

# SPT 2,5/ 4-V-EX PROFINET 2 - PCB terminal block



1034460

<https://www.phoenixcontact.com/us/products/1034460>

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Printed circuit board terminal, nominal current: 22 A, nominal cross section: 2.5 mm<sup>2</sup>, number of potentials: 4, number of rows: 1, number of positions per row: 4, product range: SPT 2,5/...-V-EX PROFINET, pitch: 5 mm, connection method: Push-in spring connection, mounting: Wave soldering, conductor/PCB connection direction: 90 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 2.5 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                          | 1034460                        |
| Packing unit                         | 50 pc                          |
| Minimum order quantity               | 50 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AA13                           |
| Product key                          | AAMBFD                         |
| GTIN                                 | 4055626540856                  |
| Weight per piece (including packing) | 6.262 g                        |
| Weight per piece (excluding packing) | 5.982 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            | SPT 2,5/...-V-EX PROFINET      |
| Product line              | COMBICON Terminals M           |
| Sensor type               | PROFINET                       |
| 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                              |

### Data management status

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

### Electrical properties

|                                         |                          |
|-----------------------------------------|--------------------------|
| Nominal current $I_N$                   | 22 A                     |
| Nominal voltage $U_N$                   | 176 V                    |
| Rated current / conductor cross section | 22 A/2.5 mm <sup>2</sup> |

### Ex data

#### Ex approval

|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Identification                  | 0344 <sup>®</sup> II 2GD / Ex eb IIC Gb |
| EU-type examination certificate | KEMA 07ATEX0193 U                       |
| IECEx certificate               | IECEx KEM 07.0057 U                     |

### Connection data

#### Connection technology

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

#### Conductor connection

|                                                                       |                                                                      |
|-----------------------------------------------------------------------|----------------------------------------------------------------------|
| Connection method                                                     | Push-in spring 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>                          |
| Conductor cross section AWG                                           | 24 ... 14                                                            |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Stripping length 8 mm) |
| Conductor cross section, flexible, with ferrule, with plastic sleeve  | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Stripping length 8 mm) |
| Stripping length                                                      | 10 mm                                                                |

### Mounting

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|               |                |
|---------------|----------------|
| 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 (4 - 8 $\mu\text{m}$ Sn)                                                     |
| Metal surface soldering area (top layer) | Tin (4 - 8 $\mu\text{m}$ 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       |

## 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]             | 23.9 mm      |
| Height [h]            | 16.9 mm      |
| Length [l]            | 13.5 mm      |
| Installed height      | 14.4 mm      |
| Solder pin length [P] | 2.5 mm       |
| Pin dimensions        | 0.8 x 0.8 mm |

### PCB design

|               |        |
|---------------|--------|
| Pin spacing   | 8.2 mm |
| Hole diameter | 1.1 mm |

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## 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 %     |
| Ambient temperature (assembly)          | -5 °C ... 100 °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/1034460>



**ATEX**

Approval ID: KEMA 07ATEX0193 U



**IECEx**

Approval ID: IECEx KEM 07.0057U

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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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)