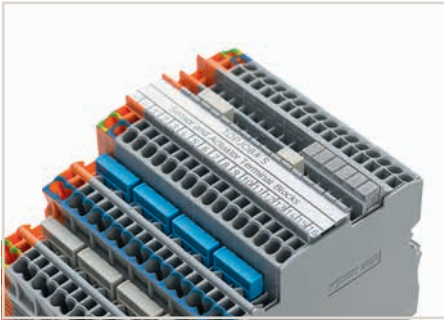


TOPJOB® S

Sensor and Actuator Terminal Blocks, 2000 Series

Description and Installation

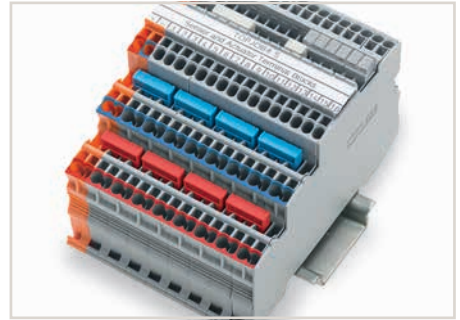
1



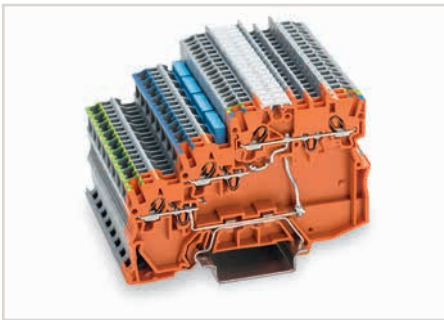
Commoning (signal level):
Commoning the signal level with push-in type jumper bars (2000 Series). Models with an LED can only be commoned in one jumper slot. TOPJOB® S Test Plug Adapters can be used in all jumper slots.



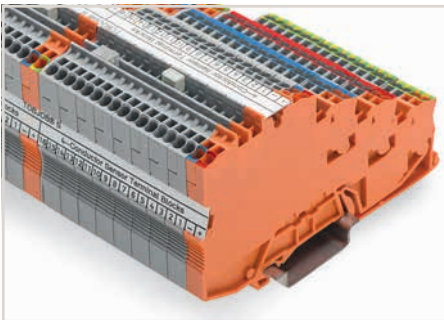
Upper level: two independent signal pathways



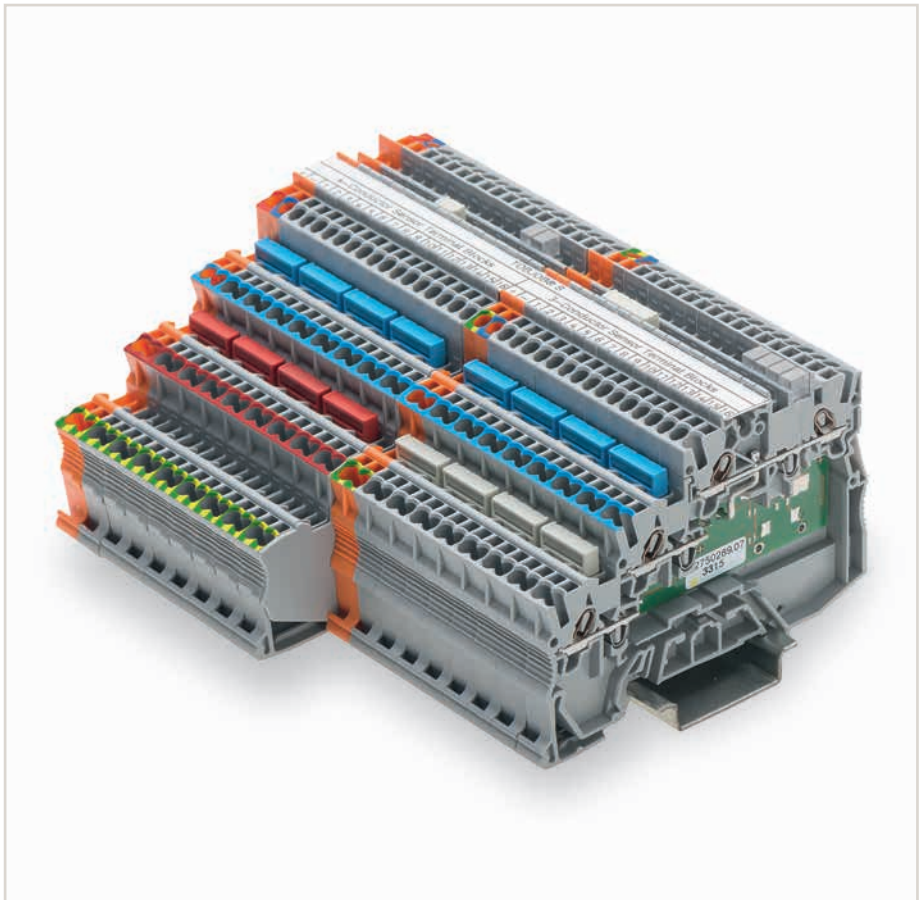
Commoning (potential level):
Commoning potential levels via push-in type jumper bars (2000 Series).



