

## Distribution block - PTFIX 2X4 GY - 1028360

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Distribution block, Basic terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Push-in connection, number of connections: 2, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, AWG: 24 - 10, width: 6.2 mm, height: 21.7 mm, color: gray, mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging

### Your advantages

- ✓ Time-saving conductor connection, thanks to tool-free Push-in direct connection technology
- ✓ Space savings of up to 50% on the DIN rail, thanks to transverse mounting
- ✓ Flexible use, thanks to DIN rail mounting, direct mounting or adhesive mounting
- ✓ Clear wiring, thanks to eleven different color variants



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| Minimum order quantity               | 50 pc   |
| GTIN                                 | <br>4 0 5 5 6 2 6 5 2 6 9 0 4 |
| GTIN                                 | 4055626526904   |
| Weight per Piece (excluding packing) | 4.800 g   |
| Custom tariff number                 | 85369010  |
| Country of origin                    | Poland  |

### Technical data

#### General

|                       |                   |
|-----------------------|-------------------|
| Number of levels      | 1                 |
| Number of connections | 2                 |
| Potentials            | 1                 |
| Nominal cross section | 4 mm <sup>2</sup> |

# Distribution block - PTFIX 2X4 GY - 1028360

## Technical data

### General

|   |   |
|---|---|
| Color   | gray  |
| Insulating material   | PA  |
| Flammability rating according to UL 94  | V0  |
| Rated surge voltage   | 6 kV  |
| Degree of pollution   | 3   |
| Overvoltage category  | III   |
| Insulating material group   | I   |
| Maximum load current  | 38 A (bei 6 mm <sup>2</sup> Leiterquerschnitt starr)  |
| Nominal current I <sub>N</sub>  | 32 A  |
| Nominal voltage U <sub>N</sub>  | 800 V   |
| Open side panel   | No  |
| 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   |
| Result of power-frequency withstand voltage test  | Test passed   |
| Power frequency withstand voltage setpoint  | 2 kV  |
| Result of the test for mechanical stability of terminal points (5 x conductor connection) | Test passed   |
| Result of flexion and pull-out test   | Test passed   |
| Bending test rotation speed   | 10 rpm  |
| Bending test turns  | 135   |
| Bending test conductor cross section/weight   | 0.2 mm <sup>2</sup> / 0.2 kg  |
|   | 4 mm <sup>2</sup> / 0.9 kg  |
| Tensile test result   | Test passed   |
| Conductor cross section tensile test  | 0.2 mm <sup>2</sup>   |
| Tractive force setpoint   | 10 N  |
| Conductor cross section tensile test  | 4 mm <sup>2</sup>   |
| Tractive force setpoint   | 60 N  |
| Conductor cross section tensile test  | 6 mm <sup>2</sup>   |
| Tractive force setpoint   | 80 N  |
| Result of tight fit on support  | Test passed   |
| Note  | When aligning several blocks, the foot elements should be placed in a way that maximum 2 blocks are free-hanging in between. Flange elements should be placed after every 6 blocks. |
|   | Depending on the application case and mechanical load, other arrangements of the mounting accessory can also be chosen.   |
|   | One DIN rail adapter PTFIX-NS35 is intended for maximum 9 blocks.   |

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### Technical data

#### General

|   |  |
|---|--|
| Result of voltage-drop test   | Test passed  |
| Requirements, voltage drop  | $U_1 \leq 3.2 \text{ mV}; U_2 \leq 1.5 \times U_1$ |
| Result of temperature-rise test   | Test passed  |
| Requirement temperature-rise test                                       | Increase in temperature $\leq 45 \text{ K}$        |
| Short circuit stability result  | Test passed  |
| Conductor cross section short circuit testing                           | 4 mm <sup>2</sup>                                  |
| Short-time current  | 0.48 kA  |
| Conductor cross section short circuit testing                           | 6 mm <sup>2</sup>                                  |
| Short-time current  | 0.72 kA  |
| Result of thermal test  | Test passed  |
| Proof of thermal characteristics (needle flame) effective duration      | 30 s   |
| Result of aging test  | Test passed  |
| Ageing test for screwless modular terminal block temperature cycles     | 192  |
| 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 (m/s <sup>2</sup> ) <sup>2</sup> /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   |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed   |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed   |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg   |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed   |
| 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  |

## Distribution block - PTFIX 2X4 GY - 1028360

### Technical data

#### General

|  |             |
|--|-------------|
| 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 |

