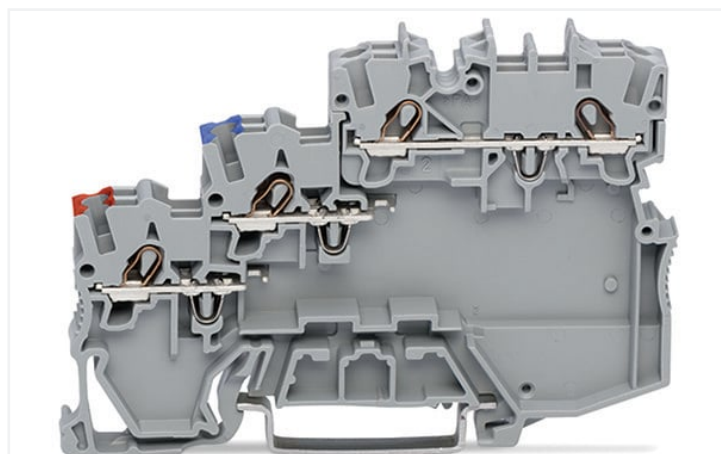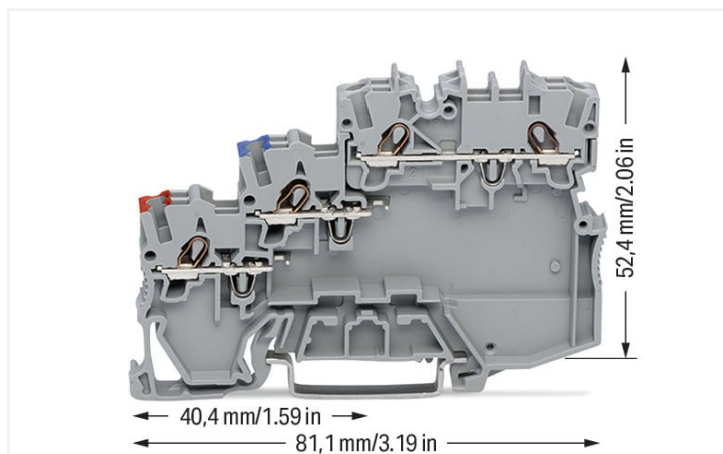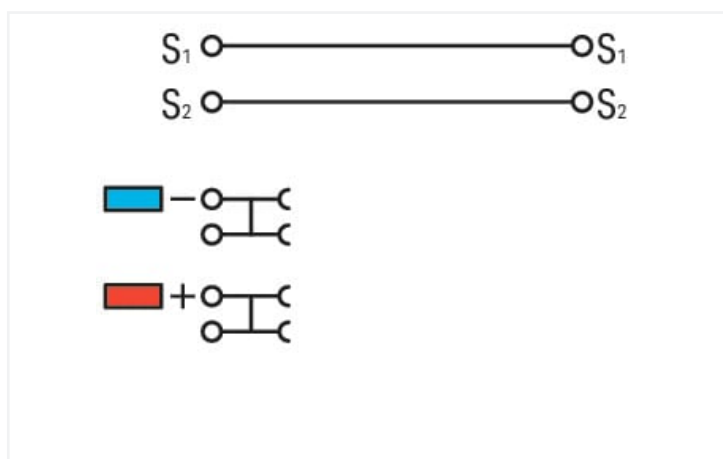# Data Sheet | Item Number: 2000-5311

3-conductor sensor terminal block; with colored conductor entries; 1 mm²; Push-in CAGE CLAMP®; 1,00 mm²; gray

https://www.wago.com/2000-5311

52,4 mm/2.06 in

40,4 mm/1.59 in

81,1 mm/3.19 in

Color: ■ gray

2000-5311

3.5 mm spacing per signal (2 x 3.5 mm = 7 mm)
The double spacing per pole of this terminal block series maximizes connectivity. For example, ten sensors may be connected using only five sensor terminal blocks plus a power supply terminal block.

Electrical data

Ratings per	IEC/EN 60947-7-1		
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	250 V	-	-
Rated surge voltage	4 kV	-	-
Rated current	13.5 A	-	-

Approvals per	UL 1059		
Use group	B	C	D
Rated voltage	300 V	-	300 V
Rated current	15 A	-	15 A

Approvals per	CSA 22.2 No 158		
Use group	B	C	D
Rated voltage	-	300 V	-
Rated current	-	10 A	-

Power Loss	
Power loss, per pole (potential)	0.4338 W
Rated current I_N for specified power loss	13.5 A
Resistance value for specified, current-dependent power loss	0.00238 Ω

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Connection data

Connection points	8
Total number of potentials	4
Number of levels	3
Number of jumper slots	4
Number of jumper slots (rank)	1