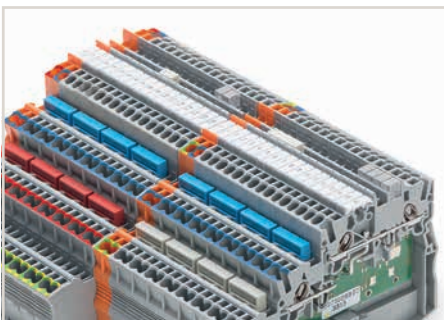
Power supply via orange supply terminal block of same profile from both the cabinet and sensor sides



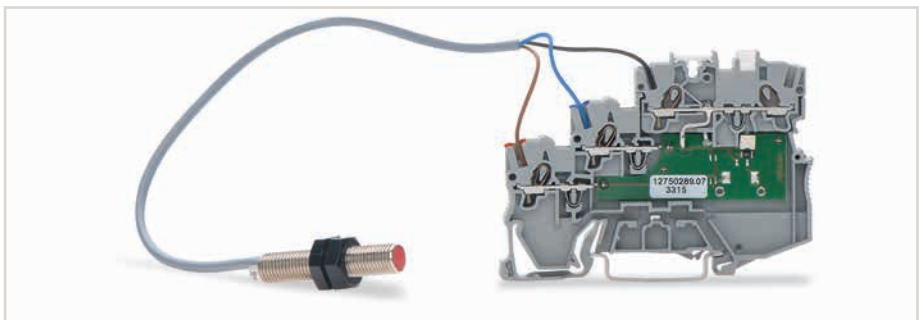
Labeling
Labeling via marking strips (2009-110) – from the top or the side.



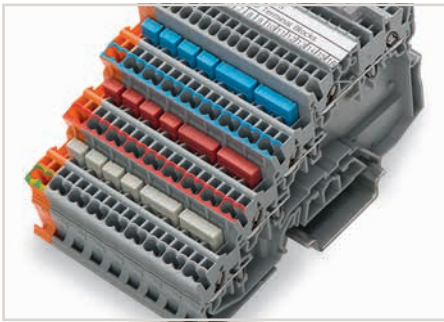
Terminal block assembly with 4-conductor sensor terminal blocks and 3-conductor actuator terminal blocks



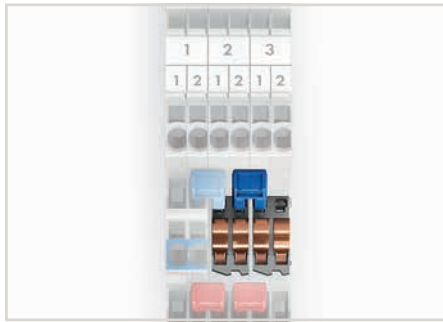
Labeling
Labeling via 3.5 mm WMB markers (793-35xx) from the top or the side – additional marking option via marker carrier.



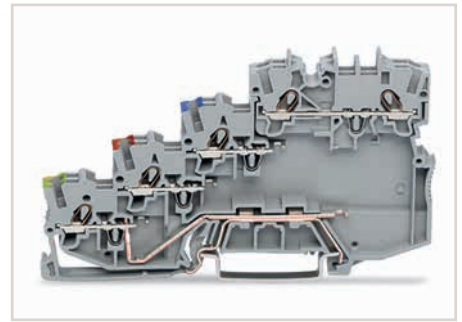
3-conductor sensor LED terminal block with a connected sensor



