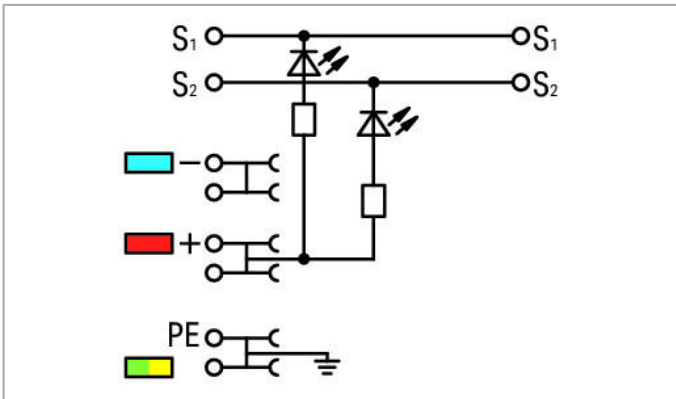
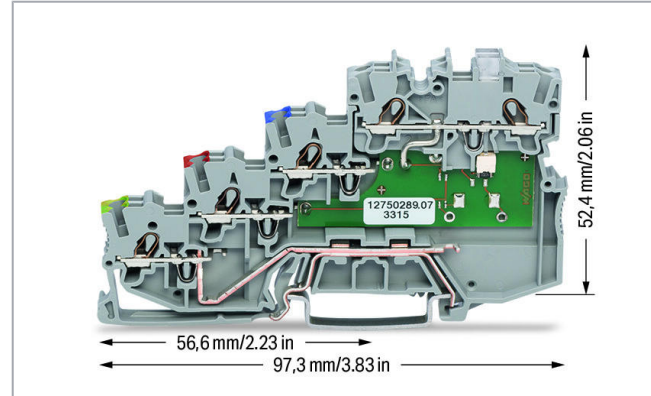
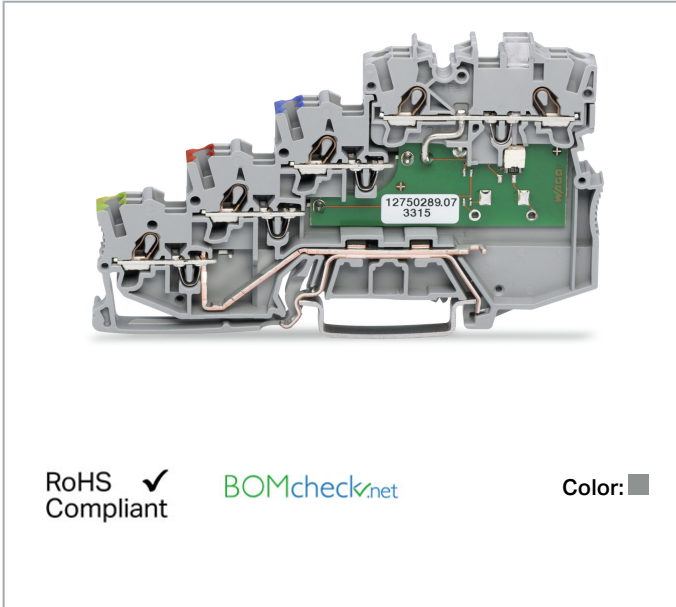


Data sheet | Item number: 2000-5417/1101-951

4-conductor sensor terminal block; LED (yellow); for NPN-(low-side) switching sensors; with ground contact; 1 mm²; Push-in CAGE CLAMP®; 1,00 mm²; gray



www.wago.com/2000-5417/1101-951



Item description

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.

