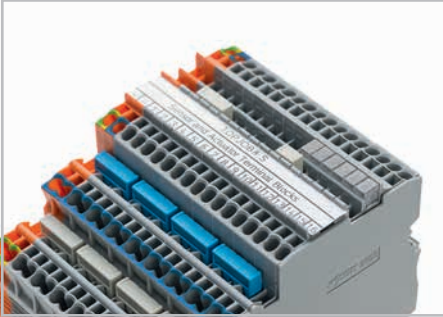


1 Sensor and Actuator Terminal Blocks 2000 Series

6 Commoning: Signal Level

Volume 1

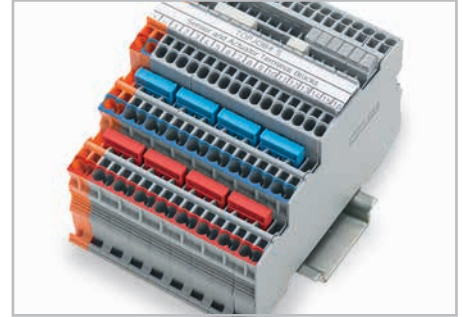


Commoning the signal level with push-in type jumper bars (2000 Series); models with an LED can only be commoned in one jumper slot! TOPJOB® S test plug adapter can be used in all jumper slots.



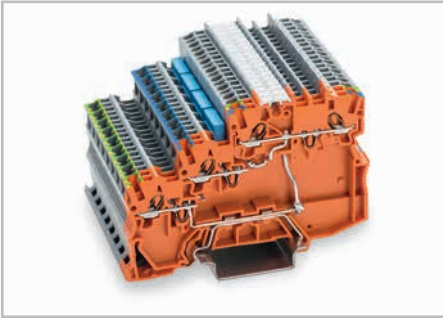
Upper level: two independent signal pathways

Commoning: Potential Level



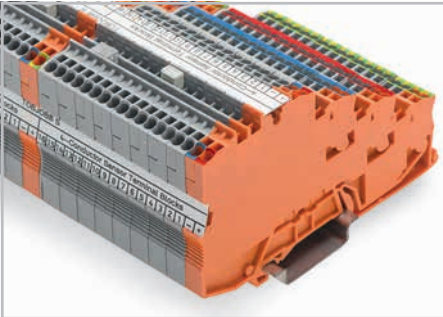
Commoning potential levels via push-in type jumper bars (2000 Series).

Power Supply

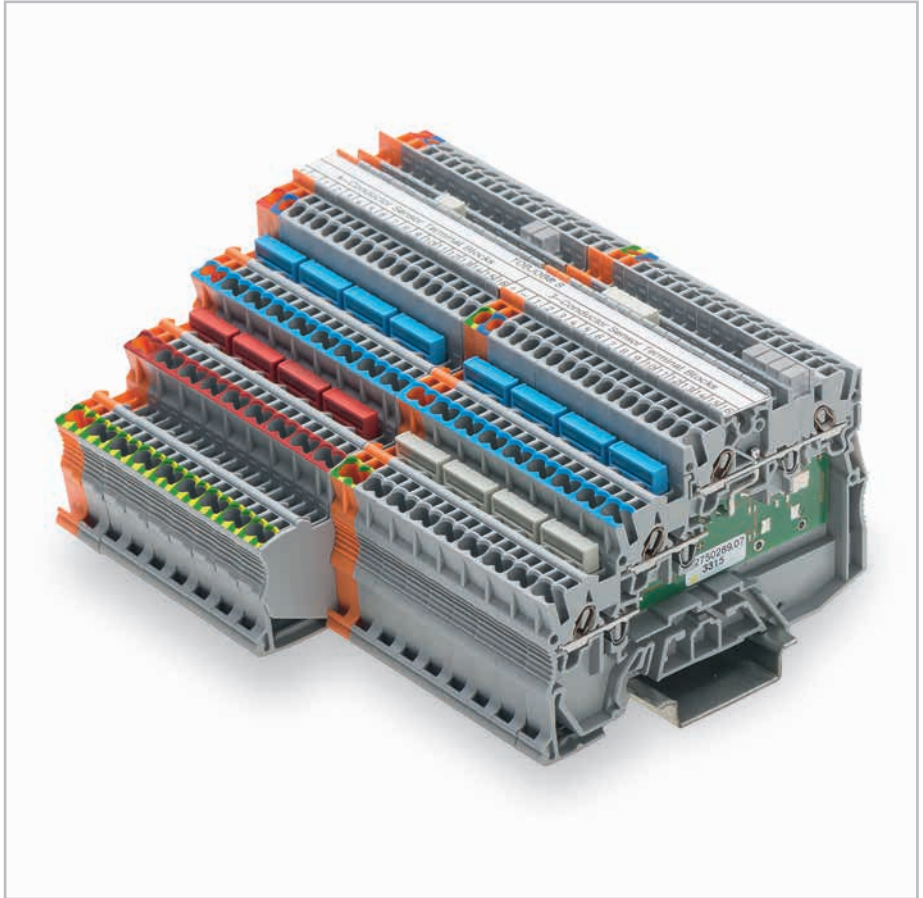


Orange supply terminal block of same profile with a power supply option from both the cabinet and sensor sides