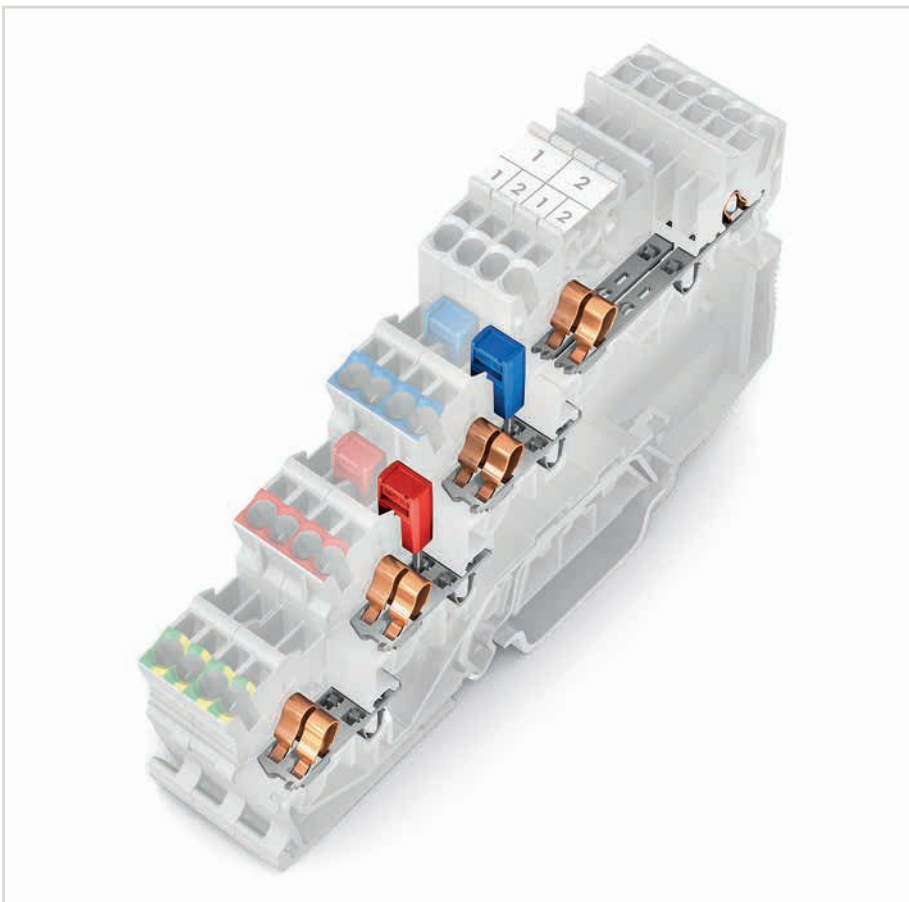
Commoning (potential level):
Continuous commoning in the potential levels via push-in type jumper bars for even pole numbers (2000 Series)



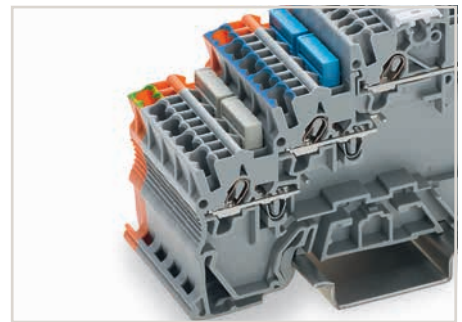
Two adjacent commoning options on a current bar



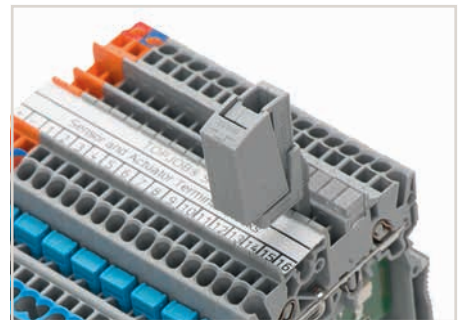
4-conductor sensor terminal block with ground contact



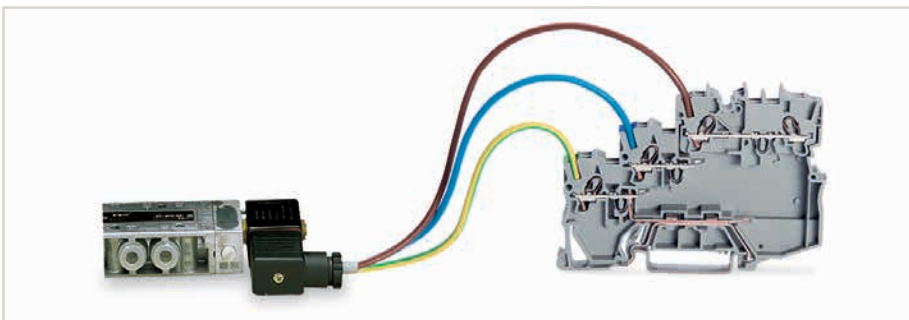
Upper level: two independent signal pathways, in 3.5 mm spacing per pole, with a dual jumper slot
Lower levels: two interconnected potential clamping units, with a single jumper slot, can be commoned in both directions



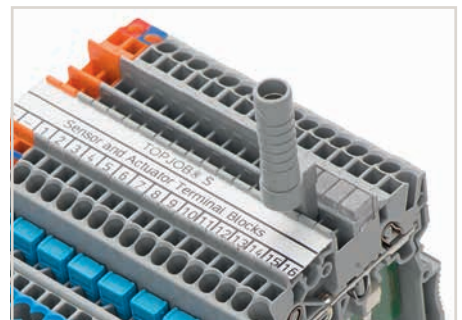
Ground commoning:
For sensor and actuator terminal blocks without ground connection to the DIN-rail, the ground connection can be performed by commoning to the terminal block with a ground foot.



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



3-conductor actuator LED terminal block with a connected actuator



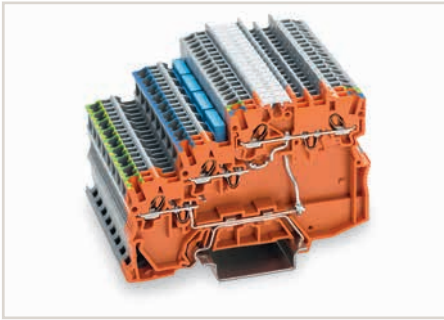
Testing via test plug adapter (2009-174) (up to max. 42 V).

