

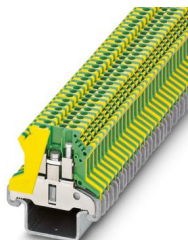
# USLKG 2,5 N-1 - Ground terminal



0443081

<https://www.phoenixcontact.com/sg/products/0443081>

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Ground terminal, number of connections: 2, number of positions: 1, connection method: Screw connection, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting method: PE foot with mounting screw, M2.5, mounting type: NS 35/15-2,3, color: green-yellow

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 0443081             |
| Packing unit                         | 50 pc               |
| Minimum order quantity               | 50 pc               |
| Sales key                            | 0102*               |
| Product key                          | BE1221              |
| Catalog page                         | Page 462 (C-1-2019) |
| GTIN                                 | 4017918155216       |
| Weight per piece (including packing) | 18.2 g              |
| Weight per piece (excluding packing) | 17.6 g              |
| Customs tariff number                | 85369010            |
| Country of origin                    | TR                  |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Number of positions   | 1                     |
| Number of connections | 2                     |
| Number of rows        | 1                     |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
|----------------------|-----|

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 0.77 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 2                   |
| Nominal cross section           | 2.5 mm <sup>2</sup> |

### Level 1 above 1 below 1

|                                                                   |                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------|
| Screw thread                                                      | M3                                                             |
| Note                                                              | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque                                                 | 0.6 ... 0.8 Nm                                                 |
| Stripping length                                                  | 7 mm                                                           |
| Connection in acc. with standard                                  | IEC 60947-7-2                                                  |
| Conductor cross section rigid                                     | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                      |
| Cross section AWG                                                 | 24 ... 12 (converted acc. to IEC)                              |
| Conductor cross section flexible                                  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                    |
| Conductor cross section, flexible [AWG]                           | 24 ... 14 (converted acc. to IEC)                              |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                   |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                   |

### Ex data

#### Rated data (ATEX/IECEx)

|                             |                     |
|-----------------------------|---------------------|
| Identification              | Ⓔ II 2 GD Ex eb IIC |
| Operating temperature range | -60 °C ... 110 °C   |
| Ex-certified accessories    | 1205053 SZS 0,6X3,5 |
|                             | 1201442 E/UK        |
| Torque range for PE foot    | 0.5 Nm ... 0.6 Nm   |
| output                      | (Permanent)         |

#### Ex connection data General

|                       |                     |
|-----------------------|---------------------|
| Torque range          | 0.6 Nm ... 0.8 Nm   |
| Nominal cross section | 2.5 mm <sup>2</sup> |

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|                              |                                             |
|------------------------------|---------------------------------------------|
| Rated cross section AWG      | 14                                          |
| Connection capacity rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Connection capacity AWG      | 24 ... 12                                   |
| Connection capacity flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection capacity AWG      | 24 ... 14                                   |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 5.2 mm  |
| Height             | 42.5 mm |
| Depth on NS 35/7,5 | 42 mm   |

## Material specifications

|                                                                         |              |
|-------------------------------------------------------------------------|--------------|
| Color                                                                   | green-yellow |
| Flammability rating according to UL 94                                  | V0           |
| Insulating material group                                               | I            |
| Insulating material                                                     | PA           |
| Static insulating material application in cold                          | -60 °C       |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C       |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C       |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3  |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg     |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed       |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed       |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed       |

## Mechanical properties

### General

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Terminal block mounting | 0.5 Nm ... 0.6 Nm (PE foot with mounting screw, M2.5) |
|-------------------------|-------------------------------------------------------|

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)         | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)                                                    |
| Ambient temperature (assembly)          | -5 °C ... 70 °C                                                                                                              |
| Ambient temperature (actuation)         | -5 °C ... 70 °C                                                                                                              |
| Permissible humidity (operation)        | 20 % ... 90 %                                                                                                                |

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|                                          |               |
|------------------------------------------|---------------|
| Permissible humidity (storage/transport) | 30 % ... 70 % |
|------------------------------------------|---------------|

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-2 |
|----------------------------------|---------------|

## Mounting

|                         |                                                       |
|-------------------------|-------------------------------------------------------|
| Mounting type           | NS 35/15-2,3                                          |
| Terminal block mounting | 0.5 Nm ... 0.6 Nm (PE foot with mounting screw, M2.5) |

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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/0443081>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                    | -                     | -                     | 24 - 12           | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                  | -                     | -                     | 24 - 12           | -                           |
| Use group C                                                                                                                      |                       |                       |                   |                             |
|                                                                                                                                  | -                     | -                     | 24 - 12           | -                           |

|  <b>ATEX</b><br>Approval ID: KEMA 96ATEX4370 U |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>EAC Ex</b><br>Approval ID: KZ 7500525010101950 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>CCC</b><br>Approval ID: 2020322313000623 |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|---------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|  <b>IECEx</b><br>Approval ID: IECEx KEM 06.0035U |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141141 |
| ECLASS-13.0 | 27250103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000901 |
|----------|----------|

### 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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