#### Dimensions

|        |         |
|--------|---------|
| Width  | 6.2 mm  |
| Length | 28.6 mm |
| Height | 21.7 mm |

#### Connection data

|  |   |
|--|---|
| Connection method  | Push-in connection  |
| Stripping length   | 10 mm ... 12 mm   |
| Note   | The IEC 60947-7-1 standard applies for the use of mounting accessories. |
| Conductor cross section solid min.   | 0.2 mm <sup>2</sup>   |
| Conductor cross section solid max.   | 6 mm <sup>2</sup>   |
| Conductor cross section AWG min.   | 24  |
| Conductor cross section AWG max.   | 10  |
| Conductor cross section flexible min.                                      | 0.2 mm <sup>2</sup>   |
| Conductor cross section flexible max.                                      | 4 mm <sup>2</sup>   |
| Min. AWG conductor cross section, flexible                                 | 24  |
| Max. AWG conductor cross section, flexible                                 | 10  |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.2 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.2 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 4 mm <sup>2</sup>   |
| Connection cross sections directly pluggable                               | 0.5 mm <sup>2</sup> 6 mm <sup>2</sup>                                   |
| Conductor cross section solid min.   | 0.5 mm <sup>2</sup>   |
| Conductor cross section solid max.   | 6 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.75 mm <sup>2</sup>  |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.5 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 4 mm <sup>2</sup>   |
| Internal cylindrical gage  | A4  |

#### Ambient conditions

|  |   |
|--|---|
| Operating temperature                    | -60 °C ... 105 °C (max. short-term operating temperature 130 °C)          |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Permissible humidity (storage/transport) | 30 % ... 70 %   |
| Ambient temperature (assembly)           | -5 °C ... 70 °C   |
| Ambient temperature (actuation)          | -5 °C ... 70 °C   |

# Distribution block - PTFIX 2X4 GY - 1028360

## Technical data

### Standards and Regulations

|  |    |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

### Environmental Product Compliance

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

## Drawings

### Circuit diagram



## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 11.0   | 27141120 |
| eCl@ss 4.0    | 27141121 |
| eCl@ss 4.1    | 27141121 |
| eCl@ss 5.0    | 27141120 |
| eCl@ss 5.1    | 27141120 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141120 |
| eCl@ss 9.0    | 27141120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 20.0 | 39121410 |
| UNSPSC 21.0 | 39121410 |

## Approvals

### Approvals


#### Approvals


EAC / CSA / UL Recognized / cUL Recognized / IECCE CB Scheme / DNV GL / EAC / LR / BV / VDE Zeichengenehmigung / cULus Recognized

#### Ex Approvals

### Approval details


|     |   |                          |
|-----|---|--------------------------|
| EAC |  | RU C-<br>DE.AI30.B.01102 |
|-----|---|--------------------------|


|                            |   |   |       |
|----------------------------|---|---|-------|
| CSA                        |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                            | B   | C   |       |
| Nominal voltage UN         | 600 V   | 600 V   |       |
| Nominal current IN         | 32 A  | 32 A  |       |
| mm <sup>2</sup> /AWG/kcmil | 24-10   | 24-10   |       |


|                            |   |   |              |
|----------------------------|---|---|--------------|
| UL Recognized              |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B   | C   |              |
| Nominal voltage UN         | 600 V   | 600 V   |              |
| Nominal current IN         | 32 A  | 32 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 24-10   | 24-10   |              |

## Distribution block - PTFIX 2X4 GY - 1028360


### Approvals

|                            |   |   |              |
|----------------------------|---|---|--------------|
| cUL Recognized             |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B   | C   |              |
| Nominal voltage UN         | 600 V   | 600 V   |              |
| Nominal current IN         | 32 A  | 32 A  |              |
| mm <sup>2</sup> /AWG/kcmil | 24-10   | 24-10   |              |

|                            |   |   |           |
|----------------------------|---|---|-----------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-61977 |
| Nominal voltage UN         | 450 V   |   |           |
| Nominal current IN         | 32 A  |   |           |
| mm <sup>2</sup> /AWG/kcmil | 4   |   |           |

|                    |   |   |            |
|--------------------|---|---|------------|
| DNV GL             |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE00002TT |
| Nominal voltage UN | 500 V   |   |            |
| Nominal current IN | 24 A  |   |            |

|     |   |  |                          |
|-----|---|--|--------------------------|
| EAC |  |  | RU C-<br>DE.BL08.B.00644 |
|-----|---|--|--------------------------|

|    |   |   |             |
|----|---|---|-------------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | LR2002627TA |
|----|---|---|-------------|

|    |   |   |             |
|----|---|---|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 59146/A0 BV |
|----|---|---|-------------|