TOPJOB® S

3-Conductor Sensor Terminal Blocks

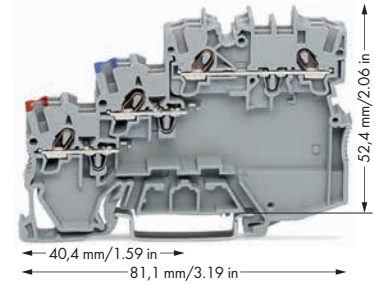
1 (1.5) mm², 2000 Series

1

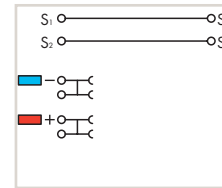


Power supply via orange supply terminal block of same profile from both the cabinet and sensor sides

Note:
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.
3.5 mm spacing per signal
(2 x 3.5 mm = 7 mm)



2000-5311



3-conductor sensor terminal block

Color	Item No.	Pack. Unit
gray	2000-5311	50

Technical Data

Ratings per	IEC/EN 60947-7-1
Voltage type	
Nominal voltage	
Rated voltage (III / 3)	250 V
Rated surge voltage (III / 3)	4 kV
Rated current	13.5 A
Nominal cross section	1 mm ²
Connection Data	
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 ferrule, push-in termination, min.	0.5 mm ² / 20 AWG
Strip length	9 ... 11 mm / 0.35 ... 0.43 inch
Terminal block width	7 mm / 0.276 inch
Insulation material	Polyamide 66 (PA 66)

Accessories (Selection)

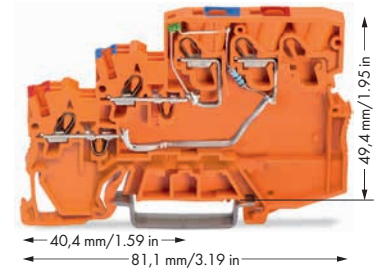
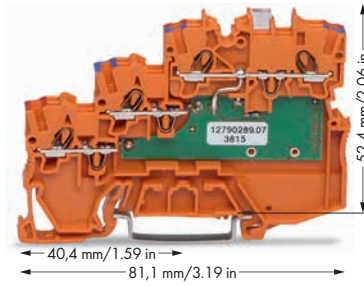
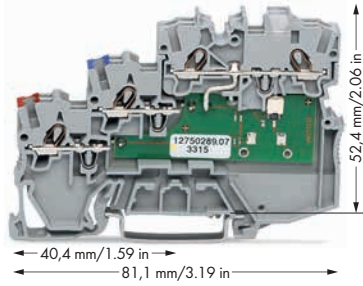
	Item No.	Page
Push-in type jumper bar, insulated, I _n 14 A, light gray	2000-402	160
End and intermediate plate, 1 mm thick	gray 2000-5391	161
WMB Multi marking system, white, 10 strips with 10 markers per card, for 3.5 mm terminal block width	plain 793-3501	780
Marking strip, plain, 11 mm wide, 50 m reel	white 2009-110	783
Test plug adapter, for 4 mm Ø test plug	gray 2009-174	175

Accessories (jumpers, end plates, test plugs, etc.), see page 160

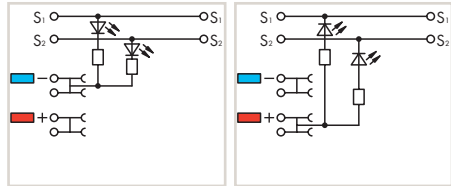
Carrier rails and tools, see Section 13

Appropriate marking system, WMB/markings strips, see Full Line Catalog, Volume 6

Approvals and corresponding ratings, visit www.wago.com



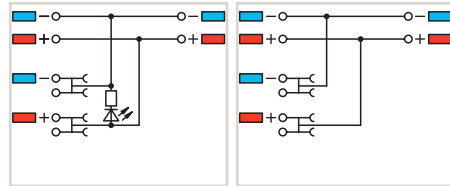
2000-5311/1102-950 2000-5311/1101-951



3-conductor sensor LED terminal block, for PNP (high-side) switching sensors, yellow LED

Color	Item No.	Pack. Unit
gray	2000-5311/1102-950	50

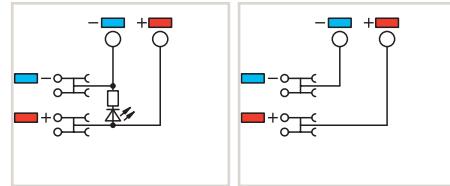
2000-5372/1102-953 2000-5372



3-conductor sensor LED supply terminal block, 24 VDC, green LED

Color	Item No.	Pack. Unit
orange	2000-5372/1102-953	15

2000-5352/1102-953 2000-5352



3-conductor sensor LED supply terminal block, 24 VDC, green LED, control panel side: 2.5 (4) mm², max. 28 A