Connection 1

Connection technology	Push-in CAGE CLAMP®
Actuation type	Operating tool
Connectable conductor materials	Copper
Nominal cross-section	1 mm²
Solid conductor	0.14 … 1.5 mm² / 24 … 16 AWG
Solid conductor; push-in termination	0.5 … 1.5 mm² / 20 … 16 AWG
Fine-stranded conductor	0.14 … 1.5 mm² / 24 … 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 … 0.75 mm² / 24 … 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 … 0.75 mm² / 20 … 18 AWG
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Strip length	9 … 11 mm / 0.35 … 0.43 inches
Wiring direction	Front-entry wiring

Physical data

Width	7 mm / 0.276 inches
Height	81.1 mm / 3.193 inches
Depth from upper-edge of DIN-rail	52.4 mm / 2.063 inches

Mechanical data

Mounting type	DIN-35 rail
Marking level	Center/side marking

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
Fire load	0.336 MJ
Weight	14.7 g

Environmental requirements

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

Commercial data

eCl@ss 10.0	27-14-11-28
eCl@ss 9.0	27-14-11-28
ETIM 8.0	EC000900
ETIM 7.0	EC000900
PU (SPU)	50 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143393447
Customs tariff number	85369010000

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
CSA DEKRA Certification B.V.	C22.2	2130762
UL Underwriters Laboratories Inc.	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

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

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2000-5311	↓

Documentation

Additional Information		
Technical Section	pdf 2240.62 KB	↓

Bid Text			
2000-5311	07.08.2018	docx 14.89 KB	↓
2000-5311	19.02.2019	xml 3.91 KB	↓

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CAD/CAE-Data

CAD data

| 2D/3D Models |
| 2000-5311 | ↓ |

CAE data

| EPLAN Data Portal |
| 2000-5311 | ↓ |

| WSCAD Universe |
| 2000-5311 | ↓ |

| ZUKEN Portal |
| 2000-5311 | ↓ |

1 Compatible Products

1.1 Required Accessories

1.1.1 End plate

1.1.1.1 End plate

Item No.: 2000-5391
End and intermediate plate; 1 mm thick; for 3-conductor terminal blocks; gray

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.: 210-197
Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

Item No.: 210-114
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.: 210-113
Steel carrier rail; 35 x 7.5 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.: 216-241
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.: 216-242
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.: 216-243
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

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1.2.3 Installation

1.2.3.1 Cover

Item No.: 709-156
Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

1.2.3.2 Cover carrier

Item No.: 709-169
Cover carrier; Type 3; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

1.2.4 Jumper

1.2.4.1 Jumper

Item No.: 2000-406/020-000 Delta jumper; insulated; light gray	Item No.: 2000-410/000-006 Jumper; 10-way; insulated; blue	Item No.: 2000-410 Jumper; 10-way; insulated; light gray	Item No.: 2000-410/000-005 Jumper; 10-way; insulated; red
Item No.: 2000-402/000-006 Jumper; 2-way; insulated; blue	Item No.: 2000-402 Jumper; 2-way; insulated; light gray	Item No.: 2000-402/000-005 Jumper; 2-way; insulated; red	Item No.: 2000-402/000-018 Jumper; 2-way; insulated; yellow-green
Item No.: 2000-403/000-006 Jumper; 3-way; insulated; blue	Item No.: 2000-403 Jumper; 3-way; insulated; light gray	Item No.: 2000-403/000-005 Jumper; 3-way; insulated; red	Item No.: 2000-404/000-006 Jumper; 4-way; insulated; blue
Item No.: 2000-404 Jumper; 4-way; insulated; light gray	Item No.: 2000-404/000-005 Jumper; 4-way; insulated; red	Item No.: 2000-405/000-006 Jumper; 5-way; insulated; blue	Item No.: 2000-405 Jumper; 5-way; insulated; light gray
Item No.: 2000-405/000-005 Jumper; 5-way; insulated; red	Item No.: 2000-406/000-006 Jumper; 6-way; insulated; blue	Item No.: 2000-406 Jumper; 6-way; insulated; light gray	Item No.: 2000-406/000-005 Jumper; 6-way; insulated; red
Item No.: 2000-407/000-006 Jumper; 7-way; insulated; blue	Item No.: 2000-407 Jumper; 7-way; insulated; light gray	Item No.: 2000-407/000-005 Jumper; 7-way; insulated; red	Item No.: 2000-408/000-006 Jumper; 8-way; insulated; blue
Item No.: 2000-408 Jumper; 8-way; insulated; light gray	Item No.: 2000-408/000-005 Jumper; 8-way; insulated; red	Item No.: 2000-409/000-006 Jumper; 9-way; insulated; blue	Item No.: 2000-409 Jumper; 9-way; insulated; light gray
Item No.: 2000-409/000-005 Jumper; 9-way; insulated; red	Item No.: 2000-440 Jumper; from 1 to 10; insulated; light gray	Item No.: 2000-433/000-006 Jumper; from 1 to 3; insulated; blue	Item No.: 2000-433 Jumper; from 1 to 3; insulated; light gray
Item No.: 2000-433/000-005 Jumper; from 1 to 3; insulated; red	Item No.: 2000-434 Jumper; from 1 to 4; insulated; light gray	Item No.: 2000-435 Jumper; from 1 to 5; insulated; light gray	Item No.: 2000-436 Jumper; from 1 to 6; insulated; light gray

