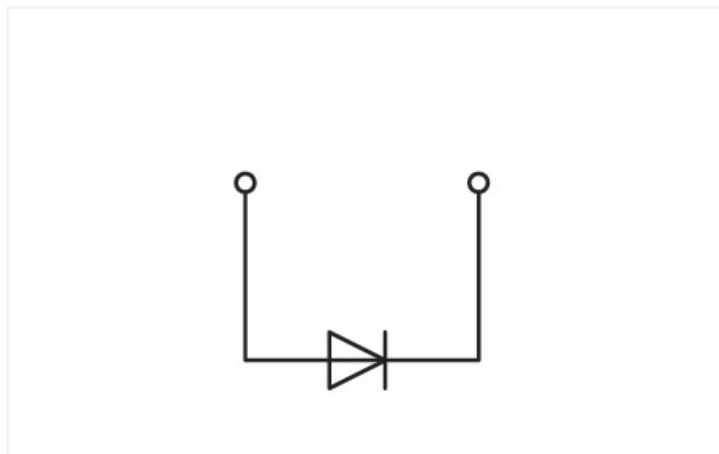
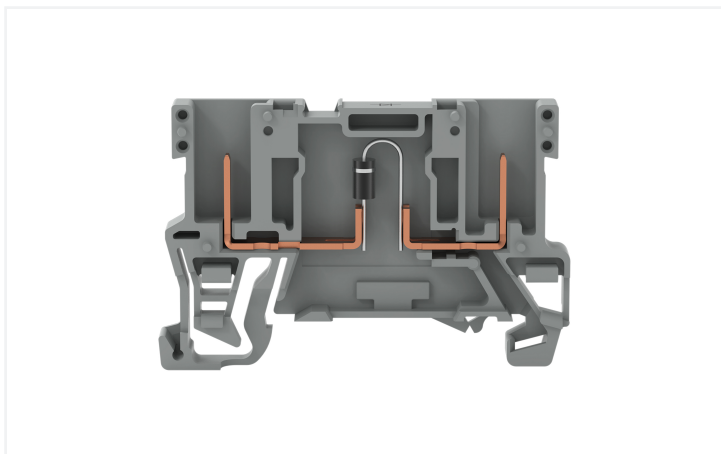


# Data Sheet | Item Number: 769-228/281-410

2-pin component carrier block; with diode 1N4007; anode, left side; for DIN-rail 35 x 15 and 35 x 7.5; 4 mm<sup>2</sup>; gray

<https://www.wago.com/769-228/281-410>



Color: ■ gray

Component terminal block with diode, 769 Series, gray

This component terminal block with diode (item number 769-228/281-410) is designed for quick and simple connections. Diode terminal blocks are a type of rail-mount terminal block with electronic components integrated into their housing. These terminal blocks are specifically designed for custom diode circuits, such as light test and collective fault sensor circuits.

## Notes

### Safety Information

A separator plate (Item No. 209-191) or a 10 mm end stop (Item No. 249-117) must be placed at the end of a WAGO X-COM®-SYSTEM terminal strip.

### Safety information 2

Staggered jumpers cannot be installed in terminal blocks when using 2-conductor female plugs.

### Note

2-conductor female plugs cannot be used.

## Electrical data

### Ratings per IEC/EN

Rated current 0.5 A

### General information

Nominal voltage 250 V  
Reverse voltage 1000 V  
Number/type of diode/LED with 1N4007 diode  
Wiring direction Front-entry wiring

## Connection Data

Total number of potentials 1  
Number of levels 1

### Connection 1

Wiring direction Front-entry wiring

### Physical data

Width	5 mm / 0.197 inches
Height	52.5 mm / 2.067 inches
Depth from upper-edge of DIN-rail	28.5 mm / 1.122 inches

### Mechanical data

Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Center marking

### Material data

Note (material data)	<a href="#">Information on material specifications can be found here</a>
Color	gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.112 MJ
Weight	4.7 g

### Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

### Commercial data

Product Group	18 (X-COM-System)
PU (SPU)	100 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454619428
Customs tariff number	85369010000

### Product Classification

UNSPSC	39121410
eCl@ss 10.0	27-14-11-27
eCl@ss 9.0	27-14-11-27
ETIM 9.0	EC000903
ETIM 10.0	EC000903
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

CAS-No.	7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a)
SCIP notification number (Austria)	2220823b-4765-4082-ab33-c5f0ec5ec72c
SCIP notification number (Belgium)	644968ce-9fde-460b-bdaf-51c2b625e5b9
SCIP notification number (Bulgaria)	451eb5e6-404c-4d74-9d0a-2a6225d5508c
SCIP notification number (Czech Republic)	1853e5c7-8aed-4a1e-8022-7d63c97cdd63
SCIP notification number (Denmark)	f2276964-292d-40c9-836a-1dd44b6aca76
SCIP notification number (Finland)	b33feeff-9367-40db-8262-9f60bc1b8a93

**Environmental Product Compliance**

SCIP notification number (France)	0890893b-55d6-4384-b527-2acabd258b6f
SCIP notification number (Germany)	fdc9a473-f823-49e1-9cf3-a8f6e8a4bdef
SCIP notification number (Hungary)	5a43261b-31f8-4dde-8296-f6113435fa61
SCIP notification number (Italy)	c89b1add-2b8e-49c0-9c63-76c24001f68e
SCIP notification number (Netherlands)	ce0288ec-116c-4409-b507-6e5b3b111387
SCIP notification number (Poland)	7a7bf2bc-11f7-43cd-ac60-30542d507a75
SCIP notification number (Romania)	ef3f894a-1c84-4ddc-8d2b-bd7d00e7d766
SCIP notification number (Sweden)	63880c7b-0afc-4855-b7d3-1fb446d86060

**Approvals / Certificates**

**General approvals** **Declarations of conformity and manufacturer's declarations**



Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL-7626
CSA CSA Group	C22.2	1101144
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2190419.01



Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Z00004428.000
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

**Approvals for marine applications**



Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	EN 60947	24-0152298-PDA
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
PRS Polski Rejestr Statków	-	TE/1094/880590/23

**Downloads**

**Environmental Product Compliance**

<b>Compliance Search</b>
Environmental Product Compliance 769-228/281-410

**Documentation**

Bid Text			
769-228/281-410	19.02.2019	xml 2.89 KB	
769-228/281-410	02.10.2017	doc 23.00 KB	

**CAD/CAE-Data**

CAD data	
2D/3D Models 769-228/281-410	

CAE data	
EPLAN Data Portal 769-228/281-410	
WSCAD Universe 769-228/281-410	
ZUKEN Portal 769-228/281-410	

**1 Compatible Products**

**1.1 System counterpart**

**1.1.1 Female connector/socket**

 <b>Item No.: 769-101/022-000</b> 1-conductor female connector, angled; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray	 <b>Item No.: 769-110/145-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 10-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-111/145-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 11-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-112/145-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 12-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray
 <b>Item No.: 769-113/145-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 13-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-114/145-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 14-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-115/145-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 15-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-101</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray
 <b>Item No.: 769-101/141-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-102/142-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 2-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-103/142-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 3-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-104/143-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 4-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray
 <b>Item No.: 769-105/143-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 5-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-106/144-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 6-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-107/144-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 7-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-108/144-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 8-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray
 <b>Item No.: 769-109/144-000</b> 1-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 9-pole; coding finger; Centered locking levers; Strain relief plate; 4,00 mm²; gray	 <b>Item No.: 769-121</b> 2-conductor female connector; CAGE CLAMP®; 4 mm²; Pin spacing 5 mm; 1-pole; coding finger; 4,00 mm²; gray		

