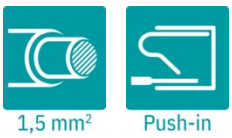
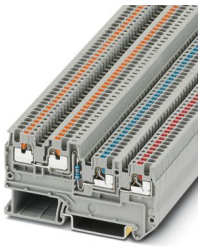
PTIO 1,5/S/3-L-R100K/O-M 120V - Initiator/actuator terminal block

3209034

https://www.phoenixcontact.com/gb/products/3209034

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Initiator/actuator terminal block, with 100 kOhm resistor, number of connections: 4, connection method: Push-in connection, Rated cross section: 1.5 mm^2, cross section: 0.14 mm^2 - 1.5 mm^2, mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- Three-conductor output terminal block of the same shape with PE connection in the lower level for wiring actuators
- Power terminal blocks can be located at any point on the terminal strip for supply or extension purposes
- Versions with LED for indicating the switching states
- Easy bridging and potential distribution using the patented plug-in bridges from the CLIPLINE complete system
- Potential supply is via the PTIO-IN feed-in terminal blocks
- For space and time-saving wiring of three-conductor initiators and actuators
- The upper level is for signal wiring, whereas the two lower levels are used to distribute the positive and negative potential

Commercial data

Item number	3209034
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE2217
Product key	BE2217
GTIN	4055626176017
Weight per piece (including packing)	7.326 g
Weight per piece (excluding packing)	7.326 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Notes

General

Note	Current and voltage are determined by the resistance and the light indicator.

Product properties

Product type	Sensor/actuator terminal block
Number of connections	4
Number of rows	2
Potentials	3

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated insulation voltage	250 V
Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	0.4 W

Connection data

Number of connections per level	2
Nominal cross section	1.5 mm²
Connection method	Push-in connection
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1 / B1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.14 mm² ... 1.5 mm²
Cross section AWG	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm² ... 1.5 mm²
Conductor cross-section, flexible [AWG]	26 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² ... 1.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm² ... 1 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm²
Nominal cross section	1.5 mm²
Component type	Resistance TK 50 M
Resistance value	100 Ω
Tolerance	1
Electric strength	250 V
Maximum power dissipation	0.4 W

Connection cross sections directly pluggable

Conductor cross-section rigid	0.25 mm² ... 1.5 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² ... 1.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.34 mm² ... 1 mm²

Dimensions

Width	3.5 mm
End cover width	2.2 mm
Height	74.4 mm
Depth on NS 35/7,5	41.5 mm
Depth on NS 35/15	49 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	4.8 kV
Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	1.5 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Yes

Mechanical tests

Attachment on the carrier

DIN rail/fixing support	NS 35
Result	Test passed

Environmental and real-life conditions

Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Spectrum	Long life test category 2, bogie-mounted
Frequency	f_1 = 5 Hz to f_2 = 250 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

Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
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

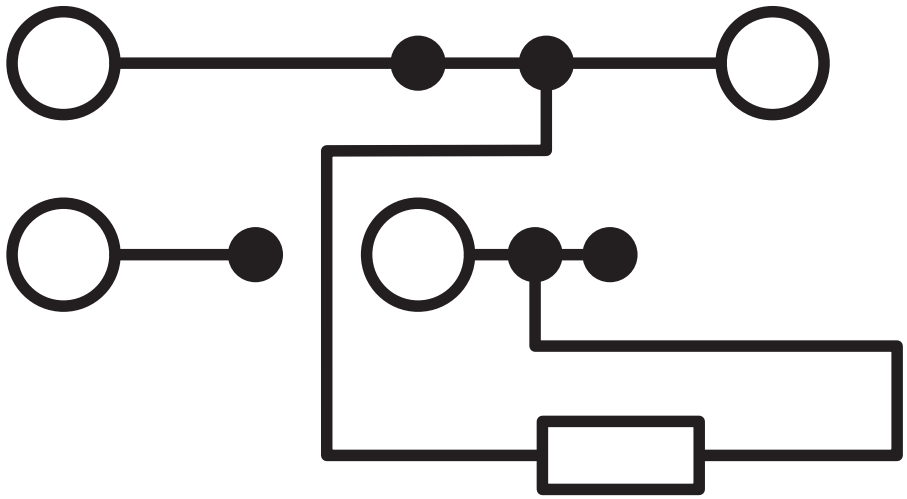
Connection in acc. with standard	IEC 60947-7-1

Mounting

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

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/3209034

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

EAC
Approval ID: KZ7500651131219505

Classifications

ECLASS

ECLASS-13.0	27250112
ECLASS-15.0	27250112

ETIM

ETIM 10.0	EC000900

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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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