1.2.4.1 Jumper

Item No.: 2000-437
Jumper; from 1 to 7; insulated; light gray

Item No.: 2000-438
Jumper; from 1 to 8; insulated; light gray

Item No.: 2000-439
Jumper; from 1 to 9; insulated; light gray

Item No.: 2000-405/011-000
Star point jumper; 3-way; insulated; light gray

Item No.: 210-103
Wire commoning chain; insulated; black

Item No.: 210-123
Wire commoning chain; insulated; blue

1.2.5 Marking

1.2.5.1 Group marker carrier

Item No.: 2009-191
Group marker carrier; gray

1.2.5.2 Marker

Item No.: 793-3501
WMB marking card; as card; plain; snap-on type; white

Item No.: 2009-113/000-006
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue

Item No.: 2009-113/000-007
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray

Item No.: 2009-113/000-023
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green

Item No.: 2009-113/000-017
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green

Item No.: 2009-113/000-012
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange

Item No.: 2009-113/000-005
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red

Item No.: 2009-113/000-024
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet

Item No.: 2009-113
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white

Item No.: 2009-113/000-002
WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow

1.2.5.3 Marker carrier

Item No.: 2000-121
Adaptor; gray

1.2.5.4 Marking strip

Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.2.6 Protective warning marker

1.2.6.1 Cover

Item No.: 2000-115
Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

1.2.7 Push-in type wire jumper

1.2.7.1 Jumper

Item No.: 2009-404
Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; gray

Item No.: 2009-406
Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; gray

Item No.: 2009-402
Push-in type wire jumper; 0.75 mm²; insulated; 60 mm long; gray

1.2.8 Screwless end stop

1.2.8.1 Mounting accessories

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

Item No.: 249-116
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.2.9 Test and measurement

1.2.9.1 Testing accessories

Item No.: 2009-174
Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray

Item No.: 2009-182
Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

1.2.10 Tool

1.2.10.1 Operating tool

Item No.: 210-719
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Item No.: 210-648
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

Item No.: 210-647
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

Installation Notes

Conductor termination
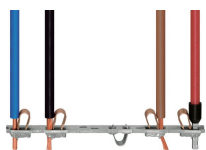
All conductor types at a glance
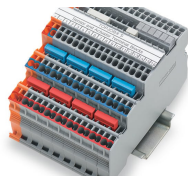
Commoning
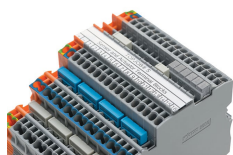
Commoning (signal level):
Commoning the signal level with push-in type jumper bars (2000 Series). Models with an LED can only be commoned in one jumper slot!
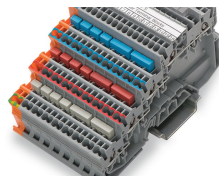TOPJOB® S Test Plug Adapters can be used in all jumper slots.

Upper level: Two independent signal pathways

Commoning

Commoning (potential level):
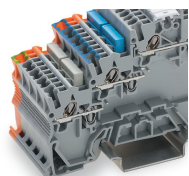Commoning potential levels via push-in type jumper bars (2000 Series).

Commoning (potential level):
Continuous commoning in the potential levels via push-in type jumper bars for even pole numbers (2000 Series)

Potential levels: Two adjacent commoning options on a current bar

Commoning

Ground commoning:
For sensor and actuator terminal blocks without ground connection to the DIN-rail, the ground connection can be performed by commoning to the terminal block with a ground foot.
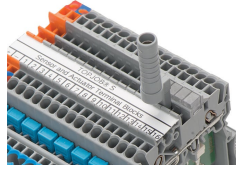

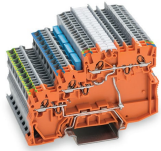For example, colored push-in type jumper bars are used with sensor terminal blocks.

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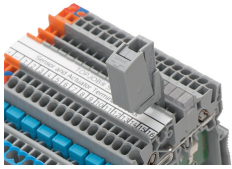
Testing

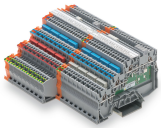Testing via testing tap (2009-182) (up to max. 42 V).

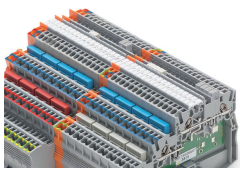Testing via testing tap (2009-174) (up to max. 42 V).

Application

Supply:
Orange supply terminal block of same profile with a power supply option from both the cabinet and sensor sides
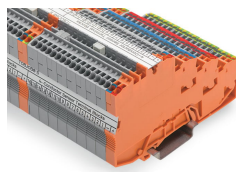

Terminal block assembly with 4-conductor sensor terminal blocks and 3-conductor actuator terminal blocks

Marking

Marking:
3.5 mm WMB markers (793-35xx) from the top or the side – additional marking option via marker carrier

Marking:
Labeling via marking strips (2009-110) – from the top or the side.

Current addresses can be found at:: www.wago.com