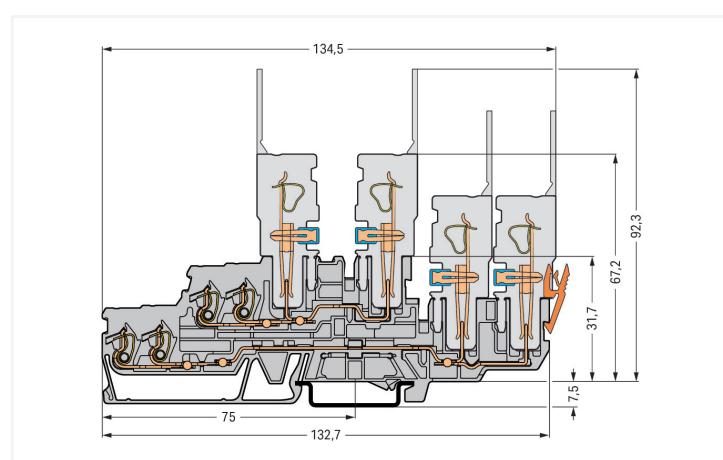


Color: ■ gray



Carrier terminal block

## Double-deck terminal block, 870 Series, operating tool

This double-deck terminal block (item number 870-131) simplifies electrical installations. Pluggable rail-mount terminal blocks are hugely popular in switchgear and control systems, for example, in railroad technology. They combine the best of rail-mount terminal blocks and connectors for the perfect solution. Variable wiring systems make pre-assembly easy, which saves both time and money in production, installation, operation, and maintenance. The double-deck terminal block also functions as a through terminal block. Our pluggable rail-mount terminal block is rated for 500 V and is designed to handle a rated current of up to 16 A. Strip lengths must be between 6 mm and 7 mm when connecting conductors to this double-deck terminal block. This product features conductor terminals and utilizes CAGE CLAMP®. Our celebrated universal connection known as CAGE CLAMP® is industry-leading when it comes to connection technology and electrical interconnections. This double-deck terminal block is suitable for conductor cross sections ranging from 0.08 mm<sup>2</sup> to 2.5 mm<sup>2</sup>. It features two levels and four clamping points for connecting two potentials. The gray housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this pluggable rail-mount terminal block. These pluggable rail-mount terminal blocks are mounted using DIN-35 rails. Conductors made of copper can be connected via front-entry wiring.

## Notes

Safety Information

Max. insulation diameter: 4.4 mm

Safety information 2

2-conductor female plugs cannot be used.

**Electrical data****Ratings per IEC/EN**

Nominal voltage (III/3)	500 V
Rated impulse withstand voltage (III / 3)	6 kV
Rated current	16 A
Legend (ratings)	(III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3

**Power Loss**

Power loss, per pole (potential)	0.3405 W
Rated current $I_N$ for specified power loss	16 A
Resistance value for specified, current-dependent power loss	0.00133 $\Omega$

**Connection data**

Clamping units	4
Total number of potentials	2
Number of levels	2

**Connection 1**

Connection technology	CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 14 AWG
Strip length	6 ... 7 mm / 0.24 ... 0.28 inches
Wiring direction	Front-entry wiring

**Physical data**

Width	5 mm / 0.197 inches
Height	132.7 mm / 5.224 inches
Depth from upper-edge of DIN-rail	37.1 mm / 1.461 inches

**Mechanical data**

Potential marking	L/L
Design	horizontal type
Mounting type	DIN-35 rail
Marking level	Side 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	0.287 MJ
Weight	19 g

**Environmental requirements**

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

**Commercial data**

Product Group	16 (Rail Mounted Terminal Blocks with CCC)
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 9.0	EC000897
ETIM 8.0	EC000897
PU (SPU)	40 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454600211
Customs tariff number	85366990990

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
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**Approvals / Certificates****General approvals**

Approval	Standard	Certificate Name
CCA DEKRA Certification B.V.	EN 60947	NTR NL 7468
CCA DEKRA Certification B.V.	EN 60947	2189801.01
cURus UL International Germany GmbH	UL 1059	E45172

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

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

**Approvals for marine applications**

Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	20-HG1941090-PDA

## Downloads

## Environmental Product Compliance

## Compliance Search

Environmental Product  
Compliance 870-131

## Documentation

## Additional Information

Technical Section

pdf  
2246.92 KB

## Bid Text

870-131

19.02.2019

xml  
3.48 KB

870-131

04.10.2017

doc  
25.00 KB

## CAD/CAE-Data

## CAD data

2D/3D Models 870-131



## CAE data

EPLAN Data Portal  
870-131WSCAD Universe  
870-131

ZUKEN Portal 870-131



## 1 Compatible Products

## 1.1 System counterpart

## 1.1.1 Female connector/socket

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

## 1.2 Required Accessories

### 1.2.1 End plate

**Item No.: 870-148**

End and intermediate plate; 1 mm thick; gray

**Item No.: 870-149**

End and intermediate plate; 1 mm thick; orange

## 1.3 Optional Accessories

### 1.3.1 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 Ferrule

#### 1.3.4.1 Ferrule

			
<b>Item No.: 216-321</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<b>Item No.: 216-131</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored	<b>Item No.: 216-322</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise	<b>Item No.: 216-132</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / AWG 24; uninsulated; electro-tin plated
			