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

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Data

Electrical data

Voltage type 1	DC
Nominal voltage	24 V

Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
Rated current	13.5 A

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	24 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group D)	24 V
Rated current UL (Use Group D)	15 A

Ratings per CSA

Approvals per	C22.2 No 158
Rated voltage CSA (Use Group C)	24 V
Rated current CSA (Use Group C)	10 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in Open Tool Slot
Connectable conductor materials	Copper
Nominal cross-section	1 mm ²
Solid conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm ² / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 0.75 mm ² / 20 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm ² / 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 inch

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Total number of connection points	10
Total number of potentials	5
Number of levels	4
Wiring type	Front-entry wiring
Number of jumper slots	4

Physical data

Width	7 mm / 0.276 inch
Height	97.3 mm / 3.831 inch

Mechanical data

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

Material data


Color	gray
Insulation material	Polyamide (PA66)
Fire load	0.012 MJ
Weight	22.4 g

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143452878
Customs tariff number	85369010000

Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60947	NTR NL 7671
	CCA DEKRA Certification B.V.	EN 60947	71- 102841

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




CSA
DEKRA Certification B.V.

C22.2 No. 158

2130762

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1059	20190930- E45172

Required accessories

End plate



Item no.: 2000-5491
End and intermediate plate; 1 mm thick; for 4-conductor terminal blocks; gray

www.wago.com/2000-5491

Compatible products

Carrier rail



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; www.wago.com/210-112
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 www.wago.com/210-113



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 www.wago.com/210-114



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; www.wago.com/210-115
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 www.wago.com/210-118



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 www.wago.com/210-196




















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 www.wago.com/210-197















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

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	<p>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</p>	www.wago.com/210-198
check		
	<p>Item no.: 2000-510 TOPJOB®S L-type test plug module; modular; for jumper contact slot; 1,00 mm²; gray</p>	www.wago.com/2000-510
	<p>Item no.: 2000-552 Modular TOPJOB®S connector; modular; for jumper contact slot; 2-pole; 1,00 mm²; gray</p>	www.wago.com/2000-552
	<p>Item no.: 2000-553 Modular TOPJOB®S connector; modular; for jumper contact slot; 3-pole; 1,00 mm²; gray</p>	www.wago.com/2000-553
	<p>Item no.: 2000-554 Modular TOPJOB®S connector; modular; for jumper contact slot; 4-pole; 1,00 mm²; gray</p>	www.wago.com/2000-554
	<p>Item no.: 2000-555 Modular TOPJOB®S connector; modular; for jumper contact slot; 5-pole; 1,00 mm²; gray</p>	www.wago.com/2000-555
	<p>Item no.: 2000-556 Modular TOPJOB®S connector; modular; for jumper contact slot; 6-pole; 1,00 mm²; gray</p>	www.wago.com/2000-556
	<p>Item no.: 2000-557 Modular TOPJOB®S connector; modular; for jumper contact slot; 7-pole; 1,00 mm²; gray</p>	www.wago.com/2000-557
	<p>Item no.: 2000-558 Modular TOPJOB®S connector; modular; for jumper contact slot; 8-pole; 1,00 mm²; gray</p>	www.wago.com/2000-558
	<p>Item no.: 2000-559 Modular TOPJOB®S connector; modular; for jumper contact slot; 9-pole; 1,00 mm²; gray</p>	www.wago.com/2000-559
	<p>Item no.: 2000-560 Modular TOPJOB®S connector; modular; for jumper contact slot; 10-pole; 1,00 mm²; gray</p>	www.wago.com/2000-560
	<p>Item no.: 2009-174 Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray</p>	www.wago.com/2009-174
	<p>Item no.: 2009-182 Testing tap; for max. 2.5 mm²; tool-free connection for individual test wires 0.08 - 2.5 mm; gray</p>	www.wago.com/2009-182
	<p>Item no.: 210-136 Test plug; 2 mm Ø; with 500 mm cable; red</p>	www.wago.com/210-136
	<p>Item no.: 210-137 Test plug; 2.3 mm Ø; with 500 mm cable; yellow</p>	www.wago.com/210-137
Jumper		
	<p>Item no.: 2000-402 Jumper; 2-way; insulated; light gray</p>	www.wago.com/2000-402
	<p>Item no.: 2000-402/000-005 Jumper; 2-way; insulated; red</p>	www.wago.com/2000-402/000-005

