

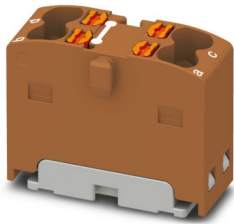
PTFIX 4X1,5 BN - Distribution block



1046614

<https://www.phoenixcontact.com/it/products/1046614>

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Distribution block, nom. voltage: 450 V, nominal current: 17.5 A, number of connections: 4, connection method: Push-in connection, cross section: 0.14 mm² - 2.5 mm², mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: brown

Your advantages

- Convenient test options, thanks to test openings at every terminal point
- Space-saving potential distribution, thanks to compact micro potential distributors
- Flexible use, thanks to direct mounting with flange covers from accessories
- Space-saving, thanks to the compact design
- Clear arrangement thanks to marking of all terminal points

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1046614

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Technical data

Notes

Notes on operation	the blocks can be bridged with one another via the conductor shaft, for corresponding plug-in bridges, see accessories
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General

Note	The maximum load current of a single clamping unit must not be exceeded.
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Product properties

Number of connections	4
Number of rows	1
Potentials	1

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.56 W

Connection data

Number of connections per level	4
Nominal cross section	1.5 mm ²
Rated cross section AWG	14
Connection method	Push-in connection
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A2 / B1
Connection in acc. with standard	IEC 60998-2-2
Conductor cross-section rigid	0.14 mm ² ... 2.5 mm ²
Cross section AWG	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross-section, flexible [AWG]	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 1.5 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm ² ... 1.5 mm ²
Nominal current	17.5 A
Maximum load current	22 A
Maximum total current	26 A
Nominal voltage	450 V

Connection cross sections directly pluggable

Conductor cross-section rigid	0.34 mm ² ... 2.5 mm ²
Conductor cross-section, rigid [AWG]	26 ... 14 (converted acc. to IEC)

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1046614

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Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm ² ... 1.5 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.34 mm ² ... 1.5 mm ²

Dimensions

Width	8.3 mm
Height	21.6 mm
Depth	17.7 mm

Material specifications

Color	brown (RAL 8028)
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))	125 °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)	27,5 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

Electrical tests

Surge voltage test

Result	Test passed
Short-time withstand current 1.5 mm ²	0.18 kA
Short-time withstand current 2.5 mm ²	0.3 kA
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
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Mechanical tests

Mechanical strength

Result	Test passed
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1046614

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Attachment on the carrier

DIN rail/fixing support	NS 35/NS 15
Test force setpoint	1 N
Result	Test passed
Note	When aligning several blocks, it is recommended to either place a DIN rail adapter underneath the connection point or a flange element between the blocks. For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block. When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.

Test for conductor damage and slackening

Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.14 mm ² / 0.2 kg
	1.5 mm ² / 0.4 kg
	2.5 mm ² / 0.7 kg
Result	Test passed

Environmental and real-life conditions

Aging

Temperature cycles	192
Result	Test passed

Needle-flame test

Time of exposure	30 s
Result	Test passed

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3

PTFIX 4X1,5 BN - Distribution block



1046614

<https://www.phoenixcontact.com/it/products/1046614>

Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

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

Standards and regulations

Connection in acc. with standard	IEC 60998-2-2
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Mounting

Mounting type	for snapping onto a DIN rail adapter
	Direct mounting with flange
	Free-hanging

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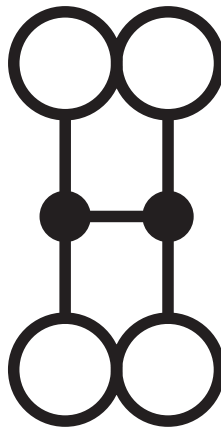
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Drawings

Circuit diagram



Graphic



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/it/products/1046614>

DNV Approval ID: TAE00002TT-05				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	500 V	24 A	-	-

CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	20 A	26 - 12	-
C				
	150 V	20 A	26 - 12	-
D				
	300 V	10 A	26 - 12	-

IECEE CB Scheme Approval ID: DE1-63083				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	450 V	17.5 A	-	- 1.5

EAC Approval ID: RU C-DE.BL08.B.00644				
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VDE Zeichengenehmigung Approval ID: 40047798				
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cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
B				
	300 V	20 A	26 - 12	-
C				
	150 V	20 A	26 - 12	-
F				
	500 V	20 A	26 - 12	-

PTFIX 4X1,5 BN - Distribution block



1046614

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D				
	300 V	10 A	26 - 12	-



EAC
Approval ID: KZ7500651131219505

PTFIX 4X1,5 BN - Distribution block



1046614

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Classifications

ECLASS

ECLASS-13.0	27250118
ECLASS-15.0	27250118

ETIM

ETIM 10.0	EC000897
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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Accessories

i Note: Applying some accessories below might limit this product.

