

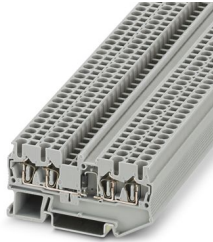
# ST 2,5-QUATTRO-DIO 1N 5408K/R-L - Component terminal block



3002214

<https://www.phoenixcontact.com/us/products/3002214>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Component terminal block, with integrated diode 1N 5408K, nominal current: 1.5 A, connection method: Spring-cage connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- 5.2 mm or 6.2 mm design width

## Commercial data

Item number	3002214
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	BE2172
GTIN	4055626210414
Weight per piece (including packing)	9.64 g
Weight per piece (excluding packing)	9.54 g
Country of origin	PL

# ST 2,5-QUATTRO-DIO 1N 5408K/R-L - Component terminal block



3002214

<https://www.phoenixcontact.com/us/products/3002214>

## Technical data

### Product properties

Product type	Component terminal block
Number of positions	1
Number of connections	4
Number of rows	1
Potentials	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated insulation voltage	800 V
Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	0.77 W

### Connection data

Number of connections per level	4
Nominal cross section	2.5 mm <sup>2</sup>
Connection method	Spring-cage connection
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Conductor cross-section rigid	0.08 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	28 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	28 ... 14 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup>
Nominal cross section	2.5 mm <sup>2</sup>
Nominal current	1.5 A
Maximum load current	1.5 A (the maximum current is determined by the diode)
Component type	Diode 1N 5408K
Reverse voltage	1000 V

### Dimensions

Width	5.2 mm
End cover width	2.2 mm

# ST 2,5-QUATTRO-DIO 1N 5408K/R-L - Component terminal block



3002214

<https://www.phoenixcontact.com/us/products/3002214>

Height	72 mm
Depth on NS 35/7,5	36.5 mm
Depth on NS 35/15	44 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °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
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

Test voltage setpoint	9.8 kV
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
-----------------	-----

## Mechanical tests

### Attachment on the carrier

DIN rail/fixing support	NS 32/NS 35
Test force setpoint	1 N
Result	Test passed

## Environmental and real-life conditions

### Aging

Temperature cycles	192
--------------------	-----

# ST 2,5-QUATTRO-DIO 1N 5408K/R-L - Component terminal block



3002214

<https://www.phoenixcontact.com/us/products/3002214>

## 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 %

## Mounting

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

# ST 2,5-QUATTRO-DIO 1N 5408K/R-L - Component terminal block

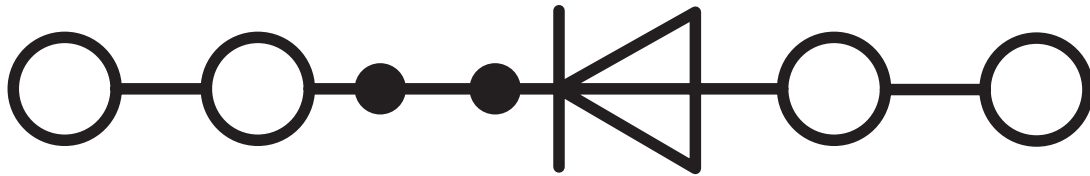


3002214

<https://www.phoenixcontact.com/us/products/3002214>

## Drawings

### Circuit diagram



# ST 2,5-QUATTRO-DIO 1N 5408K/R-L - Component terminal block



3002214

<https://www.phoenixcontact.com/us/products/3002214>

## Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3002214>



**EAC**

Approval ID: RU C-DE.BL08.B.00644

# ST 2,5-QUATTRO-DIO 1N 5408K/R-L - Component terminal block



3002214

<https://www.phoenixcontact.com/us/products/3002214>

## Classifications

### ECLASS

ECLASS-13.0	27250114
ECLASS-15.0	27250114

### ETIM

ETIM 10.0	EC000898
-----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# ST 2,5-QUATTRO-DIO 1N 5408K/R-L - Component terminal block



3002214

<https://www.phoenixcontact.com/us/products/3002214>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	4337bb16-c2d4-4aa7-b043-77aafe0ab4aa

### EF3.1 Climate Change

CO2e kg	0.068 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)