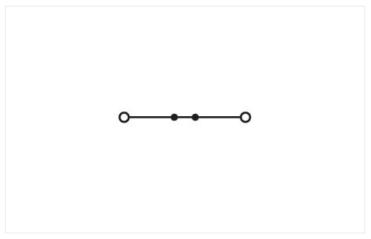
2-conductor through terminal block; 2.5 mm²; side and center marking; for DIN-rail 35 x 15 and 35 x 7.5; CAGE CLAMP[®]; 2,50 mm²; orange



https://www.wago.com/870-902





Color: ■ orange

Similar to illustration

Similar to illustration

Through terminal block, 870 Series, operating tool

This through terminal block (item number 870-902) streamlines wire connections, making them both quick and easy. Whether for use in industry or building installations, our rail-mount through terminal blocks allow you to quickly and securely connect electrical conductors. They're perfect for either classic through-wiring or distributing potential, depending on the variant. Rated current and voltage are important parameters when selecting a mini rail-mount terminal block, as they determine the product's suitability for different applications. This product has a rated voltage of 500 V and a rated current of 24 A. Conductors can only be connected to this through terminal block if their strip length is between 6 mm and 7 mm. This product incorporates conductor terminals and utilizes CAGE CLAMP®. Our proven universal connection known as CAGE CLAMP® is the industry standard when it comes to connection technology and electrical interconnections. Depending on the type of conductor, this through terminal block is designed for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It has one level. The single potential can connect using the two clamping points The orange housing is made of polyamide (PA66) for insulation. An operating tool is used to operate this mini rail-mount terminal block. These mini rail-mount terminal blocks are mounted using DIN-35 rails.. The front-entry wiring makes it possible to connect copper conductors.

Notes	
Safety Information	Max. insulation diameter: 4.4 mm

Electrical data					
Ratings per	IEC/E	EN 60947-	7-1	Power Loss	
Overvoltage category	III	III	II	Power loss, per pole (potential)	0.7661 W
Pollution degree	3	2	2	Rated current I_N for specified power loss	24 A
Nominal voltage	500 V	-	-	Resistance value for specified, current-	0.00133 Ω
Rated surge voltage	6 kV	-	=	dependent power loss	
Rated current	24 A	-	-		

tion data			
oing units	2	Connection 1	
number of potentials	1	Connection technology	CAGE CLAMP®
ber of levels	1	Actuation type	Operating tool
		Connectable conductor materials	Copper
		Solid conductor	$0.08\dots2.5\text{mm}^2$ / $28\dots12\text{AWG}$
		Fine-stranded conductor	0.08 4 mm² / 28 12 AWG
	Fine-stranded conductor; with insulated ferrule	0.08 1.5 mm² / 28 14 AWG	
		Strip length	6 7 mm / 0.24 0.28 inches
		Wiring direction	Front-entry wiring

https://www.wago.com/870-902



Physical data

Width 5 mm / 0.197 inches Height 44.5 mm / 1.752 inches 27.5 mm / 1.083 inches Depth from upper-edge of DIN-rail

Mechanical data

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

Material data

Note (material data)

Information on material specifications can be found here

Color orange Material group

Insulation material (main housing) Polyamide (PA66)

Flammability class per UL94 Fire load 0.08 MJ Weight 4.3 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) 100 pcs Box Packaging type Country of origin DE GTIN 4044918478328 Customs tariff number 85369010000

V0

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

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 Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Data Sheet | Item Number: 870-902 https://www.wago.com/870-902



Approvals for marine applications









VERITAS	- PLANT TOWNS	
Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	20-HG1941090-PDA
BV Bureau Veritas S.A.	EN 60947	07436/F0 BV
DNV GL Det Norske Veritas, Ger- manischer Lloyd	-	TAE00001V2
LR Lloyds Register	EN 60947	91/20112 (E9)

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 870-902	$\overline{\downarrow}$

Documentation						
Additional Information			Bid Text			
Technical Section	pdf 2246.92 KB	<u>↓</u>	870-902	19.02.2019	xml 3.27 KB	$\underline{\downarrow}$
			870-902	31.05.2017	doc 24.50 KB	$\overline{\downarrow}$

