

# PT 4-TWIN OG - Feed-through terminal block



1080104

<https://www.phoenixcontact.com/sg/products/1080104>

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, number of connections: 3, connection method: Push-in connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: orange

## Your advantages

- The compact design and front connection enable wiring in a confined space
- 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
- Tested for railway applications

## Commercial data

Item number	1080104
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	*****
Product key	BE2212
GTIN	4055626802022
Weight per piece (including packing)	10.88 g
Weight per piece (excluding packing)	10.88 g
Customs tariff number	85369010
Country of origin	CN

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## Technical data

### Product properties

Product type	Multi-conductor terminal block
Area of application	Railway industry
	Railway industry
	Railway industry
	Railway industry
Number of connections	3
Number of rows	1
Potentials	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.02 W

### Connection data

Number of connections per level	3
Nominal cross section	4 mm <sup>2</sup>
Stripping length	10 mm ... 12 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>
Nominal current	32 A
Maximum load current	36 A (with 6 mm <sup>2</sup> conductor cross section, rigid)
Nominal voltage	800 V
Nominal cross section	4 mm <sup>2</sup>

### Connection cross sections directly pluggable

Conductor cross section rigid	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>

### Ex data

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## Rated data (ATEX/IECEX)

Identification	⊕ II 2 G Ex eb IIC Gb
Operating temperature range	-60 °C ... 110 °C
Ex-certified accessories	3208977 D-PT 4-TWIN
	3030789 ATP-ST-TWIN
	1204517 SZF 1-0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-6 / 3030336
	Plug-in bridge / FBS 3-6 / 3030242
	Plug-in bridge / FBS 4-6 / 3030255
	Plug-in bridge / FBS 5-6 / 3030349
	Plug-in bridge / FBS 10-6 / 3030271
	Plug-in bridge / FBS 20-6 / 3030365
Bridge data	25 A / 4 mm <sup>2</sup>
Ex temperature increase	40 K (26 A / 4 mm <sup>2</sup> )
Rated voltage	550 V
for bridging with bridge	550 V
- At bridging between non-adjacent terminal blocks	352 V
- At bridging between non-adjacent terminal blocks via PE terminal block	352 V
- At cut-to-length bridging	220 V
- At cut-to-length bridging with cover	275 V
- At cut-to-length bridging with partition plate	550 V
Rated insulation voltage	500 V
output	(Permanent)

## Ex level General

Rated current	26 A (4 mm <sup>2</sup> )
Maximum load current	30 A (6 mm <sup>2</sup> )
Contact resistance	0.64 mΩ

## Ex connection data General

Nominal cross section	4 mm <sup>2</sup>
Rated cross section AWG	12
Connection capacity rigid	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Connection capacity AWG	24 ... 10
Connection capacity flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Connection capacity AWG	24 ... 12

## Dimensions

Width	6.2 mm
End cover width	2.2 mm
Height	66.5 mm
Depth on NS 35/7,5	36.5 mm

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Depth on NS 35/15	44 mm
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## Material specifications

Color	orange (RAL 2003)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

## Mechanical properties

### Mechanical data

Open side panel	Yes
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## 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, 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 60947-7-1
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## Mounting

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

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## Drawings

Circuit diagram



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## Approvals


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 <b>CSA</b> Approval ID: 2030668				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Use group B	600 V	30 A	24 - 10	-
Use group C	600 V	30 A	24 - 10	-

 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Use group B	600 V	30 A	24 - 10	-
Use group C	600 V	30 A	24 - 10	-

 <b>LR</b> Approval ID: LR2371832TA				
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 <b>NK</b> Approval ID: 22ME0007				
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 <b>BV</b> Approval ID: 39980/B0 BV				
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 <b>PRS</b> Approval ID: TE/2107/880590/21				
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<b>ABS</b> Approval ID: 21-2192245-PDA				
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<b>DNV</b> Approval ID: TAE000010T				
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 <b>cUL Recognized</b> Approval ID: E192998				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	550 V	30 A	24 - 10	-


 <b>IECEx</b> Approval ID: IECExPTB10.0046U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Only flexible conductors	550 V	26 A	-	0.2 - 4
Only rigid conductors	550 V	30 A	-	0.2 - 6

 <b>UL Recognized</b> Approval ID: E192998				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
	550 V	30 A	24 - 10	-

 <b>ATEX</b> Approval ID: PTB09ATEX1112U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
Only flexible conductors	550 V	26 A	-	0.2 - 4
Only rigid conductors	550 V	30 A	-	0.2 - 6

 <b>CCC</b> Approval ID: 2020322313000631				
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 <b>UKCA-EX</b> Approval ID: CSAE 22UKEX1100U				
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 <b>EAC Ex</b> Approval ID: KZ 7500525010101950				
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<b>cULus Recognized</b>				
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## Classifications

### ECLASS

ECLASS-11.0	27141120
ECLASS-13.0	27250101

### ETIM

ETIM 9.0	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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