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

	Item no.: 2000-402/000-006 Jumper; 2-way; insulated; blue	www.wago.com/2000-402/000-006
	Item no.: 2000-402/000-018 Jumper; 2-way; insulated; yellow-green	www.wago.com/2000-402/000-018
	Item no.: 2000-403 Jumper; 3-way; insulated; light gray	www.wago.com/2000-403
	Item no.: 2000-403/000-005 Jumper; 3-way; insulated; red	www.wago.com/2000-403/000-005
	Item no.: 2000-403/000-006 Jumper; 3-way; insulated; blue	www.wago.com/2000-403/000-006
	Item no.: 2000-404 Jumper; 4-way; insulated; light gray	www.wago.com/2000-404
	Item no.: 2000-404/000-005 Jumper; 4-way; insulated; red	www.wago.com/2000-404/000-005
	Item no.: 2000-404/000-006 Jumper; 4-way; insulated; blue	www.wago.com/2000-404/000-006
	Item no.: 2000-405 Jumper; 5-way; insulated; light gray	www.wago.com/2000-405
	Item no.: 2000-405/000-005 Jumper; 5-way; insulated; red	www.wago.com/2000-405/000-005
	Item no.: 2000-405/000-006 Jumper; 5-way; insulated; blue	www.wago.com/2000-405/000-006
	Item no.: 2000-405/011-000 Star point jumper; 3-way; insulated; light gray	www.wago.com/2000-405/011-000
	Item no.: 2000-406 Jumper; 6-way; insulated; light gray	www.wago.com/2000-406
	Item no.: 2000-406/000-005 Jumper; 6-way; insulated; red	www.wago.com/2000-406/000-005