Marking System

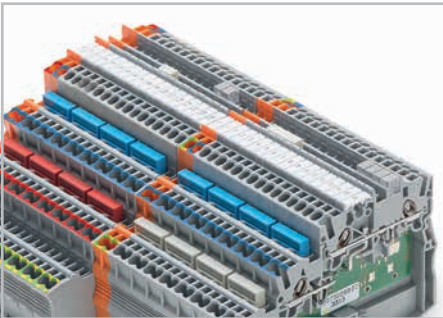


Marking strips (2009-110), marking from the top or the side

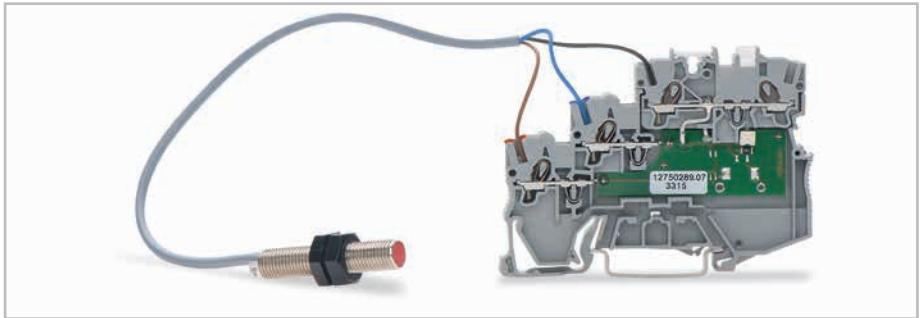


Terminal block assembly with 4-conductor sensor terminal blocks and 3-conductor actuator terminal blocks

Marking System



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



3-conductor sensor LED terminal block with a connected sensor



Push-in CAGE CLAMP® terminates the following copper conductors:*

solid



stranded



fine-stranded, also with tinned single strands

* For aluminum conductors, see notes in Full Line Catalog, Volume 1, Section 14.

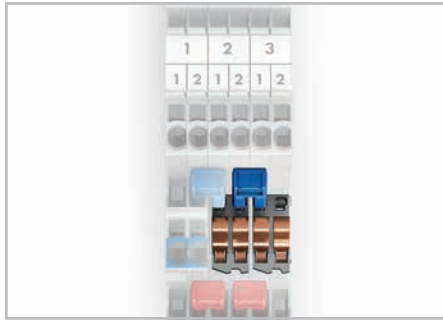
❶ When using ferrules, the max. conductor cross section accommodated is one size smaller than max. rating of terminal block.

