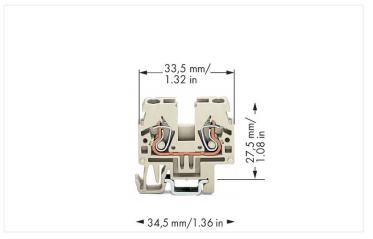
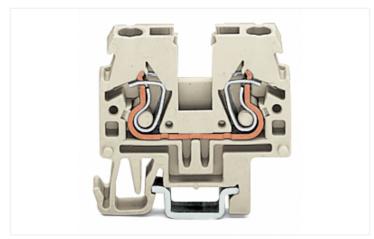
2-conductor through terminal block; 2.5 mm²; suitable for Ex e II applications; side and center marking; for DIN-15 rail; CAGE CLAMP[®]; 2,50 mm²; light gray



https://www.wago.com/870-919





Color: ■ light gray



Similar to illustration

Through terminal block, 870 Series, light gray

This through terminal block (item number 870-919) is designed to connect conductors quickly and easily. Whether in industrial or building applications, our rail-mount through terminal blocks are the perfect solution to quickly and securely connect electrical conductors. Depending on the version, you can use them for either typical through-wiring or potential distribution. Conductors should only be connected to this through terminal block if their strip length is between 6 mm and 7 mm. This product features conductor terminals and utilizes CAGE CLAMP®. Our CAGE CLAMP® connection provides a convenient 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. This through terminal block is suitable for conductor cross sections ranging from 0.08 mm² to 2.5 mm². It has one level. You can connect a single potential using the two clamping points. The light gray 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-15 rails.. Conductors made of copper can be connected via front-entry wiring.

Notes	
Safety Information	Max. insulation diameter: 4.4 mm

Electrical data					
Ratings per	IEC/	EN 60947-	7-1	Ex information	
Overvoltage category	III	III	II	Reference hazardous areas	See application instructions in section
Pollution degree	3	2	2	nal Information: Technical Se	"Knowledge and Downloads – Documentation – Additio-
Nominal voltage	-	-	-		nal Information: Technical Section; Tech-
Rated surge voltage	-	-	-		nical Explications"
Rated current	-	-	-	Rated voltage EN (Ex e II)	440 V

Data Sheet | Item Number: 870-919 https://www.wago.com/870-919



Power Loss	
Power loss, per pole (potential)	0.6437 W
Rated current I_N for specified power loss	22 A
Resistance value for specified, current- dependent power loss	0.00133 Ω

onnection data			
Clamping units	2	Connection 1	
Total number of potentials	1	Connection technology	CAGE CLAMP®
Number of levels	1	Actuation type	Operating tool
		Connectable conductor materials	Copper
		Solid conductor	0.08 2.5 mm² / 28 12 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

Physical data	
Width	5 mm / 0.197 inches
Height	34.5 mm / 1.358 inches
Depth from upper-edge of DIN-rail	26.5 mm / 1.043 inches

Mechanical data		
Design	horizontal type	
Mounting type	DIN-15 rail	
Marking level	Side marking	

Material data	
Note (material data)	Information on material specifications can be found here
Color	light gray
Material group	I
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.069 MJ
Weight	3.9 g

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

https://www.wago.com/870-919



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
Packaging type	Вох
Country of origin	DE
GTIN	4044918852395
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

Declarations of conformity and manufacturer's declarations

c **FL**°us

 GmbH

Approval Standard **Certificate Name** cURus UL 1059 E45172 **UL International Germany**

Certificate Name Approval Standard ATEX-Attestation of Conformity WAGO GmbH & Co. KG

Approvals for hazardous areas







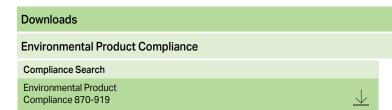


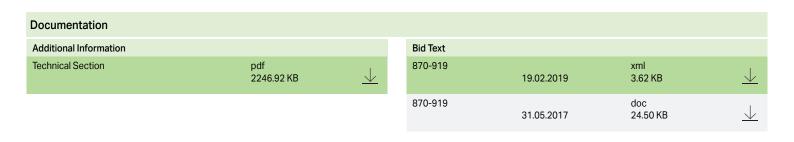


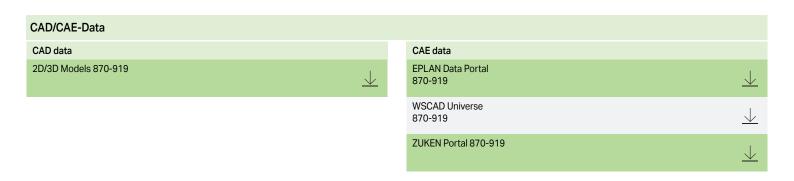
Approval	Standard	Certificate Name
AEx UL International Germany GmbH c/o Physikalisch Technische Bundesanstalt	UL 60079	E185892 (AEx eb II C resp. Ex eb II C)
ATEX Physikalisch Technische Bundesanstalt (PTB)	EN 60079	PTB 03 ATEX 1188 U (II 2 G Ex eb IIC Gb bzw. I M 2 Ex eb I Mb)
CCC CNEX	GB/T 3836.3	2020312313000179 (Ex eb IIC Gb, Ex eb I Mb)
IECEx Physikalisch Technische Bundesanstalt	IEC 60079	IECEx PTB 04.0018 U (Ex eb IIC Gb resp. Ex eb I Mb)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV 12.1312 U

https://www.wago.com/870-919











1.2 Optional Accessories

1.2.1 DIN-rail

1.2.1.1 Mounting accessories





Item No.: 210-111

Steel carrier rail; 15 x 5.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; silver-colored

