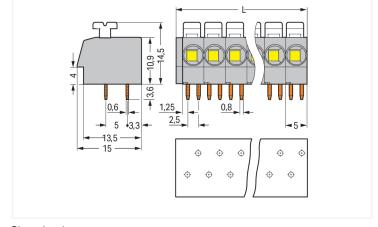
PCB terminal block; push-button; 2.5 mm²; Pin spacing 5 mm; 2-pole; Push-in CAGE

CLAMP®; 2,50 mm²; gray

https://www.wago.com/804-102



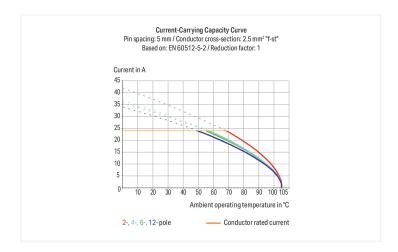




Color: ■ gray

Similar to illustration

Dimensions in mm L = (pole no. x pin spacing) + 1.5 mm



PCB terminal block, 804 Series, gray

Our PCB terminal block (item number 804-102) simplifies electrical installations. It is a universal connector that can be used practically anywhere, for example, as a pluggable PCB connector, panel feedthrough header, connector for rail-mount terminal blocks, or a floating connector for different mounting methods. Rated current and voltage are important parameters when choosing a PCB terminal block, as they determine the product's suitability for different applications. This product has a rated voltage of 320 V and a rated current of 24 A, making it suitable for high-load applications. Conductors can only be connected to this PCB terminal block if their strip length is between 10 mm and 11 mm. Featuring one conductor terminal along with Push-in CAGE CLAMP®, this connector is highly versatile. Push-in CAGE CLAMP® technology provides a universal connection solution for any type of conductor. It allows both solid and fine-stranded conductors with ferrules to be inserted directly into the clamping point without the need for tools. The item's dimensions are 11.5 x 18.1 x 15 mm (width x height x depth). Depending on the type of conductor, this PCB terminal block is suitable for conductor cross sections ranging from 0.25 mm² to 2.5 mm². Up to two potentials / two poles can be connected to this terminal strip using two clamping points on one level. The gray housing is made of polyamide (PA66) for insulation, the clamping spring is made of chrome-nickel spring steel (CrNi), and the contacts are made of electrolytic copper (ECu). Tin is used for coating the contact surfaces. This PCB terminal block is operated with a push-button. The PCB terminal block is designed for THT soldering. The conductor is designed to be inserted into the board at a 0° angle. The solder pins measure 0.8 x 0.6 mm in length and are laid out over the entire terminal strip (staggered). There are two solder pins per potential.

https://www.wago.com/804-102



Notes

Variants:

Other pole numbers

Other colors
Mixed-color PCB connector strips
10 mm pin spacing version with spacers
Direct marking

Versions for Ex i

Other versions (or variants) can be requested from WAGO Sales or configured at https://

configurator.wago.com/.

Electrical data			
Ratings per	IE	C/EN 60664	-1
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	250 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Rated current	24 A	24 A	24 A

3 C	D D
) V -	300 V
Α -	10 A
	^

Approvals per		CSA	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	10 A	-	10 A

Connection data		
Clamping units	2	
Total number of potentials	2	
Number of connection types	1	
Number of levels	1	

Connection 1	
Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-button
Solid conductor	0.25 2.5 mm² / 20 12 AWG
Fine-stranded conductor	0.25 2.5 mm² / 22 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 1.5 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 2.5 mm²
Strip length	10 11 mm / 0.39 0.43 inches
Conductor connection direction to PCB	0°
Pole number	2

Physical data		
Pin spacing	5 mm / 0.197 inches	
Width	11.5 mm / 0.453 inches	
Height	18.1 mm / 0.713 inches	
Height from the surface	14.5 mm / 0.571 inches	
Depth	15 mm / 0.591 inches	
Solder pin length	3.6 mm	
Solder pin dimensions	0.8 x 0.6 mm	
Drilled hole diameter with tolerance	1.1 ^(+0.1) mm	

Data Sheet | Item Number: 804-102 https://www.wago.com/804-102

Approvals / Certificates

UL International Germany

GmbH

UL 1977

E45171



PCB contact	
PCB contact	ТНТ
Solder pin arrangement	over the entire terminal strip (staggered)
Number of solder pins per potential	2

