

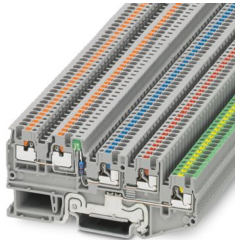
# PTIO 1,5/S/4-PE-LED 24 GN - Sensor/actuator terminal block



3244466

<https://www.phoenixcontact.com/sg/products/3244466>

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Sensor/actuator terminal block, with green LED display and protective conductor function, nom. voltage: 24 V, nominal current: 13.5 A, number of connections: 5, connection method: Push-in connection, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- The compact design and front connection enable wiring in a confined space

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3244466       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | *****         |
| Product key                          | BE2218        |
| GTIN                                 | 4055626009339 |
| Weight per piece (including packing) | 10.786 g      |
| Weight per piece (excluding packing) | 10.068 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Sensor/actuator terminal block |
| Number of connections | 5                              |
| Number of rows        | 4                              |
| Potentials            | 4                              |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                                                 |                           |
|-------------------------------------------------|---------------------------|
| Rated surge voltage                             | 4 kV                      |
| Maximum power dissipation for nominal condition | 0.56 W                    |
| LED voltage range                               | 15 V AC/DC ... 30 V AC/DC |
| LED current range                               | 0.31 mA ... 0.95 mA       |

### Input data

|                   |                           |
|-------------------|---------------------------|
| LED voltage range | 15 V AC/DC ... 30 V AC/DC |
|-------------------|---------------------------|

### Connection data

|                                                                   |                                                                                                            |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Grounding foot                                                    | Yes                                                                                                        |
| Number of connections per level                                   | 2                                                                                                          |
| Nominal cross section                                             | 1.5 mm <sup>2</sup>                                                                                        |
| Rated cross section AWG                                           | 14                                                                                                         |
| Note                                                              | Please observe the current carrying capacity of the DIN rails.                                             |
| Stripping length                                                  | 8 mm                                                                                                       |
| Internal cylindrical gage                                         | A1 / B1                                                                                                    |
| Connection in acc. with standard                                  | IEC 60947-7-1/IEC 60947-7-2                                                                                |
| Conductor cross section rigid                                     | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                                               |
| Cross section AWG                                                 | 26 ... 16 (converted acc. to IEC)                                                                          |
| Conductor cross section flexible                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                                               |
| Conductor cross section, flexible [AWG]                           | 26 ... 16 (converted acc. to IEC)                                                                          |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                                                               |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> Using the AI-S 1-8 TQ ferrule, Item No. 1200293, is recommended |
| Nominal current                                                   | 13.5 A                                                                                                     |
| Maximum load current                                              | 13.5 A                                                                                                     |
| Nominal voltage                                                   | 24 V                                                                                                       |
| Nominal cross section                                             | 1.5 mm <sup>2</sup>                                                                                        |

### Connection cross sections directly pluggable

|                                                                   |                                              |
|-------------------------------------------------------------------|----------------------------------------------|
| Conductor cross section rigid                                     | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |

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|                                                                |                                            |
|----------------------------------------------------------------|--------------------------------------------|
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.34 mm <sup>2</sup> ... 1 mm <sup>2</sup> |
|----------------------------------------------------------------|--------------------------------------------|

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 3.5 mm  |
| End cover width    | 2.2 mm  |
| Height             | 90.8 mm |
| Depth              | 40 mm   |
| Depth on NS 35/7,5 | 41.5 mm |
| Depth on NS 35/15  | 48.5 mm |

## Material specifications

|                                                                         |             |
|-------------------------------------------------------------------------|-------------|
| Color                                                                   | gray        |
| 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

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## 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, no longer than 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 %                                                                                                                |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                                                                                |

## Standards and regulations

# PTIO 1,5/S/4-PE-LED 24 GN - Sensor/actuator terminal block



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|                                  |                             |
|----------------------------------|-----------------------------|
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-2 |
|----------------------------------|-----------------------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

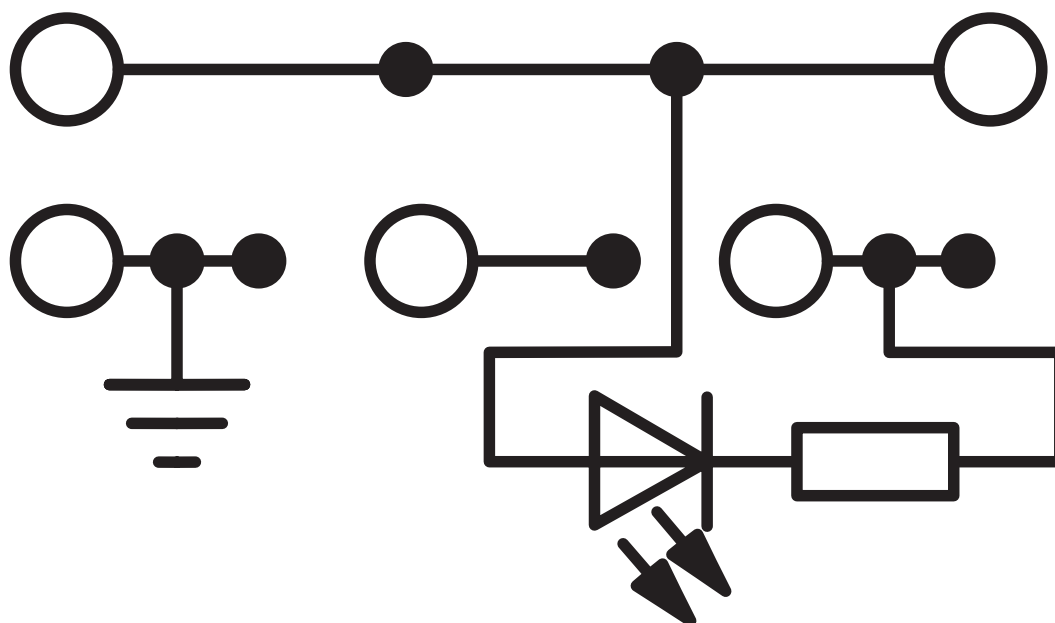
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## Drawings

Circuit diagram



# PTIO 1,5/S/4-PE-LED 24 GN - Sensor/actuator terminal block



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/3244466>



**EAC**

Approval ID: RU C-DE.BL08.B.00644

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141128 |
| ECLASS-12.0 | 27141128 |
| ECLASS-13.0 | 27250112 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000900 |
|----------|----------|

### UNSPSC

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

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Environmental product compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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