Color	Item No.	Pack. Unit
orange	2000-5352/1102-953	15

3-conductor sensor LED terminal block, for NPN (low-side) switching sensors, yellow LED

Color	Item No.	Pack. Unit
gray	2000-5311/1101-951	50

3-conductor sensor supply terminal block, max. 250 V, internally commoned

Color	Item No.	Pack. Unit
orange	2000-5372	15

3-conductor sensor supply terminal block, max. 250 V, control panel side: 2.5 (4) mm², max. 28 A

Color	Item No.	Pack. Unit
orange	2000-5352	15

IEC/EN 60947-7-1
DC
24 V
13.5 A
1 mm²
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 ... 1.5 mm² / 20 ... 16 AWG
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 mm² / 20 AWG
9 ... 11 mm / 0.35 ... 0.43 inch
7 mm / 0.276 inch
Polyamide 66 (PA 66)

IEC/EN 60947-7-1
13.5 A
1 mm²
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 ... 1.5 mm² / 20 ... 16 AWG
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 mm² / 20 AWG
9 ... 11 mm / 0.35 ... 0.43 inch
7 mm / 0.276 inch
Polyamide 66 (PA 66)

IEC/EN 60947-7-1
13.5 A
1 mm²
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 ... 1.5 mm² / 20 ... 16 AWG
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 mm² / 20 AWG
9 ... 11 mm / 0.35 ... 0.43 inch
7 mm / 0.276 inch
Polyamide 66 (PA 66)

	Item No.	Page
2-way	2000-402	160
gray	2000-5391	161
plain	793-3501	780
white	2009-110	783
gray	2009-174	175

	Item No.	Page
2-way	2000-402	160
gray	2000-5391	161
plain	793-3501	780
white	2009-110	783
gray	2009-174	175

	Item No.	Page
2-way	2000-402	160
gray	2000-5391	161
plain	793-3501	780
white	2009-110	783
gray	2009-174	175

TOPJOB® S

4-Conductor Sensor Terminal Blocks

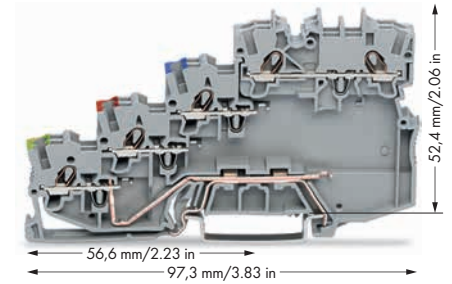
1 (1.5) mm², 2000 Series

1



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

Note:
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.
3.5 mm spacing per signal
(2 x 3.5 mm = 7 mm)



2000-5417		2000-5410	
4-conductor sensor terminal block, with ground connection			
Color	Item No.	Pack. Unit	
● gray	2000-5417	50	
4-conductor sensor terminal block, with ground via push-in type jumper bar			
Color	Item No.	Pack. Unit	
● gray	2000-5410	50	

Technical Data

Ratings per	IEC/EN 60947-7-1
Voltage type	
Nominal voltage	
Rated voltage (III / 3)	250 V
Rated surge voltage (III / 3)	4 kV
Rated current	13.5 A
Nominal cross section	1 mm ²
Connection Data	
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 ferrule, push-in termination, min.	0.5 mm ² / 20 AWG
Strip length	9 ... 11 mm / 0.35 ... 0.43 inch
Terminal block width	7 mm / 0.276 inch
Insulation material	Polyamide 66 (PA 66)

Accessories (Selection)

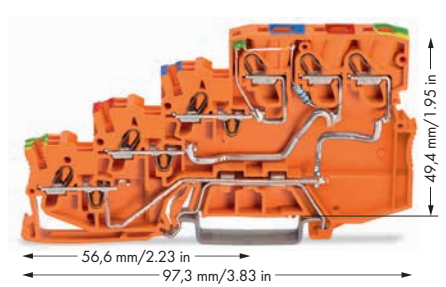
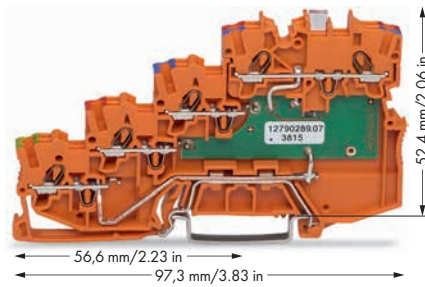
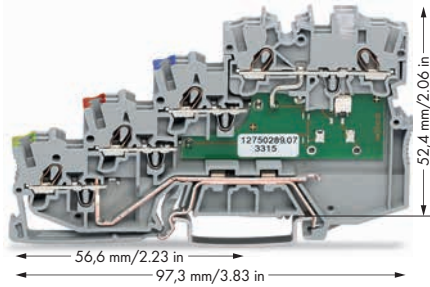
	Item No.	Page
Push-in type jumper bar, insulated, I _n 14 A, light gray	2000-402	160
End and intermediate plate, 1 mm thick	2000-5491	161
Test plug adapter, for 4 mm Ø test plug	2009-174	175