Material data	
Note (material data)	
	Information on material specifications can be found here
Color	gray
Material group	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	VO
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact Plating	Tin
Fire load	0.052 MJ
Weight	2.2 g

Environmental requirements	
Limit temperature range	-60 +105 °C

Commercial data	
Product Group	4 (Printed Circuit Connectors)
eCl@ss 10.0	27-44-04-01
eCl@ss 9.0	27-44-04-01
ETIM 9.0	EC002643
ETIM 8.0	EC002643
PU (SPU)	420 (105) pcs
Packaging type	Вох
Country of origin	СН
GTIN	4044918514934
Customs tariff number	85369010000

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

General approvals			General approvals		
CCA KEWA	#15 FL .5	N us	UL UL International Germany GmbH	UL 1059	E45172
Approval	Standard	Certificate Name			
CCA DEKRA Certification B.V.	EN 60947-7-4	NTR NL 7781			
CCA DEKRA Certification B.V.	EN 60947-7-4	71-110710			
ENEC 15 UL International Germany GmbH	EN 60998	ENEC-00096			

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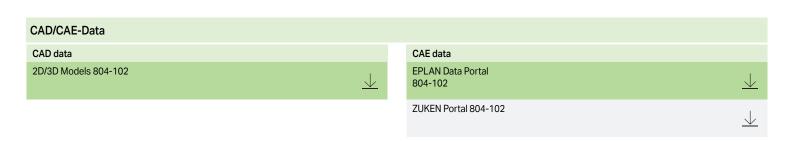


Declarations of conformity and manufacturer's declarations

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

	Downloads				
Environmental Product Compliance					
	Compliance Search				
	Environmental Product Compliance 804-102	\perp			

Documentation			
Additional Information			
Technical Section	03.04.2019	pdf 2027.26 KB	<u>↓</u>



PCB Design	
Symbol and Footprint via SamacSys 804-102	<u>↓</u>
Symbol and Footprint via Ultra Librarian 804-102	<u>↓</u>

https://www.wago.com/804-102



1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

Item No.: 216-241

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228. Part 4/09.90: white

Item No.: 216-141

Ferrule; Sleeve for 0.5 mm² / 20 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

Item No.: 216-242

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-262

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

Item No.: 216-142

Ferrule; Sleeve for 0.75 mm² / 18 AWG; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

Item No.: 216-243

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-263

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item No.: 216-143

Ferrule; Sleeve for 1 mm² / AWG 18; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92

Item No.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-264

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-284

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item No.: 216-144

Ferrule; Sleeve for 1.5 mm² / AWG 16; uninsulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 1/08.92; silver-colored

Item No.: 216-106

Ferrule; Sleeve for 2.5 mm² / AWG 14; uninsulated; electro-tin plated; silver-colored

1.1.2 Marking

1.1.2.1 Marking strip

Item No.: 210-332/500-202

Marking strips; as a DIN A4 sheet; MAR-KED; 1-16 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-332/500-205

Marking strips; as a DIN A4 sheet; MAR-KED; 1-32 (80x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-332/500-204

Marking strips; as a DIN A4 sheet; MAR-KED; 17-32 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

Item No.: 210-332/500-206

Marking strips; as a DIN A4 sheet; MAR-KED; 33-48 (160x); Height of marker strip: 3 mm; Strip length 182 mm; Horizontal marking; Self-adhesive; white

1.1.3 Tool

1.1.3.1 Operating tool

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; multicolou-

https://www.wago.com/804-102



Installation Notes

Conductor termination



Terminating solid conductors: Simply push in stripped conductor until it hits the backstop.



Inserting/removing fine-stranded conductors:

Open the clamping unit via push-button and insert a stripped conductor until it hits the backstop.

Application



WAGO's 804 Series Terminal Strips provide "internal commoning" to meet requirements than ban routing the ground conductor over the board. This enables custom terminal strips to be commoned and marked at the factory upon request.



Installation



Mixed-color terminal strips are available upon request.

Installation



Terminal strips with spacer are available upon request.

Marking



Labeling via self-adhesive marking strips or factory direct marking.

https://www.wago.com/804-102



Testing



Testing via 1 mm Ø test pin. Touch contact with current bar.

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