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 870-902	EPLAN Data Portal 870-902
	WSCAD Universe 870-902
	ZUKEN Portal 870-902



1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate



<u>Item No.: 870-923</u> <u>Item No.: 870-9</u>

End and intermediate plate; 2 mm thick; grav



Item No.: 870-924

End and intermediate plate; 2 mm thick; orange

1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 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



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

1.2.2 End plate

1.2.2.1 End plate





Item No.: 870-928

Separator plate; 2 mm thick; oversized; gray

Item No.: 870-929

Separator plate; 2 mm thick; oversized; orange

1.2.3 Ferrule

1.2.3.1 Ferrule



Item No.: 216-321

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow

Item No.: 216-131

Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored

Item No.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

<u>Item No.: 216-132</u>

Ferrule; Sleeve for 0.34 mm² / AWG 24; uninsulated; electro-tin plated



Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

Item No.: 216-121

Ferrule; Sleeve for 0.5 mm² / AWG 22; uninsulated; electro-tin plated; silver-colored

Item No.: 216-222

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray

Item No.: 216-122

Ferrule; Sleeve for 0.75 mm² / AWG 20; uninsulated; electro-tin plated; silver-colored

https://www.wago.com/870-902



1.2.3.1 Ferrule

Item No.: 216-223

lated; electro-tin plated; red

Ferrule; Sleeve for 1 mm² / AWG 18; insu-

Item No.: 216-123

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; silver-colored

Item No.: 216-224

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item No.: 216-124

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated

1.2.4 Installation

Item No.: 209-106

DIN 35 rails; gray

1.2.4.1 Mounting accessories



Mounting carrier; for isolated mounting on

Item No.: 249-117 Screwless end stop; 10 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

Item No.: 249-116

Screwless end stop; 6 mm wide; for DINrail 35 x 15 and 35 x 7.5; gray

1.2.5 Insulation stop

1.2.5.1 Insulation stop



Insulation stop; 0.08 - 0.2 mm² "s" (0.14

mm² "f-st"); 5 pieces/strip; white

00000 Item No.: 280-471

Insulation stop; 0.25 - 0.5 mm²; 5 pieces/ strip; light gray



Item No.: 280-472 Insulation stop; 0.75 - 1 mm²; 5 pieces/ strip: black

1.2.6 Jumper

1.2.6.1 Jumper

Item No.: 280-470







Item No.: 870-406/020-000

Delta jumper; insulated; light gray



Jumper; 10-way; insulated; light gray

Item No.: 870-405/011-000



Item No.: 870-407/011-000

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.: 870-409/011-000



Item No.: 870-405

Item No.: 870-410

Jumper; 5-way; insulated; light gray

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

Turney

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

Item No.: 870-434



Jumper; from 1 to 3; insulated; light gray

Item No.: 870-438

Jumper; from 1 to 4; insulated; light gray

Item No.: 870-435

Jumper; from 1 to 5; insulated; light gray

Item No.: 870-436

Jumper; from 1 to 6; insulated; light gray

Item No.: 870-437 Jumper; from 1 to 7; insulated; light gray

Item No.: 870-439

Jumper; from 1 to 9; insulated; light gray

Jumper; from 1 to 8; insulated; light gray



1.2.7 Marking

1.2.7.1 Group marker carrier

Item No.: 870-182 Adaptor; gray

Item No.: 870-183

Adaptor; gray

Item No.: 870-184 Adaptor; gray

1.2.7.2 Marker

Item No.: 2009-145/000-006

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

Item No.: 2009-145/000-007

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

Item No.: 2009-145/000-023

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

Item No.: 2009-145/000-012

Item No.: 2009-145/000-002

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

Item No.: 2009-145/000-005

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



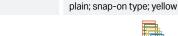
Item No.: 2009-145/000-024

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



Item No.: 2009-145

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



Mini-WSB Inline; for Smart Printer; 1700

pieces on roll; stretchable 5 - 5.2 mm;

