

## Sensor/actuator terminal block - PTIO 1,5/S/4 - 3244452

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Sensor/actuator terminal block, Connection method: Push-in connection, Cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, AWG: 26 - 14, Width: 3.5 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

### Product Features

- ✓ 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
- ✓ In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection



### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Minimum order quantity               | 50 pc    |
| Weight per Piece (excluding packing) | 8.4 GRM  |
| Custom tariff number                 | 85369010 |
| Country of origin                    | Poland   |

### Technical data

#### General

|                                         |        |
|-----------------------------------------|--------|
| Number of levels                        | 4      |
| Number of connections                   | 5      |
| Color                                   | gray   |
| Insulating material                     | PA     |
| Inflammability class according to UL 94 | V0     |
| Maximum load current                    | 13.5 A |
| Rated surge voltage                     | 4 kV   |
| Pollution degree                        | 3      |
| Surge voltage category                  | III    |
| Insulating material group               | I      |

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## Technical data

### General

|                                                                                 |                                     |
|---------------------------------------------------------------------------------|-------------------------------------|
| Connection in acc. with standard                                                | IEC 60947-7-1                       |
| Nominal current $I_N$                                                           | 13.5 A                              |
| Nominal voltage $U_N$                                                           | 250 V                               |
| Open side panel                                                                 | ja                                  |
| Shock protection test specification                                             | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection                                                     | guaranteed                          |
| Finger protection                                                               | guaranteed                          |
| Surge voltage test setpoint                                                     | 4.8 kV                              |
| Result of surge voltage test                                                    | Test passed                         |
| Power frequency withstand voltage setpoint                                      | 1.5 kV                              |
| Result of power-frequency withstand voltage test                                | Test passed                         |
| Checking the mechanical stability of terminal points (5 x conductor connection) | Test passed                         |
| Bending test rotation speed                                                     | 10 rpm                              |
| Bending test turns                                                              | 135                                 |
| Bending test conductor cross section/weight                                     | 0.14 mm <sup>2</sup> / 0.2 kg       |
|                                                                                 | 1.5 mm <sup>2</sup> / 0.4 kg        |
| Result of bending test                                                          | Test passed                         |
| Conductor cross section tensile test                                            | 0.14 mm <sup>2</sup>                |
| Tractive force setpoint                                                         | 10 N                                |
| Conductor cross section tensile test                                            | 1.5 mm <sup>2</sup>                 |
| Tractive force setpoint                                                         | 40 N                                |
| Tensile test result                                                             | Test passed                         |
| Tight fit on carrier                                                            | NS 35                               |
| Setpoint                                                                        | 1 N                                 |
| Result of tight fit test                                                        | Test passed                         |
| Requirements, voltage drop                                                      | ≤ 3.2 mV                            |
| Result of voltage drop test                                                     | Test passed                         |
| Temperature-rise test                                                           | Test passed                         |
| Conductor cross section short circuit testing                                   | 1.5 mm <sup>2</sup>                 |
| Short-time current                                                              | 0.18 kA                             |
| Short circuit stability result                                                  | Test passed                         |
| Ageing test for screwless modular terminal block temperature cycles             | 192                                 |
| Result of aging test                                                            | Test passed                         |
| Proof of thermal characteristics (needle flame) effective duration              | 30 s                                |
| Result of thermal test                                                          | Test passed                         |
| Test specification, oscillation, broadband noise                                | DIN EN 50155 (VDE 0115-200):2008-03 |

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### General

|                                                                       |                                                |
|-----------------------------------------------------------------------|------------------------------------------------|
| Test spectrum                                                         | Service life test category 2, bogie mounted    |
| Test frequency                                                        | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level                                                             | $6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$      |
| Acceleration                                                          | 3.12 g                                         |
| Test duration per axis                                                | 5 h                                            |
| Test directions                                                       | X-, Y- and Z-axis                              |
| Oscillation, broadband noise test result                              | Test passed                                    |
| Test specification, shock test                                        | DIN EN 50155 (VDE 0115-200):2008-03            |
| Shock form                                                            | Half-sine                                      |
| Acceleration                                                          | 30 g                                           |
| Shock duration                                                        | 18 ms                                          |
| Number of shocks per direction                                        | 3                                              |
| Test directions                                                       | X-, Y- and Z-axis (pos. and neg.)              |
| Shock test result                                                     | Test passed                                    |
| Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C                                         |
| Static insulating material application in cold                        | -60 °C                                         |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 3.5 mm  |
| Length           | 90.8 mm |
| Height NS 35/7,5 | 41.5 mm |
| Height NS 35/15  | 49 mm   |

### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Connection in acc. with standard                                           | IEC 60947-7-1        |
| Connection method                                                          | Push-in connection   |
| Conductor cross section solid min.                                         | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.                                         | 1.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min.                                     | 26                   |
| Conductor cross section AWG/kcmil max                                      | 14                   |
| Conductor cross section stranded min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.                                      | 1.5 mm <sup>2</sup>  |
| Min. AWG conductor cross section, stranded                                 | 26                   |
| Max. AWG conductor cross section, stranded                                 | 14                   |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.    | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.    | 1 mm <sup>2</sup>    |

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### Technical data

#### Connection data

|                           |         |
|---------------------------|---------|
| Stripping length          | 8 mm    |
| Internal cylindrical gage | A1 / B1 |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141118 |
| eCl@ss 4.1 | 27141118 |
| eCl@ss 5.0 | 27141118 |
| eCl@ss 5.1 | 27141118 |
| eCl@ss 6.0 | 27141128 |
| eCl@ss 7.0 | 27141128 |
| eCl@ss 8.0 | 27141128 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000900 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |

### Approvals

#### Approvals

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Approvals

GOST

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Ex Approvals

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Approvals submitted

## Sensor/actuator terminal block - PTIO 1,5/S/4 - 3244452

### Approvals

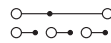
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#### Approval details

GOST 

### Drawings

#### Circuit diagram



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

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- Входной контроль качества.
- Наличие сертификата ISO.

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- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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