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



Item no.: 2000-406/000-006
Jumper; 6-way; insulated; blue

www.wago.com/2000-406/000-006



Item no.: 2000-406/020-000
Delta jumper; insulated; light gray

www.wago.com/2000-406/020-000



Item no.: 2000-407
Jumper; 7-way; insulated; light gray

www.wago.com/2000-407



Item no.: 2000-407/000-005
Jumper; 7-way; insulated; red

www.wago.com/2000-407/000-005



Item no.: 2000-407/000-006
Jumper; 7-way; insulated; blue

www.wago.com/2000-407/000-006



Item no.: 2000-408
Jumper; 8-way; insulated; light gray

www.wago.com/2000-408



Item no.: 2000-408/000-005
Jumper; 8-way; insulated; red

www.wago.com/2000-408/000-005



Item no.: 2000-408/000-006
Jumper; 8-way; insulated; blue

www.wago.com/2000-408/000-006



Item no.: 2000-409
Jumper; 9-way; insulated; light gray

www.wago.com/2000-409



Item no.: 2000-409/000-005
Jumper; 9-way; insulated; red

www.wago.com/2000-409/000-005



Item no.: 2000-409/000-006
Jumper; 9-way; insulated; blue

www.wago.com/2000-409/000-006



Item no.: 2000-410
Jumper; 10-way; insulated; light gray

www.wago.com/2000-410



Item no.: 2000-410/000-005
Jumper; 10-way; insulated; red












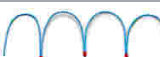




www.wago.com/2000-410/000-005














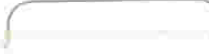


Item no.: 2000-410/000-006
Jumper; 10-way; insulated; blue

www.wago.com/2000-410/000-006

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

	Item no.: 2000-433 Jumper; from 1 to 3; insulated; light gray	www.wago.com/2000-433
	Item no.: 2000-433/000-005 Jumper; from 1 to 3; insulated; red	www.wago.com/2000-433/000-005
	Item no.: 2000-433/000-006 Jumper; from 1 to 3; insulated; blue	www.wago.com/2000-433/000-006
	Item no.: 2000-434 Jumper; from 1 to 4; insulated; light gray	www.wago.com/2000-434
	Item no.: 2000-435 Jumper; from 1 to 5; insulated; light gray	www.wago.com/2000-435
	Item no.: 2000-436 Jumper; from 1 to 6; insulated; light gray	www.wago.com/2000-436
	Item no.: 2000-437 Jumper; from 1 to 7; insulated; light gray	www.wago.com/2000-437
	Item no.: 2000-438 Jumper; from 1 to 8; insulated; light gray	www.wago.com/2000-438
	Item no.: 2000-439 Jumper; from 1 to 9; insulated; light gray	www.wago.com/2000-439
	Item no.: 2000-440 Jumper; from 1 to 10; insulated; light gray	www.wago.com/2000-440
	Item no.: 210-103 Wire commoning chain; insulated; black	www.wago.com/210-103
	Item no.: 210-123 Wire commoning chain; insulated; blue	www.wago.com/210-123
Marking accessories		
	Item no.: 2000-121 Adaptor; gray	www.wago.com/2000-121
	Item no.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	www.wago.com/2009-110
	Item no.: 2009-113 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white	www.wago.com/2009-113
	Item no.: 2009-113/000-002 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow	www.wago.com/2009-113/000-002

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

	<p>Item no.: 2009-113/000-005 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red</p>	www.wago.com/2009-113/000-005
	<p>Item no.: 2009-113/000-006 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue</p>	www.wago.com/2009-113/000-006
	<p>Item no.: 2009-113/000-007 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray</p>	www.wago.com/2009-113/000-007
	<p>Item no.: 2009-113/000-012 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange</p>	www.wago.com/2009-113/000-012
	<p>Item no.: 2009-113/000-017 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green</p>	www.wago.com/2009-113/000-017
	<p>Item no.: 2009-113/000-023 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green</p>	www.wago.com/2009-113/000-023
	<p>Item no.: 2009-113/000-024 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet</p>	www.wago.com/2009-113/000-024
	<p>Item no.: 2009-191 Group marker carrier</p>	www.wago.com/2009-191
	<p>Item no.: 793-3501 WMB marking card; as card; plain; snap-on type; white</p>	www.wago.com/793-3501
Push-In type wire jumper		
	<p>Item no.: 2009-402 Push-in type wire jumper; 0.75 mm²; insulated; 60 mm long; gray</p>	www.wago.com/2009-402
	<p>Item no.: 2009-404 Push-in type wire jumper; 0.75 mm²; insulated; 110 mm long; gray</p>	www.wago.com/2009-404
	<p>Item no.: 2009-406 Push-in type wire jumper; 0.75 mm²; insulated; 250 mm long; gray</p>	www.wago.com/2009-406
Protective Warning Marker		
	<p>Item no.: 2000-115 Protective warning marker; with high-voltage symbol, black; for 5 terminal blocks; yellow</p>	www.wago.com/2000-115
ferrule		
	<p>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</p>	www.wago.com/216-241

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



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

www.wago.com/216-242



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

www.wago.com/216-243

tools



Item no.: 210-647

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

www.wago.com/210-647



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

Downloads

Documentation

Bid Text

2000-5417/1101-951 docx - Datei	7. 8. 2018	docx 15.5 kB	Download
2000-5417/1101-951 X81 - Datei	19. 2. 2019	xml 4.1 kB	Download

Additional Information

Technical explanations	3. 4. 2019	pdf 2.2 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 2000-5417/1101-951	URL	Download
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CAE data

EPLAN Data Portal 2000-5417/1101-951	URL	Download
ZUKEN Portal 2000-5417/1101-951	URL	Download
EPLAN Data Portal 2000-5417/1101-951	URL	Download

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2000-5417/1101-951

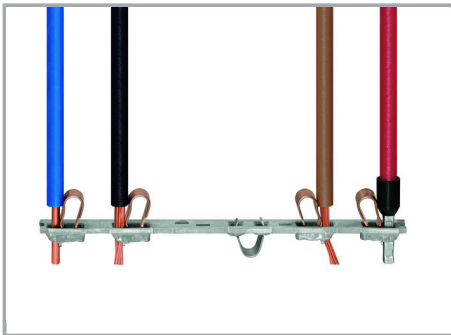
[URL](#)

[Download](#)

4-conductor sensor terminal block; LED (yellow); for NPN-(low-side) switching sensors; with ground contact; 1 mm²; Push-in CAGE CLAMP®; 1,00 mm²; gray

