

## Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 RD - 3244423

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Sensor/actuator terminal block, with red light indicator, 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) | 7.2 g    |
| Custom tariff number                 | 85369010 |
| Country of origin                    | Poland   |

### Technical data

#### General

|  |   |
|--|---|
| Number of levels                       | 3   |
| Number of connections                  | 4   |
| Nominal cross section                  | 1.5 mm <sup>2</sup>                                     |
| Color                                  | gray  |
| Insulating material                    | PA  |
| Flammability rating according to UL 94 | V0  |
| Maximum load current                   | 13.5 A (with 4 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage                    | 4 kV  |
| LED voltage range                      | 15 V DC ... 24 V AC                                     |
| LED current range                      | 0.31 mA ... 0.95 mA                                     |

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### Technical data

#### General

|   |                                     |
|---|-------------------------------------|
| Degree of pollution   | 3                                   |
| Overvoltage category  | III                                 |
| Insulating material group   | I                                   |
| Connection in acc. with standard  | IEC 60947-7-1                       |
| Maximum load current  | 13.5 A                              |
| Nominal current I <sub>N</sub>  | 13.5 A                              |
| Nominal voltage U <sub>N</sub>  | 250 V                               |
| Open side panel   | Yes                                 |
| Shock protection test specification   | DIN EN 50274 (VDE 0660-514):2002-11 |
| Back of the hand protection   | guaranteed                          |
| Finger protection   | guaranteed                          |
| Result of surge voltage test  | Test passed                         |
| Surge voltage test setpoint   | 4.8 kV                              |
| Result of power-frequency withstand voltage test  | Test passed                         |
| Power frequency withstand voltage setpoint  | 1.5 kV                              |
| Result of the test for mechanical stability of terminal points (5 x conductor connection) | Test passed                         |
| Result of bending test  | 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        |
| Tensile test result   | 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                                |
| Result of tight fit on support  | Test passed                         |
| Tight fit on carrier  | NS 35                               |
| Setpoint  | 1 N                                 |
| Result of voltage-drop test   | Test passed                         |
| Requirements, voltage drop  | ≤ 3.2 mV                            |
| Result of temperature-rise test   | Test passed                         |
| Short circuit stability result  | Test passed                         |
| Conductor cross section short circuit testing   | 1.5 mm <sup>2</sup>                 |
| Short-time current  | 0.18 kA                             |
| Result of aging test  | Test passed                         |

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### Technical data

#### General

|   |  |
|---|--|
| Ageing test for screwless modular terminal block temperature cycles     | 192  |
| Result of thermal test  | Test passed                                    |
| Proof of thermal characteristics (needle flame) effective duration      | 30 s   |
| Oscillation, broadband noise test result                                | Test passed                                    |
| Test specification, oscillation, broadband noise                        | DIN EN 50155 (VDE 0115-200):2008-03            |
| 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                              |
| Shock test result   | Test passed                                    |
| Test specification, shock test  | DIN EN 50155 (VDE 0115-200):2008-03            |
| Shock form  | Half-sine                                      |
| Acceleration  | 30g  |
| Shock duration  | 18 ms  |
| Number of shocks per direction  | 3  |
| Test directions   | X-, Y- and Z-axis (pos. and neg.)              |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C   |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C   |
| Static insulating material application in cold                          | -60 °C   |

#### Dimensions

|                  |         |
|------------------|---------|
| Width            | 3.5 mm  |
| End cover width  | 2.2 mm  |
| Length           | 74.4 mm |
| Height NS 35/7,5 | 41.5 mm |
| Height NS 35/15  | 49 mm   |

#### Connection data

|                                       |                      |
|---------------------------------------|----------------------|
| Connection method                     | Push-in connection   |
| Connection in acc. with standard      | IEC 60947-7-1        |
| 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 min.      | 26                   |
| Conductor cross section AWG max.      | 14                   |
| Conductor cross section flexible min. | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max. | 1.5 mm <sup>2</sup>  |

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## Technical data

### Connection data

|  |                      |
|--|----------------------|
| Min. AWG conductor cross section, flexible                                 | 26                   |
| Max. AWG conductor cross section, flexible                                 | 14                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1 mm <sup>2</sup>    |
| Stripping length   | 8 mm ... 10 mm       |
| Internal cylindrical gage  | A1 / B1              |

### Standards and Regulations

|  |               |
|--|---------------|
| Connection in acc. with standard       | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0            |

## 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

# Sensor/actuator terminal block - PTIO 1,5/S/3-LED 24 RD - 3244423

## Approvals

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Approvals

EAC / CSA / UL Recognized / cUL Recognized / cULus Recognized

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Ex Approvals


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Approvals submitted


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## Approval details

|     |
|-----|
| EAC |
|-----|

| CSA  |       |       |       |
|---|-------|-------|-------|
|   | B     | C     | D     |
| mm <sup>2</sup> /AWG/kcmil  | 26-14 | 26-14 | 26-14 |
| Nominal current IN  | 10 A  | 15 A  | 10 A  |
| Nominal voltage UN  | 300 V | 150 V | 300 V |

| UL Recognized  |       |       |       |
|---|-------|-------|-------|
|   | B     | C     | D     |
| mm <sup>2</sup> /AWG/kcmil  | 26-14 | 26-14 | 26-14 |
| Nominal current IN  | 15 A  | 15 A  | 10 A  |
| Nominal voltage UN  | 300 V | 150 V | 300 V |

| cUL Recognized  |       |       |       |
|--|-------|-------|-------|
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| mm <sup>2</sup> /AWG/kcmil   | 26-14 | 26-14 | 26-14 |
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### Drawings

Circuit diagram

