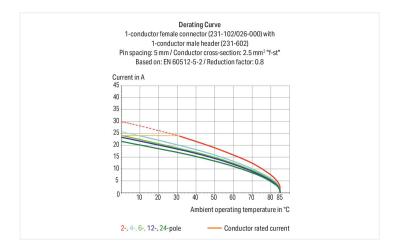
1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; 2,50 mm²; gray

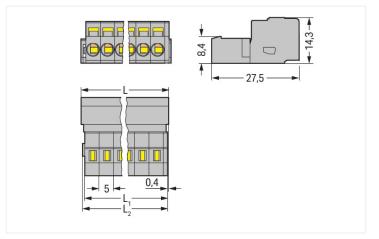












Dimensions in mm

L = (pole no. - 1) x pin spacing + 8.2 mm

L1 = L - 1.7 mm

L2 = L - 1.2 mm

- Universal connection for all conductor types
- Easy cable pre-assembly and on-unit wiring via vertical and horizontal CAGE CLAMP® actuation
- For wire-to-wire and board-to-wire connections
- Versions available with snap-in mounting feet or flanges for panel or through-panel mounting
- With coding fingers

N	o	t	e	s

Safety information

Variants:

The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected/disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Other pole numbers

Gold-plated or partially gold-plated contact surfaces

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	320 V	320 V	630 V
Rated surge voltage	4 kV	4 kV	4 kV
Rated current	12 A	12 A	12 A

Approvals per		UL 1059	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Approvals per	UL 1977
Rated voltage	600 V
Rated current	15 A

Approvals per		CSA	
Use group	В	С	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	10 A

Connection data				
Connection points	5		Connection 1	
Total number of potentials	5		Connection technology	CAGE CLAMP®
Number of connection types	1		Actuation type	Operating tool
Number of levels	1		Actuation direction 1	Operation parallel to conductor entry
	Actuation direction 2	Operation perpendicular to conductor entry		
	Solid conductor	0.08 2.5 mm² / 28 12 AWG		
	Fine-stranded conductor	0.08 2.5 mm² / 28 12 AWG		
		Fine-stranded conductor; with insulated ferrule	0.25 1.5 mm ²	
			Fine-stranded conductor; with uninsulated ferrule	0.25 2.5 mm ²
			Strip length	8 9 mm / 0.31 0.35 inches
		Pole number	5	
			Conductor entry direction to mating direction	0°

Physical data	
Pin spacing	5 mm / 0.197 inches
Width	28.2 mm / 1.11 inches
Height	14.3 mm / 0.563 inches
Depth	27.5 mm / 1.083 inches

Mechanical data	
Variable coding	Yes
Anti-rotation protection	Yes

Plug-in connection		
Contact type (pluggable connector)	Male connector/plug	
Connector (connection type)	for conductor	
Mismating protection	No	

https://www.wago.com/231-605



Material data	
Note (material data)	Information on material specifications can be found here
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Clamping spring material	Chrome-nickel spring steel (CrNi)
Contact material	Electrolytic copper (E _{Cu})
Contact plating	Tin
Fire load	0.205 MJ
Weight	7.8 g

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LIIVII OI II II CI ILA	I requirements

Limit temperature range $-60 \dots +100 \, ^{\circ} \mathrm{C}$ Processing temperature $-35 \dots +60 \, ^{\circ} \mathrm{C}$

Commercial data	
Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-44-03-09
eCl@ss 9.0	27-44-03-09
ETIM 8.0	EC002638
ETIM 7.0	EC002638
PU (SPU)	50 pcs
Packaging type	Вох
Country of origin	DE
GTIN	4044918257169
Customs tariff number	85366930000

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals







Approval	Standard	Certificate Name
CB DEKRA Certification B.V.	IEC 61984	NL-39756/A1
CSA DEKRA Certification B.V.	C22.2	LR 18677-25
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71-121453
UR Underwriters Laboratories Inc.	UL 1977	E45171

Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
Railway WAGO GmbH & Co. KG	-	Railway Ready

https://www.wago.com/231-605



Approvals for marine applications







Approval	Standard	Certificate Name
ABS American Bureau of Ship- ping	-	19-HG1869876-PDA
DNV DNV GL SE	-	TAE000016Z
LR Lloyds Register	IEC 61984	96/20035 (E5)