Accessories (jumpers, end plates, test plugs, etc.), see page 160

Carrier rails and tools, see Section 13

Appropriate marking system, WMB/markings strips, see Full Line Catalog, Volume 6

Approvals and corresponding ratings, visit www.wago.com



2000-5417/1102-950 2000-5417/1101-951

4-conductor sensor LED terminal block, yellow LED, for PNP (high-side) switching sensors, with ground connection

Color	Item No.	Pack. Unit
gray	2000-5417/1102-950	50

2000-5477/1102-953 2000-5477

4-conductor sensor LED supply terminal block, 24 VDC, green LED, with ground connection

Color	Item No.	Pack. Unit
orange	2000-5477/1102-953	15

2000-5457/1102-953 2000-5457

4-conductor sensor LED supply terminal block, 24 VDC, green LED, with ground connection, control panel side: 2.5 (4) mm², max. 28 A

Color	Item No.	Pack. Unit
orange	2000-5457/1102-953	15

4-conductor sensor LED terminal block, yellow LED, for PNP (high-side) switching sensors, with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5410/1102-950	50

4-conductor sensor supply terminal block, max. 250 V, internally commoned, with ground connection

Color	Item No.	Pack. Unit
orange	2000-5477	15

4-conductor sensor supply terminal block, max. 250 V, with ground connection, control panel side: 2.5 (4) mm², max. 28 A

Color	Item No.	Pack. Unit
orange	2000-5457	15

4-conductor sensor LED terminal block, yellow LED, for NPN (low-side) switching sensors, with ground connection

Color	Item No.	Pack. Unit
gray	2000-5417/1101-951	50

4-conductor sensor LED terminal block, yellow LED, for NPN (low-side) switching sensors, with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5410/1101-951	50

IEC/EN 60947-7-1
DC
24 V
13.5 A
1 mm ²
0.14 ... 1.5 mm ² / 24 ... 16 AWG
0.5 ... 1.5 mm ² / 20 ... 16 AWG
0.14 ... 1.5 mm ² / 24 ... 16 AWG
0.5 mm ² / 20 AWG
9 ... 11 mm / 0.35 ... 0.43 inch
7 mm / 0.276 inch
Polyamide 66 (PA 66)

IEC/EN 60947-7-1
13.5 A
1 mm ²
0.14 ... 1.5 mm ² / 24 ... 16 AWG
0.5 ... 1.5 mm ² / 20 ... 16 AWG
0.14 ... 1.5 mm ² / 24 ... 16 AWG
0.5 mm ² / 20 AWG
9 ... 11 mm / 0.35 ... 0.43 inch
7 mm / 0.276 inch
Polyamide 66 (PA 66)

IEC/EN 60947-7-1
13.5 A
1 mm ²
0.14 ... 1.5 mm ² / 24 ... 16 AWG
0.5 ... 1.5 mm ² / 20 ... 16 AWG
0.14 ... 1.5 mm ² / 24 ... 16 AWG
0.5 mm ² / 20 AWG
9 ... 11 mm / 0.35 ... 0.43 inch
7 mm / 0.276 inch
Polyamide 66 (PA 66)

	Item No.	Page
2-way	2000-402	160
gray	2000-5491	161
gray	2009-174	175

	Item No.	Page
2-way	2000-402	160
gray	2000-5491	161
gray	2009-174	175

	Item No.	Page
2-way	2000-402	160
gray	2000-5491	161
gray	2009-174	175

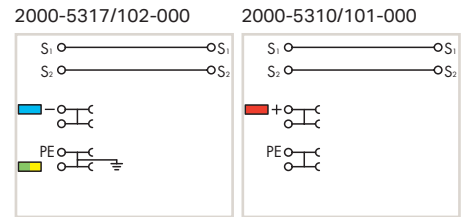
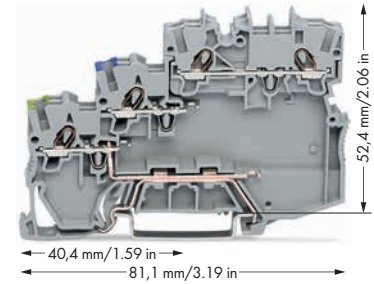
TOPJOB® S

3-Conductor Actuator Terminal Blocks

1 (1.5) mm², 2000 Series

1

Note:
 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.
 3.5 mm spacing per signal
 (2 x 3.5 mm = 7 mm)



3-conductor actuator terminal block, for PNP (high-side) switching actuators, with ground connection

Color	Item No.	Pack. Unit
gray	2000-5317/102-000	50

3-conductor actuator terminal block, for PNP (high-side) switching actuators, with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5310/102-000	50

