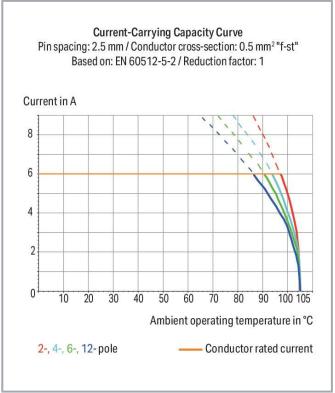
PCB terminal block; push-button; 0.5 mm²; Pin spacing 2.54 mm; 12-pole;

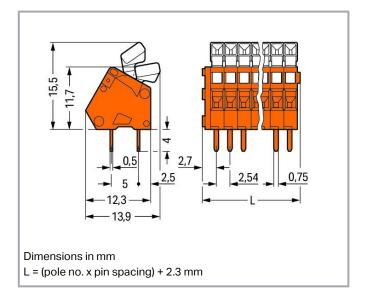
CAGE CLAMP®; 0,50 mm²; orange

www.wago.com/233-512









 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Item description

- PCB terminal strips with push-buttons and CAGE CLAMP connection
- Double solder pins for high mechanical stability on PCB
- Ideal for in-the-field wiring thanks to simplified push-button actuation
- Convenient, tool-free operation

Data Notes

Variants: Other pole numbers
Other colors

Mixed-color PCB connector strips

Dina at manufaire a

Direct marking

Other versions (or variants) can be requested from WAGO Sales or

configured at https://configurator.wago.com/.

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	63 V
Rated impulse voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated impulse voltage (III/2)	2.5 kV
Nominal voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
Rated current	6 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	150 V
Rated current UL (Use Group B)	4 A

Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	150 V

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Rated current CSA (Use Group B) 4 A

Connection data

Connection points	12
Total number of potentials	12
Number of connection types	1
Number of levels	1

Connection 1

CAGE CLAMP®
Push-button
0.08 0.5 mm² / 28 20 AWG
0.08 0.5 mm² / 28 20 AWG
0.25 mm²
0.25 mm²
Terminating 0.75 mm ² /18 AWG conductors is possible; however insulation diameter allows only every other clamping unit to be terminated with this conductor size.
5 6 mm / 0.2 0.24 inches
30 °
12

Physical data

Pin spacing	2.54 mm / 0.1 inches
Width	32.78 mm / 1.291 inches
Height	19.5 mm / 0.768 inches
Height from the surface	15.5 mm / 0.61 inches
Depth	13.9 mm / 0.547 inches
Solder pin length	4 mm
Solder pin dimensions	0.5 x 0.75 mm
Drilled hole diameter with tolerance	1.1 ^(+0.1) mm

PCB contact

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

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Material data

Note (material data)

Information on material specifications can be found here

Color	orange
Material group	l
Insulation material	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	0.112 MJ
Weight	4.9 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 8.0	EC002643
ETIM 7.0	EC002643
ECCN	NO DATA
PU (SPU)	140 (35) pcs
Packaging type	Box
Country of origin	СН
GTIN	4045454050443
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

Certificate

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CCI	CCA DEKRA Certification B.V.	EN 60998	NTR NL 6946		
U	4				
	CCA	EN 60998	2153951.01		
KENA	DEKRA Certification B.V.				
CC 1	CCA	EN 60947-7-4	NTR NL		
U	DEKRA Certification B.V.		7786		
	CSA	C22.2	1465035		
(SF	DEKRA Certification B.V.				
	KEMA/KEUR	EN 60947-7-4	71-111040		
KEMA	DEKRA Certification B.V.				
	UL	UL 1059	E45172		
A	UL International Germany GmbH				
Declaration	ns of conformity and manufacturer's declarations				
Logo	Approval	Additional Approval Text	Certificate name		
	EU-Declaration of Conformity	-	-		
$C \in$	WAGO GmbH & Co. KG				
I IV	 UK-Declaration of Conformity 	-	-		
	WAGO GmbH & Co. KG				
Approvals	for marine applications				
Logo	Approval	Additional Approval Text	Certificate name		
	ABS	-	19-		
	American Bureau of Shipping		HG1869876- PDA		
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IEC 60998 Bureau Veritas S.A.

ΒV

11915/D0



DNV DNV GL SE TAE000016Z

Optional accessories

Tool

Operating tool

Item no.: 210-648

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

www.wago.com/210-648



Item no.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719

Marking accessories

Marking strip

Item no.: 210-331/250-207

Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip

length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331 /250-207

Item no.: 210-331/250-202

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip

length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331 /250-202

www.wago.com/210-331



Item no.: 210-331/254-204

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

/254-204



Item no.: 210-331/250-204

Marking strips; as a DIN A4 sheet; MARKED; 17-32 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331

www.wago.com/210-331

/250-204



Item no.: 210-331/254-206

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

/254-206

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

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Item no.: 210-331/250-206

Marking strips; as a DIN A4 sheet; MARKED; 33-48 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip www.wago.com/210-331 length 182 mm; Horizontal marking; Self-adhesive; white

/250-206



Item no.: 210-331/254-202

Marking strips; as a DIN A4 sheet; MARKED; 1-16 (400x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331 /254-202



Item no.: 210-331/254-207

Marking strips; as a DIN A4 sheet; MARKED; 1-48 (100x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

www.wago.com/210-331 /254-207

F	er	rι	ıle	

Ferrule Ferrule		
1	Item no.: 216-131 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated; silver-colored	www.wago.com/216-131
1	Item no.: 216-151 Ferrule; Sleeve for 0.25 mm² / AWG 24; uninsulated; electro-tin plated	www.wago.com/216-151
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-301
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-321

Downloads Documentation

Additional Information

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.1 MB	

CAD/CAE-Data

PCB Design

Symbol and Footprint via Ultra Librarian 233-512

URL Download

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- Accel EDA 14 & 15
- Altair
- Altium 6 to current version

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- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark
- **Eagle Libraries**
- KiCad
- Mentor Graphics
- **BoardStation**
- Mentor Graphics Design Architect
- Mentor Graphics Design
- Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- **TARGET 3001!**
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000
- Zuken eCADSTAR 2020 and 2021 Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Symbol and Footprint via SamacSys 233-512

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- 3D (stp)
- Altium
- **CADSTAR**
- CircuitStudio
- CR-5000
- CR-8000

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

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URL

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Capture

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- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

CAE data

ZUKEN Portal 233-512	URL	Download
EPLAN Data Portal 233-512	URL	Download
CAD data		
2D/3D Models 233-512	URL	Download
ZD/3D Wiodeis 233-312	ONE	
Asset Administration Shell	ONE	

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 233-512

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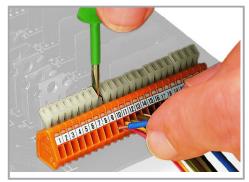


PCB terminal block; push-button; 0.5 mm²; Pin spacing 2.54 mm; 12-pole; CAGE

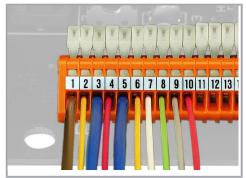
CLAMP®; 0,50 mm²; orange

Installation Notes

Conductor termination



Inserting/removing a conductor.



Nominal cross-section: 0.5 mm² (20 AWG), 0.75 mm² (18 AWG) only in every other position

Marking



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

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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