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 231-605



Documentation

Additional Information

Technical Section

03.04.2019

. 2010.85 KB



CAD/CAE-Data

CAD data

2D/3D Models 231-605



CAE data

EPLAN Data Portal 231-605

ZUKEN Portal 231-605



1 Compatible Products

1.1 System counterpart

Item No.: 232-105/026-000

mm; 5-pole; 2,50 mm²; gray

1.1.1 Female connector/socket



1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5





Item No.: 232-205/026-000

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; 2,50 mm²; gray



Item No.: 731-505/031-000

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; clamping collar; DIN-35 rail/ panel mounting; 2,50 mm²; gray



Item No.: 731-505/008-000

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Snap-in mounting feet; 2,50 mm²; gray



Item No.: 231-105/026-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5pole; 2,50 mm²; gray



Item No.: 231-105/031-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5pole; clamping collar; 2,50 mm²; gray



Item No.: 231-105/037-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5pole; Lateral locking levers; 2,50 mm²;



Item No.: 231-105/124-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5pole; Snap-in flange; 2,50 mm²; gray

https://www.wago.com/231-605

1.1.1 Female connector/socket



Item No.: 231-105/008-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5pole; Snap-in mounting feet; 2,50 mm²; gray



Item No.: 231-105/102-000 1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5pole; with integrated end plate; 2,50 mm²; gray



Item No.: 2231-1105/327-000

1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; 2,50 mm²; gray



Item No.: 2231-1105/038-000

1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Lateral locking levers; 2,50 mm²; gray



1-conductor female connector; push-button: Push-in CAGE CLAMP®: 2.5 mm2: Pin spacing 5 mm; 5-pole; 2,50 mm²; gray



Item No.: 2231-105/031-000

1-conductor female connector; pushbutton: Push-in CAGE CLAMP®: 2.5 mm2: Pin spacing 5 mm; 5-pole; clamping collar; 2,50 mm²; gray



Item No.: 2231-105/037-000

1-conductor female connector; pushbutton; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Lateral locking levers; 2,50 mm2; gray



Item No.: 2231-105/037-000/134-000

1-conductor female connector; push-button: Push-in CAGE CLAMP®: 2.5 mm²: Pin spacing 5 mm; 5-pole; Lateral locking levers; Strain relief plate; 2,50 mm2; gray



Item No.: 2231-105/026-000

Item No.: 2231-105/008-000

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Snap-in mounting feet; 2,50 mm²; gray



Item No.: 2231-105/026-000/134-000 1-conductor female connector; pushbutton; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Strain relief plate; 2,50 mm²; gray



1-conductor female connector; pushbutton; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; with integrated end plate; 2,50 mm2; gray



2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Lateral locking levers; 2,50 mm²; gray



Item No.: 231-2105/026-000

2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; with integrated end plate; 2,50 mm²; gray



Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; angled; Locking lever; Pin spacing 5 mm; 5-pole; gray

Item No.: 232-235/005-000

Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; angled; Pin spacing 5 mm; 5-pole; gray

Item No.: 232-135/005-000/039-000

Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; straight; Locking lever; Pin spacing 5 mm; 5-pole; gray



Item No.: 232-135/005-000

Female connector for rail-mount terminal blocks; 0.6 x 1 mm pins; straight; Pin spacing 5 mm; 5-pole; gray



THT female header; angled; Pin spacing 5 mm; 5-pole; 0.6 x 1.0 mm solder pin; gray

Item No.: 232-235/031-000

THT female header; angled; Pin spacing 5 mm; 5-pole; clamping collar; 0.6 x 1.0 mm solder pin; gray

Item No.: 232-235/039-000

THT female header; angled; Pin spacing 5 mm; 5-pole; Locking lever; 0.6 x 1.0 mm solder pin; gray



Item No.: 232-235/047-000

THT female header; angled; Pin spacing 5 mm; 5-pole; Spacer flange; 0.6 x 1.0 mm solder pin; gray