Installation Notes

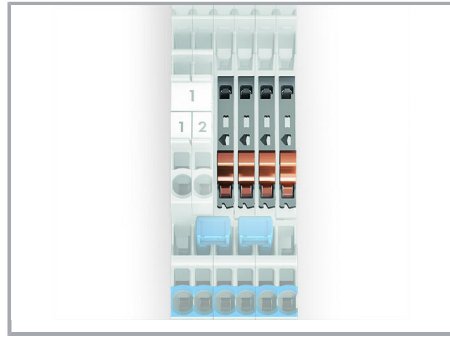
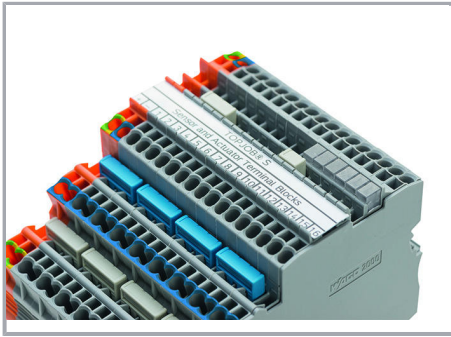
Conductor termination



All conductor types at a glance

Commoning

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



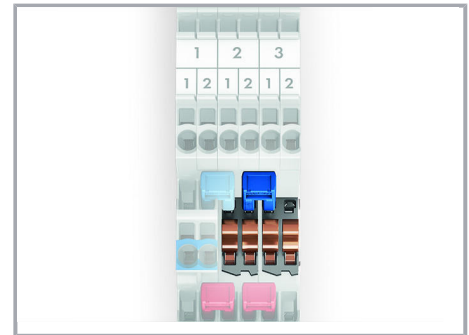
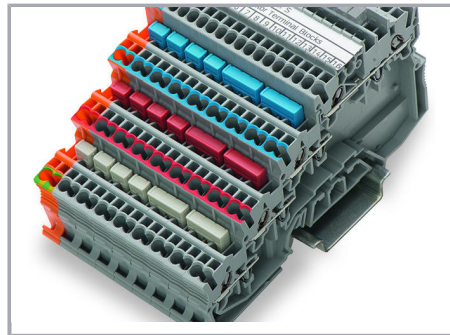
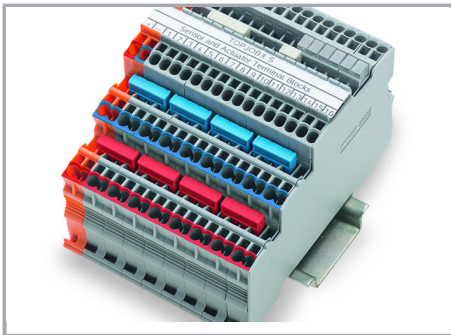
Commoning (signal level):

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).

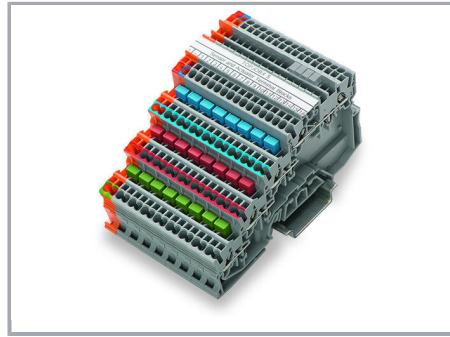
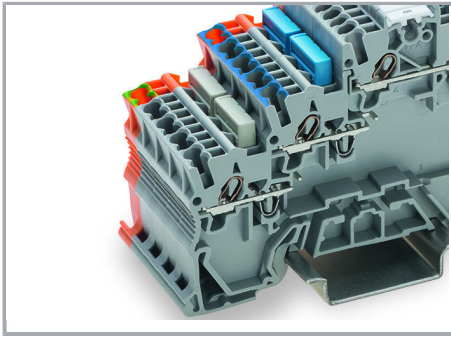
Commoning (potential level):

