

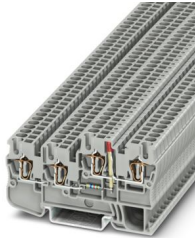
# STIO 2,5/3-2B/L-LA24RD/O-M - Initiator/actuator terminal block



3209028

<https://www.phoenixcontact.com/us/products/3209028>

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.



Initiator/actuator terminal block, nom. voltage: 24 V, nominal current: 18 A, number of connections: 4, 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 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
- For space and time-saving wiring of three-conductor initiators and actuators
- Potential is supplied via the STIO-IN power terminal blocks
- 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	3209028
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2117
Catalog page	Page 214 (C-1-2019)
GTIN	4046356143530
Weight per piece (including packing)	10.01 g
Weight per piece (excluding packing)	10.01 g
Customs tariff number	85369010
Country of origin	TR

# STIO 2,5/3-2B/L-LA24RD/O-M - Initiator/actuator terminal block



3209028

<https://www.phoenixcontact.com/us/products/3209028>

## Technical data

### Product properties

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

### Data management status

Article revision	01
------------------	----

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	4 kV
Maximum power dissipation for nominal condition	0.77 W

### Connection data

Number of connections per level	2
Nominal cross section	2.5 mm <sup>2</sup>
Stripping length	8 mm ... 10 mm
Connection in acc. with standard	IEC 60947-7-1
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 (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 current	18 A
Maximum load current	18 A (with 4 mm <sup>2</sup> conductor cross section)
Nominal voltage	24 V (Light indicator, red)
Nominal cross section	2.5 mm <sup>2</sup>

### Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	75 mm
Depth on NS 35/7,5	44.5 mm
Depth on NS 35/15	52 mm

# STIO 2,5/3-2B/L-LA24RD/O-M - Initiator/actuator terminal block



3209028

<https://www.phoenixcontact.com/us/products/3209028>

## 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
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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)	28 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

## Mechanical properties

### Mechanical data

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

## 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, no longer than 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
Thread type	()

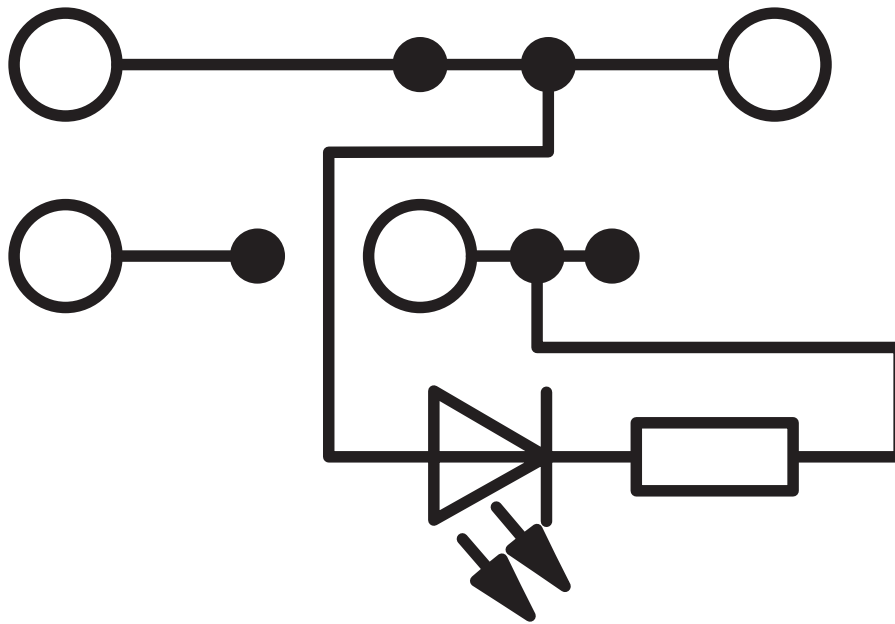
# STIO 2,5/3-2B/L-LA24RD/O-M - Initiator/actuator terminal block

3209028

<https://www.phoenixcontact.com/us/products/3209028>

## Drawings

Circuit diagram



# STIO 2,5/3-2B/L-LA24RD/O-M - Initiator/actuator terminal block



3209028

<https://www.phoenixcontact.com/us/products/3209028>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3209028>



**EAC**

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



**cULus Recognized**

Approval ID: E60425

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	300 V	10 A	28 - 12	-
Use group C	150 V	18 A	28 - 12	-
Use group D	300 V	10 A	28 - 12	-

# STIO 2,5/3-2B/L-LA24RD/O-M - Initiator/actuator terminal block



3209028

<https://www.phoenixcontact.com/us/products/3209028>

## Classifications

### ECLASS

ECLASS-11.0	27141128
ECLASS-12.0	27141128
ECLASS-13.0	27250112

### ETIM

ETIM 9.0	EC000900
----------	----------

### UNSPSC

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

# STIO 2,5/3-2B/L-LA24RD/O-M - Initiator/actuator terminal block



3209028

<https://www.phoenixcontact.com/us/products/3209028>

## 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%
-------------------------------------	----------------------------

Phoenix Contact 2024 © - 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)