Item No.: 210-295 Steel carrier rail; 15 x 5.5 mm; 1 mm thick;

2 m long; unslotted; according to EN 60715; silver-colored



1.2.2 Ferrule

1.2.2.1 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-coItem No.: 216-322

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

Item No.: 216-132

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

Item No.: 216-221

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

Item No.: 216-223

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

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

1.2.3 Installation

1.2.3.1 Mounting accessories



Item No.: 209-106

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

Item No.: 249-101

Item No.: 280-471

Screwless end stop; 6 mm wide; for WMB markers; gray

1.2.4 Insulation stop

1.2.4.1 Insulation stop



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

mm2 "f-st"); 5 pieces/strip; white



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

1.2.5 Jumper

1.2.5.1 Jumper

Item No.: 280-470







Item No.: 870-405/011-000

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

Jumper; 5-way; insulated; light gray

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

Item No.: 870-405

Item No.: 870-409

Jumper; 9-way; insulated; light gray

Jumper; 6-way; insulated; light gray

Item No.: 870-408

Jumper; 8-way; insulated; light gray

Item No.: 870-440

Item No.: 870-406

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

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1.2.5.1 Jumper

Junny

Jumper; from 1 to 7; 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

Item No.: 870-438

Jumper; from 1 to 8; insulated; light gray

Item No.: 870-439

Jumper; from 1 to 9; insulated; light gray

1.2.6 Marking

1.2.6.1 Group marker carrier

Item No.: 870-182 Item No.: 870-183

Adaptor; gray

Item No.: 870-184

Adaptor; gray

1.2.6.2 Marker

Adaptor; gray

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

Mini-WSB Inline; for Smart Printer; 1700

pieces on roll; stretchable 5 - 5.2 mm;

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

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



plain; snap-on type; violet

Item No.: 2009-145/000-024

Item No.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray 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.: 2009-145/000-002

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



Item No.: 248-501/000-006

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



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.: 248-501/000-024

Mini-WSB marking card; as card; not

Item No.: 248-501

chable; plain; snap-on type; white

Item No.: 248-501/000-002

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

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



stretchable; plain; snap-on type; violet

Mini-WSB marking card; as card; not stret-

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

5.2 mm; plain; snap-on type; blue

WMB marking card; as card; for terminal

block width 5 - 17.5 mm; stretchable 5 -

Item No.: 793-5501/000-012

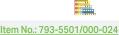
Item No.: 793-5501/000-006

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



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.: 793-501/000-017

Item No.: 793-5501/000-002

WMB marking card; as card; not stretcha-

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

ble; 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

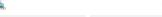
WMB marking card; as card; not stretchable; plain; snap-on type; red

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1.2.6.2 Marker











Item No.: 793-501/000-024 WMB marking card; as card; not stretchable; plain; snap-on type; violet

Item No.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 793-501/000-002 WMB marking card; as card; not stretchable; plain; snap-on type; yellow

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





WMB-Inline; for Smart Printer; 1500 pie-

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

Item No.: 2009-115/000-023

snap-on type; blue

Item No.: 2009-115/000-007



Item No.: 2009-115/000-017

Item No.: 2009-115/000-012 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; light green



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



WMB-Inline; for Smart Printer; 1500 pie-

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

Item No.: 2009-115/000-024

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

Item No.: 2009-115

snap-on type; green

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

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

1.2.6.3 Marking strip



Marking strips; for laser printer; translu-

Item No.: 709-177

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

Item No.: 709-178

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

1.2.7 Protective warning marker

1.2.7.1 Cover



Item No.: 280-405

Item No.: 870-427

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

1.2.8 Test and measurement

1.2.8.1 Testing accessories

moned terminal blocks; gray



Spacer module; modular; bridging com-

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

https://www.wago.com/870-919



1.2.9 Tool

1.2.9.1 Operating tool



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

Installation Notes

Installation



Mounting on DIN-15 rail:

Snap individual terminal blocks onto the DIN-15 rail and slide together.

Removal from DIN-15 rail:

Open assembly by laterally sliding terminal blocks with an operating tool and remove them from the rail.

Conductor termination



CAGE CLAMP® connection

Inserting a conductor via operating tool (0.08 ... 4 mm² "f-st").

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.

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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.

Ex application



In order to meet creepage and clearance requirements for Ex e applications, it is necessary to insert an end or intermediate plate between a through and a ground conductor terminal block.
End plates 870-923 (gray), 870-924 (orange) and 870-925 (light gray), as well as separator plates 870-928 (gray) and 870-929 (orange) cannot be assembled to 2-conductor ground Ex terminal blocks (870-907/999-950).

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.



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