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

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

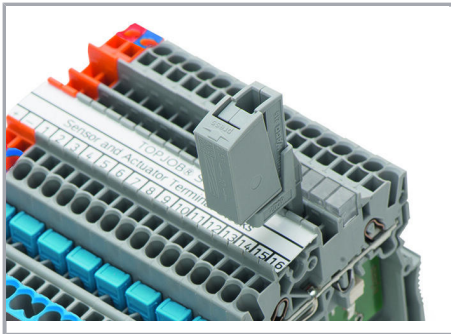


Ground commoning:

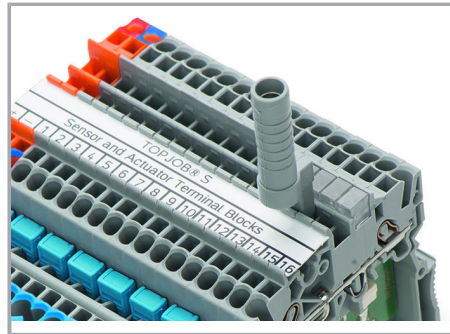
For sensor and actuator terminal blocks without ground connection to the DIN-rail, the ground connection can be performed by commoning to the terminal block with a ground foot.

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

Testing



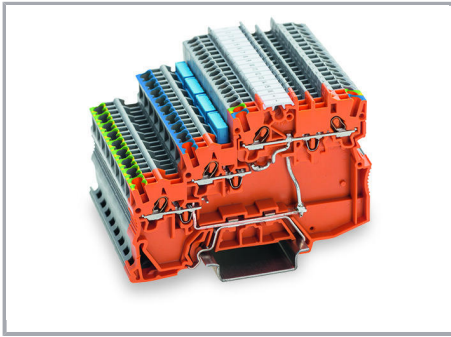
Testing via testing tap (2009-182) (up to max. 42 V).



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

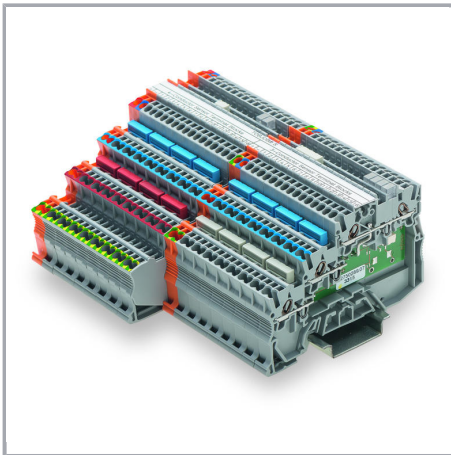
Application

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



Supply:

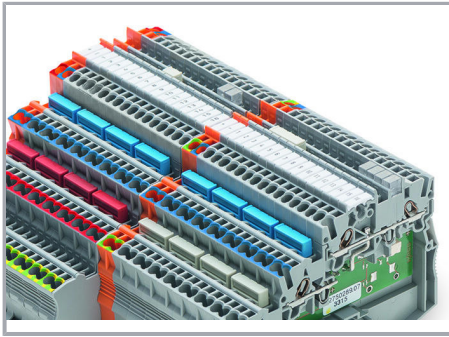
Orange supply terminal block of same profile with a power supply option from both the cabinet and sensor sides



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

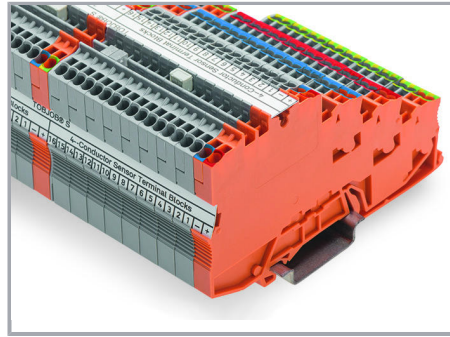
Marking

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



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.

Product family

TOPJOB® S

TOPJOB® S: In various industrial applications and modern building installations, WAGO's wide and versatile range of rail-mount terminal blocks provides more than just reliable electrical connections.

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