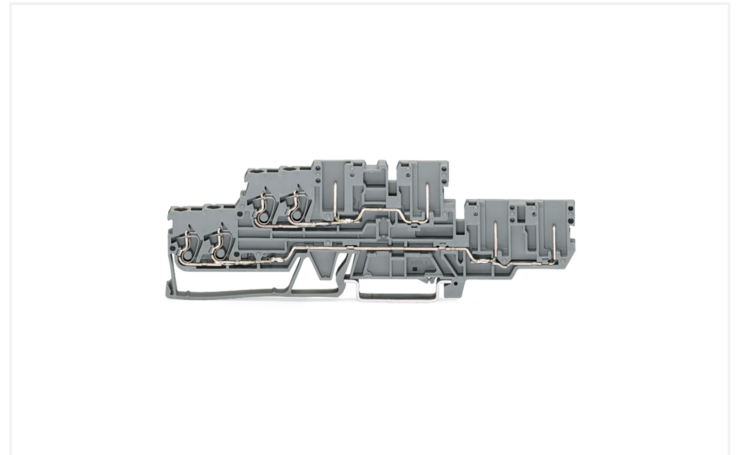
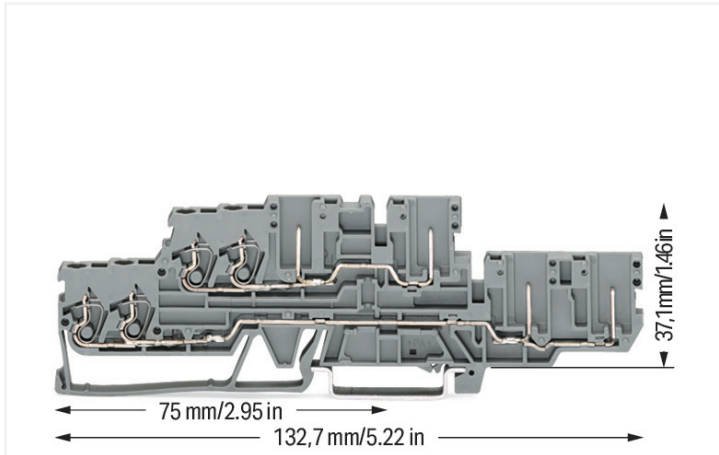


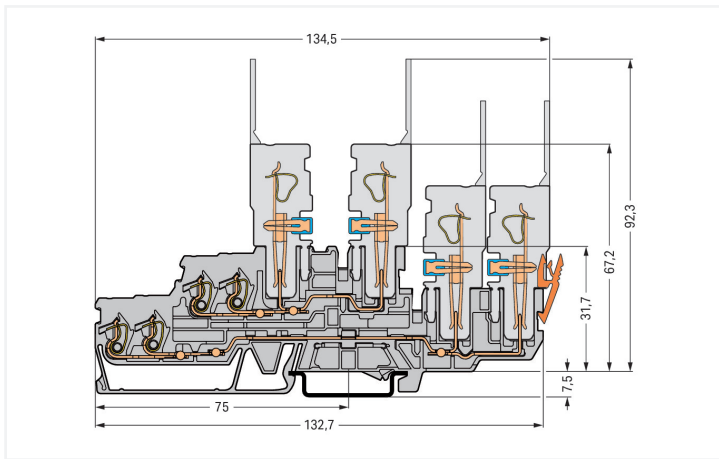
## Data Sheet | Item Number: 870-131

2-conductor/2-pin, double-deck carrier terminal block; Through/through terminal block; 2.5 mm<sup>2</sup>; L/L; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP®; 2,50 mm<sup>2</sup>; gray

<https://www.wago.com/870-131>



Color: ■ gray



Carrier terminal block

### Double-deck terminal block, 870 Series, gray

This double-deck terminal block (item number 870-131) simplifies electrical installations. Strip lengths must be between 6 and 7 mm when connecting conductors to this double-deck terminal block. Pluggable rail-mount terminal blocks are primarily found in switchgear units and control systems, most notably in railroad technology. These innovative systems combine the properties of rail-mount terminal blocks and connectors for a flexible and reliable wiring system. You also have the option of pre-assembling installations, which not only makes production but also installation, operation, and maintenance more efficient and cost-effective. The double-deck terminal block also functions as a through terminal block. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection provides a safe and maintenance-free way to connect all types of conductors. You do not need to prepare the conductor in any way, such as crimping ferrules. Depending on the conductor type, this double-deck terminal block is designed for conductor cross sections ranging from 0.08 mm<sup>2</sup> to 2.5 mm<sup>2</sup>.

An operating tool is used to operate this pluggable rail-mount terminal block.