<b>Item No.: 216-221</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white	<b>Item No.: 216-121</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored	<b>Item No.: 216-222</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray	<b>Item No.: 216-122</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored
			
<b>Item No.: 216-223</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red	<b>Item No.: 216-123</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored	<b>Item No.: 216-224</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black	<b>Item No.: 216-124</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; uninsulated; electro-tin plated

### 1.3.5 Installation

#### 1.3.5.1 Mounting accessories

	
<b>Item No.: 209-106</b> Mounting carrier; for isolated mounting on DIN 35 rails; gray	<b>Item No.: 249-116</b> Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

### 1.3.6 Insulation stop

#### 1.3.6.1 Insulation stop

		
<b>Item No.: 280-470</b> Insulation stop; 0.08 - 0.2 mm <sup>2</sup> "s" (0.14 mm <sup>2</sup> "f-st"); 5 pieces/strip; white	<b>Item No.: 280-471</b> Insulation stop; 0.25 - 0.5 mm <sup>2</sup> ; 5 pieces/strip; light gray	<b>Item No.: 280-472</b> Insulation stop; 0.75 - 1 mm <sup>2</sup> ; 5 pieces/strip; black

### 1.3.7 Jumper

#### 1.3.7.1 Jumper

			
<b>Item No.: 870-405/011-000</b> Jumper; 10-way; insulated; light gray	<b>Item No.: 870-407/011-000</b> Jumper; 2-way; insulated; light gray	<b>Item No.: 870-409/011-000</b> Jumper; 3-way; insulated; light gray	<b>Item No.: 870-406/020-000</b> Delta jumper; insulated; light gray
			
<b>Item No.: 870-410</b> Jumper; 10-way; insulated; light gray	<b>Item No.: 870-402</b> Jumper; 2-way; insulated; light gray	<b>Item No.: 870-403</b> Jumper; 3-way; insulated; light gray	<b>Item No.: 870-404</b> Jumper; 4-way; insulated; light gray
			
<b>Item No.: 870-405</b> Jumper; 5-way; insulated; light gray	<b>Item No.: 870-406</b> Jumper; 6-way; insulated; light gray	<b>Item No.: 870-407</b> Jumper; 7-way; insulated; light gray	<b>Item No.: 870-408</b> Jumper; 8-way; insulated; light gray
			
<b>Item No.: 870-409</b> Jumper; 9-way; insulated; light gray	<b>Item No.: 870-440</b> Jumper; from 1 to 10; insulated; light gray	<b>Item No.: 870-433</b> Jumper; from 1 to 3; insulated; light gray	<b>Item No.: 870-434</b> Jumper; from 1 to 4; insulated; light gray

## 1.3.7.1 Jumper

[Item No.: 870-435](#)

Jumper; from 1 to 5; insulated; light gray

## 1.3.8 Marking

## 1.3.8.1 Group marker carrier

[Item No.: 870-182](#)

Adaptor; gray

[Item No.: 870-183](#)

Adaptor; gray

[Item No.: 870-184](#)

Adaptor; gray

## 1.3.8.2 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

[Item No.: 793-5501](#)

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

[Item No.: 793-501](#)

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

[Item No.: 2009-115](#)

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

## 1.3.8.3 Marker carrier

[Item No.: 2009-198](#)

Adaptor; gray

## 1.3.9 Protective warning marker

## 1.3.9.1 Cover

[Item No.: 280-405](#)

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

## 1.3.10 Test and measurement

## 1.3.10.1 Testing accessories

[Item No.: 870-427](#)

Spacer module; modular; bridging common terminal blocks; gray

[Item No.: 870-426](#)

Tap-off module; modular; suitable for 870 Series terminal blocks with jumper slots in the current bar; gray

[Item No.: 870-425](#)

Tap-off module; with anti-rotation protection; modular; suitable for 870 Series terminal blocks with jumper slots in the current bar; gray

### 1.3.11 Tool

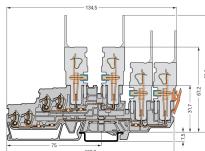
### 1.3.11.1 Operating tool



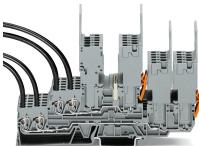
Item No.: 210-720

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

## Installation Notes



## Carrier terminal block



1-connector female plug, straight  
Double-deck carrier terminal blocks can  
be commoned via 870 Series Push-In Ty-  
pe Jumper Bars.

**Notice: Female plugs must be arranged in the opposite direction on the upper deck.**

2-conductor female plugs and angled 1-conductor female plugs cannot be used.