Item No.: 232-135

THT female header; straight; Pin spacing 5 mm; 5-pole; 0.6 x 1.0 mm solder pin;

Item No.: 232-135/031-000

THT female header; straight; Pin spacing 5 mm; 5-pole; clamping collar; 0.6 x 1.0 mm solder pin; gray

Item No.: 232-135/039-000

THT female header; straight; Pin spacing 5 mm; 5-pole; Locking lever; 0.6 x 1.0 mm solder pin; gray



Item No.: 232-135/047-000

THT female header; straight; Pin spacing 5 mm; 5-pole; Spacer flange; 0.6 x 1.0 mm solder pin; gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



Item No.: 231-129

Coding key; snap-on type; light gray

https://www.wago.com/231-605



1.2.2 Cover

1.2.2.1 Cover



Item No.: 231-668

Lockout caps; for covering unused clamping units; gray



46228, Part 4/09.90; black

46228, Part 4/09.90; black

https://www.wago.com/231-605



1.2.3.1 Ferrule



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.: 216-124

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

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.: 216-104

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

Item No.: 216-106

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

1.2.4 Insulation stop

1.2.4.1 Insulation stop







Item No.: 231-670

Insulation stop; 0.08-0.2 mm² / 0.2 mm² "s"; white

Item No.: 231-671

Insulation stop; 0.25 - 0.5 mm²; light gray

Item No.: 231-672

Insulation stop; 0.75 - 1 mm²; dark gray

1.2.5 Jumper

1.2.5.1 Jumper





Jumper; for conductor entry; 3-way; insu-

Item No.: 231-902

Jumper; for conductor entry; 2-way; insulated; gray

Item No.: 231-903

lated; gray

Item No.: 231-905

Jumper; for conductor entry; 5-way; insulated; gray

1.2.6 Marking

1.2.6.1 Marking strip

Item No.: 210-331/500-103

Marking strips; as a DIN A4 sheet; MAR-KED; 1-12 (300x); Height of marker strip: 2.3 mm/0.091 in; Strip length 182 mm; Horizontal marking; Self-adhesive; white

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.: 210-331/500-104

Marking strips; as a DIN A4 sheet; MAR-KED; 13-24 (300x); Height of marker strip: 2.3 mm/0.091 in; 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



1.2.7 Strain relief

1.2.7.1 Strain relief housing



Item No.: 232-605

Strain relief housing; for female and male connectors; 2 parts; Pin spacing 5 mm; 5-pole; gray

1.2.8 Tool

1.2.8.1 Operating tool



Item No.: 231-231

Combination operating tool; red



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

Item No.: 209-132

Operating tool; for connecting comb-style jumper bar; made of insulating material; 2-way; natural



Item No.: 210-250

Operating tool; for MCS MINI and MIDI with CAGE CLAMP® connection; red

Item No.: 209-130

Operating tool; made of insulating material; 1-way; for 264 Series (1-/2-way), 280, 281 Series (up to 3-way); natural

Item No.: 231-291

Operating tool; made of insulating material; 1-way; loose; red

Item No.: 231-131

Operating tool; made of insulating material; 1-way; loose; white



Item No.: 280-432

Operating tool; made of insulating material; 2-way; white

Item No.: 280-433

Operating tool; made of insulating material; 3-way

Item No.: 280-434

Operating tool; made of insulating material; 4-way

Item No.: 280-435

Operating tool; made of insulating material; 5-way; gray



Operating tool; natural

Installation Notes

Conductor termination



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation parallel to conductor entry.



Inserting a conductor via 3.5 mm screwdriver – CAGE CLAMP® actuation perpendicular to conductor entry.



Inserting a conductor into CAGE CLAMP® unit via operating tool (231-291).



Inserting a conductor via operating tool.

Coding



Coding a male header – fitting coding key (s).

https://www.wago.com/231-605



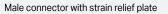
Testing



Testing – female connector with CAGE CLAMP®
Integrated test ports for testing perpendicular to conductor entry via 2 or 2.3 mm Ø test plug

Installation







Strain relief housing shown with a male connector equipped with CAGE CLAMP®

Marking



Labeling via direct marking or self-adhesive strips.

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