## 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 power loss specification	16 A
Resistance value for specified, current-dependent power loss	0.00133 $\Omega$

## General information

Wiring direction	Front-entry wiring
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## 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)
PU (SPU)	40 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454600211
Customs tariff number	85366990990

### Product Classification

UNSPSC	39121410
eCl@ss 10.0	27-14-11-20
eCl@ss 9.0	27-14-11-20
ETIM 9.0	EC000897
ETIM 10.0	EC000897
ECCN	NO US CLASSIFICATION

### 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
cULus UL International Germany GmbH	UL 1059	E45172

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



Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Railway WAGO GmbH & Co. KG	-	Z00004430.000
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

### Approvals for marine applications



Approval	Standard	Certificate Name
ABS American Bureau of Shipping	-	24-0152298-PDA
DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE00001V2
PRS Polski Rejestr Statków	-	TE/1094/880590/23

<b>Downloads</b>			
<b>Environmental Product Compliance</b>			
<b>Compliance Search</b>			
Environmental Product Compliance 870-131			↓
<b>Documentation</b>			
<b>Bid Text</b>			
870-131	19.02.2019	xml 3.48 KB	↓
870-131	04.10.2017	doc 25.00 KB	↓
<b>CAD/CAE-Data</b>			
<b>CAD data</b>		<b>CAE data</b>	
2D/3D Models 870-131		EPLAN Data Portal 870-131	
↓		↓	
		WSCAD Universe 870-131	
		↓	
		ZUKEN Portal 870-131	
		↓	
<b>1 Compatible Products</b>			
<b>1.1 System counterpart</b>			
<b>1.1.1 Female connector/socket</b>			
<p><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</p>	<p><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</p>	<p><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</p>	<p><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</p>
<p><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</p>	<p><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</p>	<p><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</p>	<p><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</p>
<p><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</p>	<p><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</p>	<p><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</p>	<p><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</p>
<p><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</p>	<p><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</p>	<p><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</p>	<p><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</p>

## 1.2 Required Accessories

### 1.2.1 End plate

#### 1.2.1.1 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

#### 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 Ferrule

#### 1.3.4.1 Ferrule



**Item No.: 216-321**  
 Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



**Item No.: 216-131**  
 Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-322**  
 Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



**Item No.: 216-132**  
 Ferrule; Sleeve for 0.34 mm<sup>2</sup> / AWG 24; uninsulated; electro-tin plated



**Item No.: 216-221**  
 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white



**Item No.: 216-121**  
 Ferrule; Sleeve for 0.5 mm<sup>2</sup> / AWG 22; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-222**  
 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray



**Item No.: 216-122**  
 Ferrule; Sleeve for 0.75 mm<sup>2</sup> / AWG 20; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-223**  
 Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red



**Item No.: 216-123**  
 Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; uninsulated; electro-tin plated; silver-colored



**Item No.: 216-224**  
 Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black



**Item No.: 216-124**  
 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



**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

### 1.3.6 Insulation stop

#### 1.3.6.1 Insulation stop



**Item No.: 280-470**  
 Insulation stop; 0.08 - 0.2 mm<sup>2</sup> "s" (0.14 mm<sup>2</sup> "f-st"); 5 pieces/strip; white



**Item No.: 280-471**  
 Insulation stop; 0.25 - 0.5 mm<sup>2</sup>; 5 pieces/strip; light gray



**Item No.: 280-472**  
 Insulation stop; 0.75 - 1 mm<sup>2</sup>; 5 pieces/strip; black

### 1.3.7 Jumper

#### 1.3.7.1 Jumper



**Item No.: 870-407/011-000**



**Item No.: 870-409/011-000**



**Item No.: 870-406/020-000**  
 Delta jumper; insulated; light gray



**Item No.: 870-410**  
 Jumper; 10-way; insulated; light gray



**Item No.: 870-402**  
 Jumper; 2-way; insulated; light gray



**Item No.: 870-403**  
 Jumper; 3-way; insulated; light gray



**Item No.: 870-404**  
 Jumper; 4-way; insulated; light gray



**Item No.: 870-405**  
 Jumper; 5-way; insulated; light gray



**Item No.: 870-406**  
 Jumper; 6-way; insulated; light gray



**Item No.: 870-407**  
 Jumper; 7-way; insulated; light gray



**Item No.: 870-408**  
 Jumper; 8-way; insulated; light gray



**Item No.: 870-409**  
 Jumper; 9-way; insulated; light gray



**Item No.: 870-440**  
 Jumper; from 1 to 10; insulated; light gray



**Item No.: 870-433**  
 Jumper; from 1 to 3; insulated; light gray



**Item No.: 870-434**  
 Jumper; from 1 to 4; insulated; light gray



**Item No.: 870-435**  
 Jumper; from 1 to 5; insulated; light gray

### 1.3.7.1 Jumper



**Item No.:** [870-405/011-000](#)

Jumper; 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 commoned 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

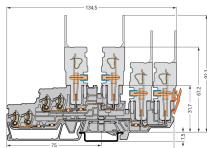
### 1.3.11 Tool

#### 1.3.11.1 Operating tool

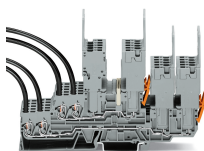
**Item No.: 210-720**

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

### Installation Notes



Carrier terminal block

**1-conductor female plug, straight**

Double-deck carrier terminal blocks can be commoned via 870 Series Push-In Type 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.**