## Distribution block - PTFIX 2X4 GY - 1028360

### Approvals

|                            |  |   |          |
|----------------------------|--|---|----------|
| VDE Zeichengenehmigung     |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40047798 |
| Nominal voltage UN         |  | 450 V   |          |
| Nominal current IN         |  | 32 A  |          |
| mm <sup>2</sup> /AWG/kcmil |  | 0.2-4   |          |

|                  |  |
|------------------|--|
| cULus Recognized |  |
|------------------|--|

### Accessories

#### Accessories

#### Labeled terminal marker

Marker card - SK 6,2/3,8:FORTL.ZAHLEN - 0804374



Marker card, Card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... (99)100, mounting type: adhesive, for terminal block width: 6.2 mm, lettering field size: 6.2 x 3.8 mm

Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 1-10 - 0804374:0001



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 1 ... 10, 10-section marker strips with 12 identical decades, white

Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 11-20 - 0804374:0011



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 11 ... 20, 10-section marker strips with 12 identical decades, white

## Distribution block - PTFIX 2X4 GY - 1028360

### Accessories

Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 21-30 - 0804374:0021



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 21 ... 30, 10-section marker strips with 12 identical decades, white

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Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 31-40 - 0804374:0031



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 31 ... 40, 10-section marker strips with 12 identical decades, white

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Marker for terminal blocks - SK 6,2/3,8:FORTL.ZAHLEN 41-50 - 0804374:0041



Marker card, self-adhesive, horizontally labeled with the consecutive numbers: 41 ... 50, 10-section marker strips with 12 identical decades, white

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### Mounting material

Flange - PTFIX-F - 3274060



Flange, with screw-on fixing, length: 28.6 mm, width: 8.6 mm, height: 21.7 mm, color: gray

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DIN rail adapter - PTFIX-NS15A - 3274058



DIN rail adapter, length: 28.6 mm, width: 10.3 mm, height: 10.8 mm, color: gray

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## Distribution block - PTFIX 2X4 GY - 1028360

### Accessories

DIN rail adapter - PTFIX-NS15A-FIX - 3274059



DIN rail adapter, with end stop function, length: 28.6 mm, width: 10.3 mm, height: 10.8 mm, color: gray

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DIN rail adapter - PTFIX-NS35 - 3274054



DIN rail adapter, length: 58.1 mm, width: 28.6 mm, height: 11 mm, color: gray

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DIN rail adapter - PTFIX-NS35A - 3274056



DIN rail adapter, length: 45.7 mm, width: 10.3 mm, height: 11.9 mm, color: gray

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DIN rail adapter - PTFIX-NS35A-FIX - 3274057



DIN rail adapter, with end stop function, length: 45.7 mm, width: 10.3 mm, height: 12 mm, color: gray

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### Terminal marking

Marker for terminal blocks - US-TML (104X3,8) - 0830768



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 3.8 mm, Number of individual labels: 22

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## Distribution block - PTFIX 2X4 GY - 1028360

### Accessories

#### Marker for terminal blocks - US-TML (104X2,8) - 0830767



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: adhesive, lettering field size: 104 x 2.8 mm, Number of individual labels: 26

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#### Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 3.8 mm, Number of individual labels: 1440

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#### Marker card - SK U/2,8 WH:UNBEDRUCKT - 0803883



Marker card, Sheet, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 2.8 mm, Number of individual labels: 3600

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#### Marking foil for zack marker strip - TML (EX3,8)R - 0801837



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 3.8 mm, Number of individual labels: 1

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#### Marking foil for zack marker strip - TML (104X3,8)R - 0801833



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 3.8 mm, Number of individual labels: 2500

## Distribution block - PTFIX 2X4 GY - 1028360

### Accessories

#### Marking foil for zack marker strip - TML (104X2,8)R - 0801832



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 104 mm, lettering field size: 104 x 2.8 mm, Number of individual labels: 2500

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#### Marking foil for zack marker strip - TML (EX2,8)R - 0801836



Marking foil for zack marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, for terminal block width: 30000 mm, lettering field size: 30000 x 2.8 mm, Number of individual labels: 1

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#### Label - MM-TML (EX3,8)R C1 WH/BK - 1092026



Label, Roll, white, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, for terminal block width: 8000 mm, lettering field size: continuous x 3.8 mm

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