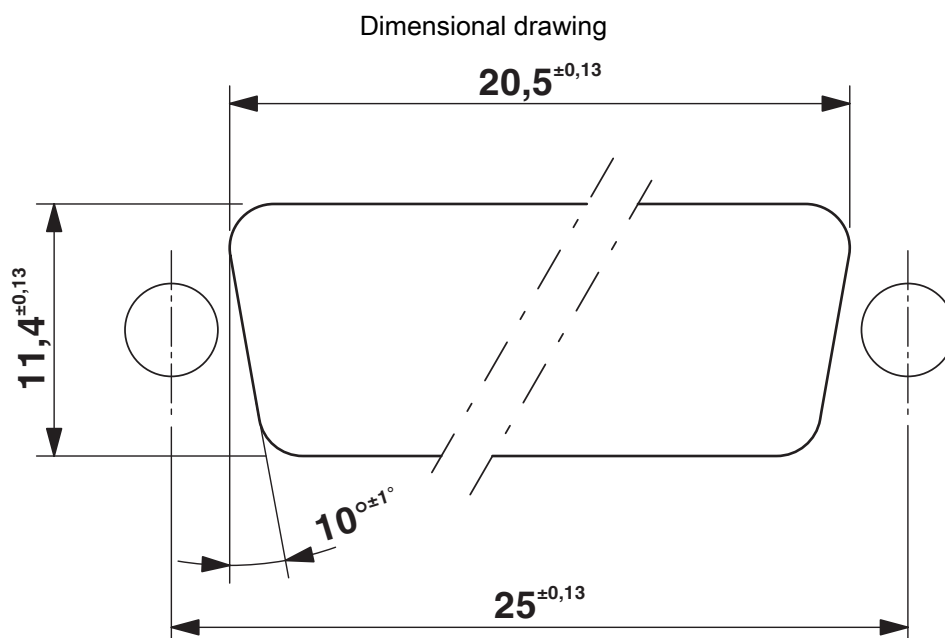
## Packaging specifications

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

## Drawings



Panel cutout in acc. with DIN 41652-3 for walls up to 4.5 mm thick



Panel cutout in acc. with DIN 41652-3 for wall up to 2.0 mm thick

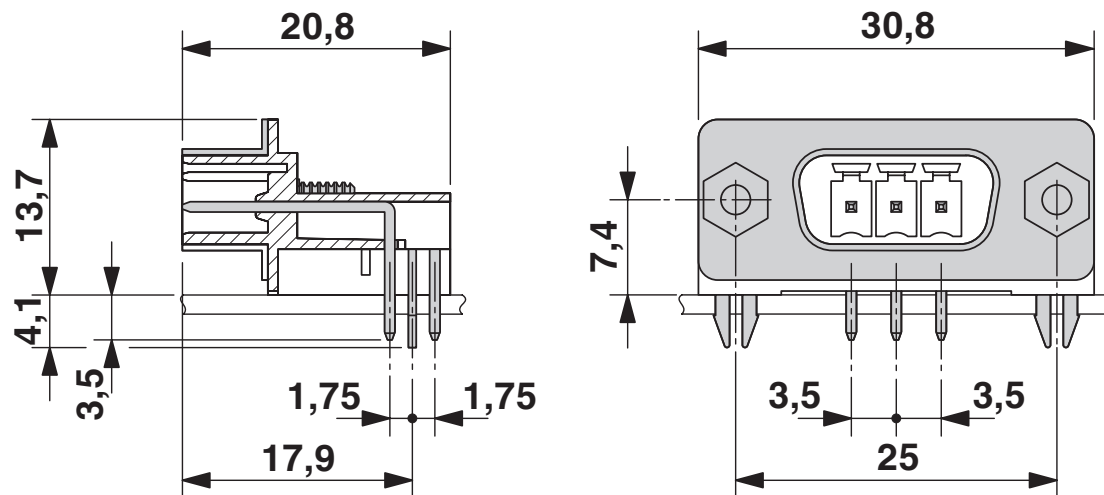
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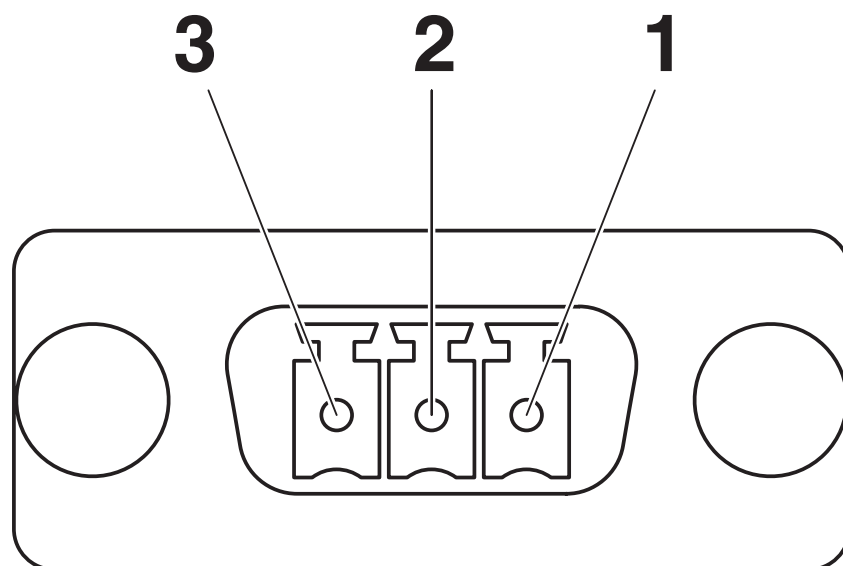
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Dimensional drawing