Item No.: 248-501/000-006

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



Item No.: 248-501/000-007

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



Item No.: 248-501/000-023

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



Item No.: 248-501/000-017

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



Item No.: 248-501/000-012

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



Item No.: 248-501/000-005

Item No.: 793-5501/000-006

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



Item No.: 248-501/000-024

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



Item No.: 248-501

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



Item No.: 248-501/000-002

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



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



Item No.: 793-5501/000-007

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



Item No.: 793-5501/000-023

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



Item No.: 793-5501/000-017

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

Item No.: 793-5501/000-012

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



Item No.: 793-5501/000-005

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



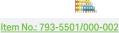
Item No.: 793-5501/000-024

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



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



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



Item No.: 793-501/000-006

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



Item No.: 793-501/000-007

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



Item No.: 793-501/000-023

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



Item No.: 793-501/000-017

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



Item No.: 793-501/000-012

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





Item No.: 793-501/000-005

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



Item No.: 793-501/000-024

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



WMB marking card; as card; not stretcha-

Item No.: 793-501/000-002

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





Item No.: 2009-115/000-007

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

Item No.: 2009-115/000-023

ble; plain; snap-on type; white

Item No.: 793-501

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

Item No.: 2009-115/000-017

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

Item No.: 2009-115/000-006 WMB-Inline; for Smart Printer; 1500 pie-

ces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue



Item No.: 2009-115/000-012

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

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WMB-Inline; for Smart Printer; 1500 pie-

ces on roll; stretchable 5 - 5.2 mm; plain;



1.2.7.2 Marker

*

Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 2009-115/000-002

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

1.2.7.3 Marking strip

snap-on type; violet

Item No.: 709-196

Marking strips; for laser printer; translucent

Item No.: 709-177

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; translucent

Item No.: 709-178

Marking strips; on reel; 7.5 mm wide; not stretchable; plain; snap-on type; white

1.2.8 Protective warning marker

1.2.8.1 Cover



Item No.: 280-405

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

1.2.9 Test and measurement

1.2.9.1 Testing accessories

moned terminal blocks; gray



Spacer module; modular; bridging com-

Itom No : 970-426

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

1.2.10 Tool

Item No.: 870-427

1.2.10.1 Operating tool

Item No.: 210-658

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

Item No.: 210-720

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

Item No.: 210-657

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

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Installation Notes

Installation



Snapping a rail-mount terminal block onto DIN-35 rail.



Removing a terminal block from the assembly.

Conductor termination



CAGE CLAMP® connectionInserting a conductor via operating tool

(0.08 ... 4 mm² "f-st"). With ferruled conductors, it is necessary

With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-section



Inserting insulation stops into conductor entry holes of terminal strip.

Commoning



Push jumper bars down firmly until fully inserted. When using multipole bars, push alternately on the right and then left side until installed.

Push-in type jumper bars 1-3-5-7 or 1-4-7

upon request



Commoning with push-in type jumper bars:

Two parallel jumper slots are accommodated in one terminal block.

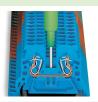


Commoning terminal blocks of different sizes via step-down jumpers.

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W/AGO

Testing



Testing with phase testing device, also possible with single-pole voltage tester.



Testing is also possible using a pre-wired tap-off module assembly in the very same way as test plugs.

Cover



Protective warning markers (280-405), with a black high-voltage symbol

Marking



WMB markers in Mini-WSB marker slots Translucent marking strip Mini-WSB markers



Translucent marking strip (709-196) – jumpers below may be visible.



In addition to the plastic marker strips, group marker carriers are now available for the WMB and WSB marking systems. They can be mounted in parallel to a push-in type jumper bar via the open jumper contact slot. It is also very useful if the marker slots on the side of the terminal block are hidden. The carriers are available in the following widths: 5 mm (0.197 inch), 10 mm (0.394 inch) and 15 mm (0.591 inch).

Notice:

Group marker carriers are not suitable for ground conductor terminal blocks and double potential terminal blocks as they have no jumper contact slots.

Subject to changes. Please also observe the further product documentation!