## 1.2 Required Accessories

### 1.2.1 End plate

#### 1.2.1.1 End plate



**Item No.: 769-305**

End and intermediate plate; 1.1 mm thick; gray

**Item No.: 769-306**

End and intermediate plate; 1.1 mm thick; orange

## 1.3 Optional Accessories

### 1.3.1 Coding

#### 1.3.1.1 Coding



**Item No.: 769-435**

Coding pin; for coding of female plugs; for carrier terminal blocks / male connectors; orange

### 1.3.2 Cover

#### 1.3.2.1 Cover



**Item No.: 769-438**

Pin cover; with marker slot for miniature WSB; gray

**Item No.: 769-439**

Pin cover; with marker slot for miniature WSB; orange

### 1.3.3 DIN-rail

#### 1.3.3.1 Mounting accessories



**Item No.: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



**Item No.: 210-198**

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored



**Item No.: 210-508**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715; silver-colored



**Item No.: 210-197**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored



**Item No.: 210-506**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715; silver-colored



**Item No.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored



**Item No.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



**Item No.: 210-115**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored



**Item No.: 210-112**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored



**Item No.: 210-504**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715; silver-colored



**Item No.: 210-113**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored



**Item No.: 210-505**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715; silver-colored

### 1.3.4 Installation

#### 1.3.4.1 Mounting accessories



**Item No.: 209-106**

Mounting carrier; for isolated mounting on DIN 35 rails; gray



**Item No.: 249-116**

Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

### 1.3.5 Marking

#### 1.3.5.1 Marker



**Item No.: 2009-145**

Mini-WSB InLine; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 248-501**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white

### 1.3.6 Tool

#### 1.3.6.1 Operating tool

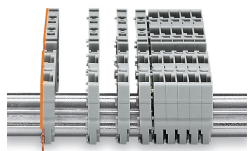


**Item No.: 210-720**

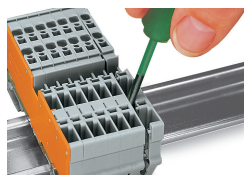
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

## Installation Notes

### Installation

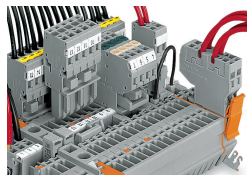


Snap individual carrier terminal blocks on to the DIN-rail and slide together.

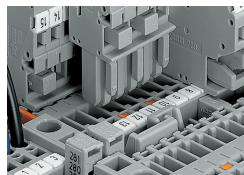


Open the assembly by laterally sliding a block via operating tool and remove terminal block via release lever.

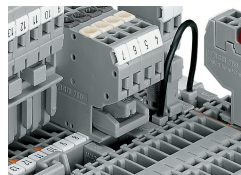
### Commoning



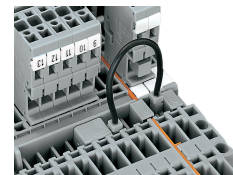
Commoning with adjacent or staggered jumpers. Push jumpers down until fully inserted.



Commoning carrier terminal blocks via staggered jumpers.

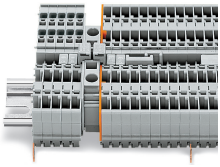


Commoning a 2-conductor female plug via staggered jumper and carrier terminal blocks via adjacent jumpers.



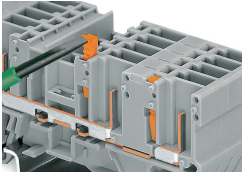
Commoning carrier terminal blocks via push-in type wire jumpers or adjacent jumpers – even over an intermediate plate.

## Commoning



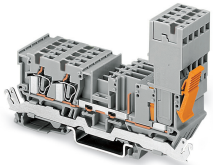
Commoning "supply terminal blocks" (up to 10 mm<sup>2</sup>/8 AWG) with carrier terminal blocks via step-down jumpers.

## Coding

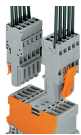


Snap coding pin in proper direction on carrier terminal block.  
Shown: Coding pin removal from carrier terminal block.

## Locking system



Securing a female plug via locking lever on the terminal block side.



2-pin diode carrier block  
1-conductor female plug, straight\*  
\*1-conductor angled female plug is also possible!