3-conductor actuator terminal block, for NPN (low-side) switching actuators, with ground connection

Color	Item No.	Pack. Unit
gray	2000-5317/101-000	50

3-conductor actuator terminal block, for NPN (low-side) switching actuators, with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5310/101-000	50

Technical Data

Ratings per	IEC/EN 60947-7-1
Voltage type	
Nominal voltage	
Rated voltage (III / 3)	250 V
Rated surge voltage (III / 3)	4 kV
Rated current	13.5 A
Nominal cross section	1 mm ²
Connection Data	
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 ferrule, push-in termination, min.	0.5 mm ² / 20 AWG
Strip length	9 ... 11 mm / 0.35 ... 0.43 inch
Terminal block width	7 mm / 0.276 inch
Insulation material	Polyamide 66 (PA 66)

Accessories (Selection)

Push-in type jumper bar, insulated, I _N 14 A, light gray	
End and intermediate plate, 1 mm thick	
Test plug adapter, for 4 mm Ø test plug	

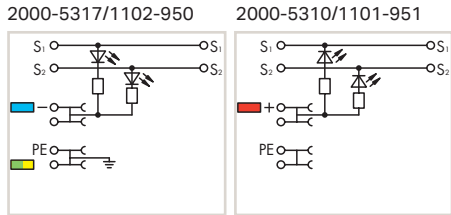
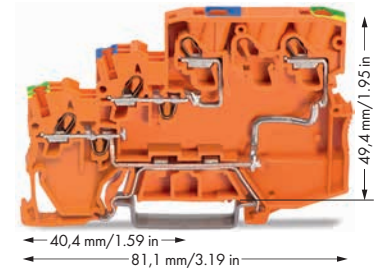
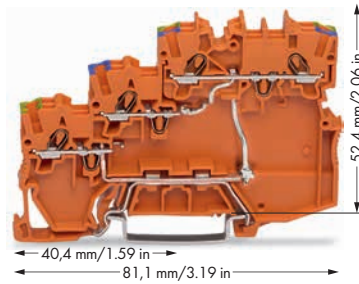
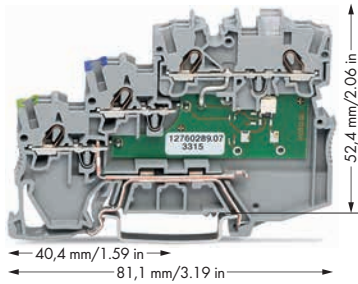
Accessories (jumpers, end plates, test plugs, etc.), see page 160

Carrier rails and tools, see Section 13

Appropriate marking system, WMB/markings strips, see Full Line Catalog, Volume 6

Approvals and corresponding ratings, visit www.wago.com

	Item No.	Page
2-way	2000-402	160
gray	2000-5391	161
gray	2009-174	175



3-conductor actuator terminal block, yellow LED, for PNP (high-side) switching actuators, with ground connection

Color	Item No.	Pack. Unit
gray	2000-5317/1102-950	50

3-conductor actuator terminal block, yellow LED, for PNP (high-side) switching actuators, with ground via push-in type jumper bar

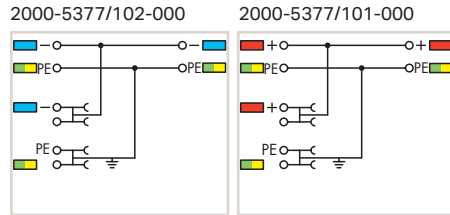
Color	Item No.	Pack. Unit
gray	2000-5310/1102-950	50

3-conductor actuator terminal block, yellow LED, for NPN (low-side) switching actuators, with ground connection

Color	Item No.	Pack. Unit
gray	2000-5317/1101-951	50

3-conductor actuator terminal block, yellow LED, for NPN (low-side) switching actuators, with ground via push-in type jumper bar

Color	Item No.	Pack. Unit
gray	2000-5310/1101-951	50

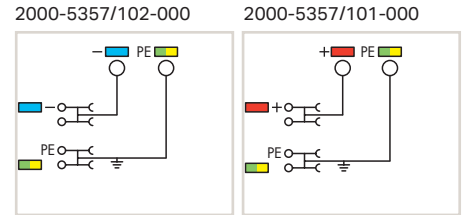


3-conductor actuator supply terminal block, max. 250 V, for PNP (high-side) switching actuators, with ground connection, internally commoned

Color	Item No.	Pack. Unit
orange	2000-5377/102-000	15

3-conductor actuator supply terminal block, max. 250 V, for NPN (low-side) switching actuators, with ground connection

Color	Item No.	Pack. Unit
orange	2000-5377/101-000	15



3-conductor actuator supply terminal block, max. 250 V, control panel side: 2.5 (4) mm², max. 28 A, for PNP (high-side) switching actuators, with ground connection

Color	Item No.	Pack. Unit
orange	2000-5357/102-000	15

3-conductor actuator supply terminal block, max. 250 V, control panel side: 2.5 (4) mm², max. 28 A, for NPN (low-side) switching actuators, with ground connection