FBS 2-4 - Plug-in bridge

3030116

<https://www.phoenixcontact.com/it/products/3030116>



Plug-in bridge, pitch: 4.2 mm, number of positions: 2, nominal current: 17.5 A, color: red

i Max. current carrying capacity: 17.5 A

FBS 2-4 GY - Plug-in bridge

3030118

<https://www.phoenixcontact.com/it/products/3030118>



Plug-in bridge, pitch: 4.2 mm, number of positions: 2, nominal current: 17.5 A, color: gray

i Max. current carrying capacity: 17.5 A

PTFIX 4X1,5 BN - Distribution block



1046614

<https://www.phoenixcontact.com/it/products/1046614>

FBS 2-4 BU - Plug-in bridge

3030117

<https://www.phoenixcontact.com/it/products/3030117>



Plug-in bridge, pitch: 4.2 mm, number of positions: 2, nominal current: 17.5 A, color: blue

 Max. current carrying capacity: 17.5 A

PTFIX 1,5-F - Flange

1049503

<https://www.phoenixcontact.com/it/products/1049503>



Flange, With screw fixing, for direct mounting of the 1.5 mm² FIX blocks, depth: 17.7 mm, width: 7.7 mm, height: 21.6 mm, color: gray, mounting type: Screw mounting

PTFIX 4X1,5 BN - Distribution block



1046614

<https://www.phoenixcontact.com/it/products/1046614>

PTFIX 1,5-NS15A - DIN rail adapter

1049500

<https://www.phoenixcontact.com/it/products/1049500>

DIN rail adapter, for NS 15 for accommodating 1.5 mm² FIX blocks in horizontal direction, color: gray



PTFIX 1,5-NS35 - DIN rail adapter

1049497

<https://www.phoenixcontact.com/it/products/1049497>

DIN rail adapter, for NS 35 and NS 15 for accommodating 1.5 mm² FIX blocks in vertical direction, color: gray



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1046614

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PTFIX 1,5-NS35AD - DIN rail adapter

1049498

<https://www.phoenixcontact.com/it/products/1049498>



DIN rail adapter, for NS 35 for accommodating two 1.5 mm² FIX blocks in horizontal direction, color: gray

PTFIX 1,5-RZF - Mounting adapter

1050613

<https://www.phoenixcontact.com/it/products/1050613>

Adapter for direct mounting



PTFIX 4X1,5 BN - Distribution block

1046614

<https://www.phoenixcontact.com/it/products/1046614>



PTFIX 1,5-RZ - Mounting adapter

1632415

<https://www.phoenixcontact.com/it/products/1632415>

Securing pin adapter, for direct mounting of 1.5 mm² FIX blocks, color: gray



SK 3,8 REEL P4,15 WH CUS - Marker card

0825990

<https://www.phoenixcontact.com/it/products/0825990>

Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 4.15 mm



PTFIX 4X1,5 BN - Distribution block



1046614

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TML (EX3,8)R - Marker strip

0801837

<https://www.phoenixcontact.com/it/products/0801837>



Marker strip, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 12, roll length: 30 m, text field height: 3.8 mm, text field width: 30000 mm

TML (104X3,8)R - Marker strip

0801833

<https://www.phoenixcontact.com/it/products/0801833>



Marker strip, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 2500, text field height: 3.8 mm, text field width: 104 mm

PTFIX 4X1,5 BN - Distribution block



1046614

<https://www.phoenixcontact.com/it/products/1046614>

TML (104X2,8)R - Marker strip

0801832

<https://www.phoenixcontact.com/it/products/0801832>



Marker strip, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 2500, text field height: 2.8 mm, text field width: 104 mm

TML (EX2,8)R - Marker strip

0801836

<https://www.phoenixcontact.com/it/products/0801836>



Marker strip, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMaster 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 14, roll length: 30 m, text field height: 2.8 mm, text field width: 30000 mm

PTFIX 4X1,5 BN - Distribution block

1046614

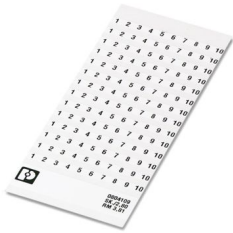
<https://www.phoenixcontact.com/it/products/1046614>



SK 2,8 REEL P4,15 WH CUS - Marker card

8199987

<https://www.phoenixcontact.com/it/products/8199987>



Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 4.15 mm

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

0830768

<https://www.phoenixcontact.com/it/products/0830768>



Marker for terminal blocks, Card, white, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 22, text field height: 3.8 mm, text field width: 104 mm

PTFIX 4X1,5 BN - Distribution block

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<https://www.phoenixcontact.com/it/products/1046614>



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

0830767

<https://www.phoenixcontact.com/it/products/0830767>



Marker for terminal blocks, Card, white, unmarked, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 26, text field height: 2.8 mm, text field width: 104 mm

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

0803906

<https://www.phoenixcontact.com/it/products/0803906>



Marker card, Din A4, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, Number of individual labels: 1440, text field height: 3.8 mm, text field width: 186 mm

PTFIX 4X1,5 BN - Distribution block

1046614

<https://www.phoenixcontact.com/it/products/1046614>



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

0803883

<https://www.phoenixcontact.com/it/products/0803883>



Marker card, Din A4, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, Number of individual labels: 3600, text field height: 2.8 mm, text field width: 186 mm

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

1092026

<https://www.phoenixcontact.com/it/products/1092026>



Label, Roll, white/black, unmarked, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, Number of individual labels: 1, roll length: 8 m, text field height: 3.8 mm, text field width: 8000 mm

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<https://www.phoenixcontact.com/it/products/1046614>



ISH 1,5/0,2 - Insulating sleeve

3206131

<https://www.phoenixcontact.com/it/products/3206131>

Insulating sleeve, color: white



ISH 1,5/0,5 - Insulating sleeve

3031034

<https://www.phoenixcontact.com/it/products/3031034>

Insulating sleeve, color: gray



PTFIX 4X1,5 BN - Distribution block

1046614

<https://www.phoenixcontact.com/lt/products/1046614>



MPS-MT 1-S4-B RD - Accessories

1982800

<https://www.phoenixcontact.com/lt/products/1982800>

Test plug terminal block



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