Schematic diagram



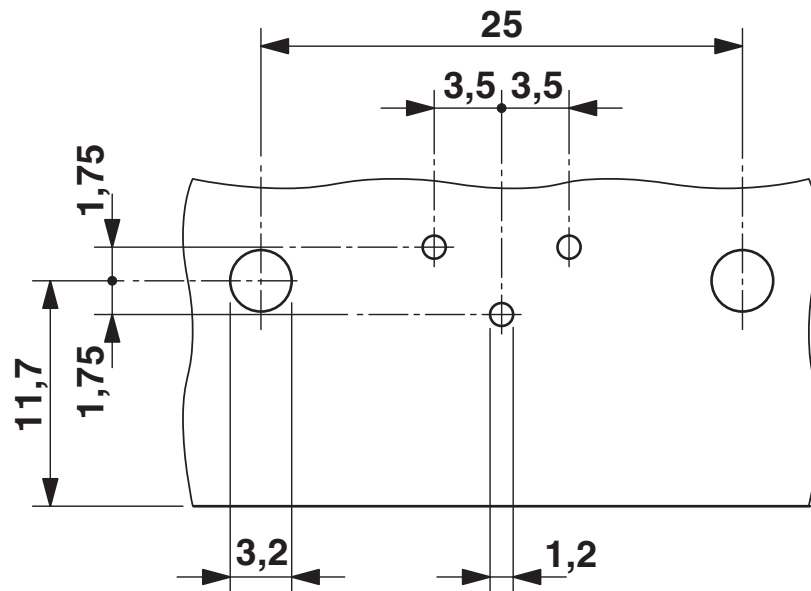
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Drilling plan/solder pad geometry



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1848122>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                        |                       |                       |                   |                             |
|                                                                                                                    | 300 V                 | 8 A                   | -                 | -                           |
| Use group D                                                                                                        |                       |                       |                   |                             |
|                                                                                                                    | 300 V                 | 8 A                   | -                 | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425-19920306 |                       |                       |                   |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                           | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                                               |                       |                       |                   |                             |
|                                                                                                                                           | 300 V                 | 8 A                   | -                 | -                           |
| Use group D                                                                                                                               |                       |                       |                   |                             |
|                                                                                                                                           | 300 V                 | 8 A                   | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27460201 |
| ECLASS-12.0 | 27460201 |
| ECLASS-13.0 | 27460201 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002637 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|                                         |      |
|-----------------------------------------|------|
| EU RoHS                                 |      |
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| China RoHS                             |                                                                                                                                                                                                                                   |
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| EU REACH SVHC                       |                                      |
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 42944fb3-35d1-4c9d-86ce-af9db07cb798 |

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