Color	Item No.	Pack. Unit
orange	2000-5357/101-000	15

IEC/EN 60947-7-1
DC
24 V
13.5 A
1 mm²
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 ... 1.5 mm² / 20 ... 16 AWG
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 mm² / 20 AWG
9 ... 11 mm / 0.35 ... 0.43 inch
7 mm / 0.276 inch
Polyamide 66 (PA 66)

IEC/EN 60947-7-1
13.5 A
1 mm²
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 ... 1.5 mm² / 20 ... 16 AWG
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 mm² / 20 AWG
9 ... 11 mm / 0.35 ... 0.43 inch
7 mm / 0.276 inch
Polyamide 66 (PA 66)

IEC/EN 60947-7-1
13.5 A
1 mm²
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 ... 1.5 mm² / 20 ... 16 AWG
0.14 ... 1.5 mm² / 24 ... 16 AWG
0.5 mm² / 20 AWG
9 ... 11 mm / 0.35 ... 0.43 inch
7 mm / 0.276 inch
Polyamide 66 (PA 66)

	Item No.	Page
2-way	2000-402	160
gray	2000-5391	161
gray	2009-174	175



	Item No.	Page
2-way	2000-402	160
gray	2000-5391	161
gray	2009-174	175

	Item No.	Page
2-way	2000-402	160
gray	2000-5391	160
gray	2009-174	175

Accessories


End Plates	Item No.	Pack. Unit
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End and intermediate plates, 1 mm thick

	for 3-conductor terminal blocks		
	● gray	2000-5391	100 (4x25)
	for 4-conductor terminal blocks		
	● gray	2000-5491	100 (4x25)


Jumpers	Item No.	Pack. Unit
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Push-in type jumper bars, insulated

	I _N 14 A, light gray		
	2-pole	2000-402	200 (8x25)
	3-pole	2000-403	200 (8x25)
	:	:	:
	10-pole	2000-410	100 (4x25)

	● red	.../000-005	
	● blue	.../000-006	
	● yellow-green	.../000-018	

Push-in type jumper bars, insulated

	I _N 14 A, light gray		
	1 to 3	2000-433	200 (8x25)
	1 to 4	2000-434	200 (8x25)
	:	:	:
	1 to 10	2000-440	100 (4x25)

Push-in type wire jumpers, insulated

	I _N 9 A, 0.75 mm ² conductor cross-section		
	L = 60 mm	2009-402	100 (10x10)
	L = 110 mm	2009-404	100 (10x10)
	L = 250 mm	2009-406	100 (10x10)

Marking	Item No.	Pack. Unit
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Double-deck marker carrier,

	pivoting		
	● gray	2000-121	50 (2x25)


Marking strip, plain,

	11 mm wide, 50 m roll		
	○ white	2009-110	1


WMB Inline, plain,

	2,300 WMB markers (3.5 mm) on roll		
	○ white	2009-113	1

WMB Multi Marking System, plain


	10 strips with 10 markers per card		
	for 3.5 mm terminal block width		
	○ white	793-3501	5

smartPRINTER


		258-5000	1
	More information at www.wago.com/printer		

Carrier Rails	Item No.	Pack. Unit
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Carrier rails, steel

	I _N 76 A (reference length of 1 m)		
	35 x 7.5 mm, 1 mm thick, 2 m long		
	unslotted	210-113	10
	slotted	210-112	10 (10x1)
	Hole width: 25 mm; hole spacing: 36 mm		
	slotted	210-115	1
	Hole width: 18 mm; hole spacing: 25 mm		

Carrier rail, aluminum


	I _N 76 A (reference length of 1 m)		
	35 x 8.2 mm, 1.6 mm thick, 2 m long		
	unslotted	210-196	10

End stops	Item No.	Pack. Unit
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	for DIN-35 rails		
	6 mm wide	249-116	100 (4x25)
	10 mm wide	249-117	50 (2x25)

Testing Accessories	Item No.	Pack. Unit
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Testing tap

	for max. 2.5 mm ²		
	gray	2009-182	100 (4x25)

Test plug adapter

	for 4 mm Ø test plug		
	gray	2009-174	100 (4x25)

Banana plugs

	for 4 mm Ø socket,		
	color mixed	215-111	50

Tools	Item No.	Pack. Unit
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"Quickstrip 10" wire stripper

		206-124	1
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"Variocrimp 4" crimping tool

	0.25 ... 4 mm ²	206-204	1
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Insulated ferrules, extra long,

	0.5 mm ²	216-241	1000
	0.75 mm ²	216-242	1000

For 2.5 (4) mm² supply terminal blocks:

	1 mm ²	216-243	1000
	1.5 mm ²	216-244	1000
	2.5 mm ²	216-246	1000

Operating tool with a partially insulated shaft,

	type 1, (2.5 x 0.4) mm blade		
		210-719	1