- Description and Handling -

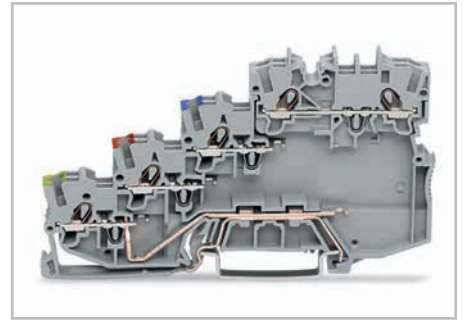
Commoning: Potential Level



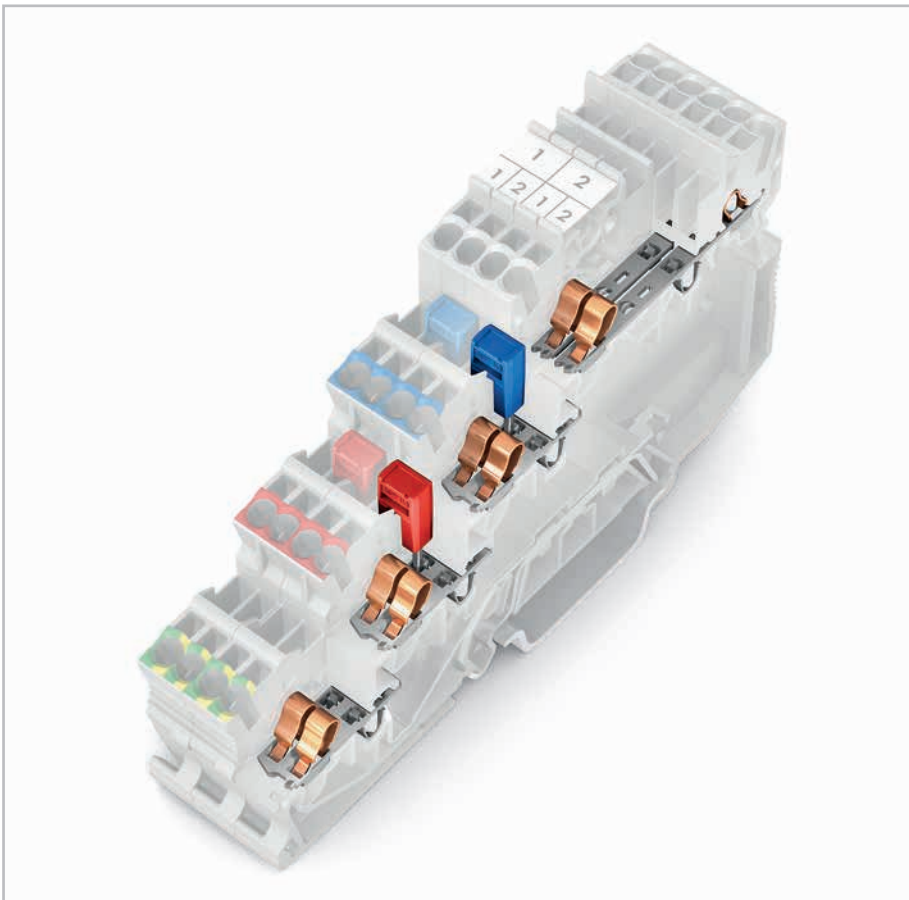
Continuous commoning in the potential levels via push-in type jumper bars for even pole numbers (2000 Series)



Potential levels: two adjacent commoning options on a current bar

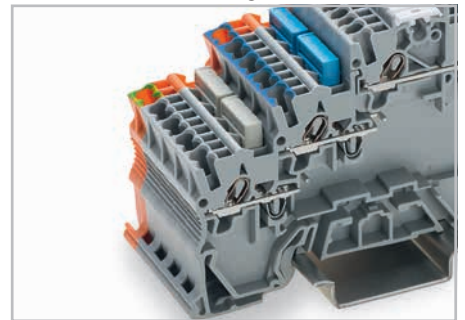


4-conductor sensor terminal block with ground contact



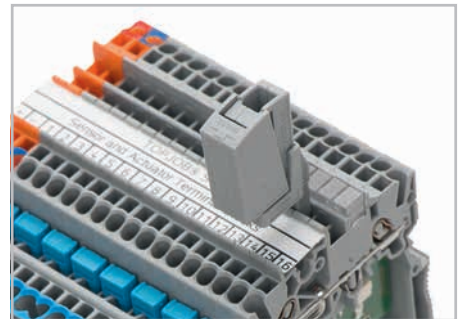
Upper level: two independent signal pathways, in 3.5 mm pin spacing, with a dual jumper slot
Lower levels: two interconnected potential clamping units, with a single jumper slot, can be commoned in both directions

Ground Commoning

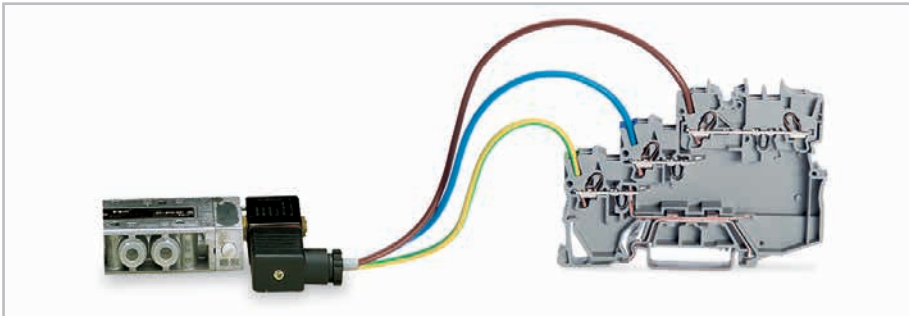


For sensor and actuator terminal blocks without ground connection to the DIN-rail, the ground connection can be performed by commoning to the terminal block with a ground foot.

Testing

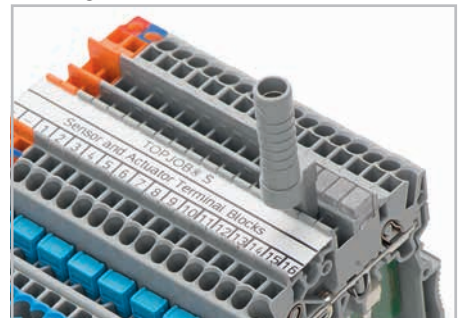


Testing via testing tap (2009-182) (up to max. 42 V)



3-conductor actuator LED terminal block with a connected actuator

Testing



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



fine-stranded, tip-bonded



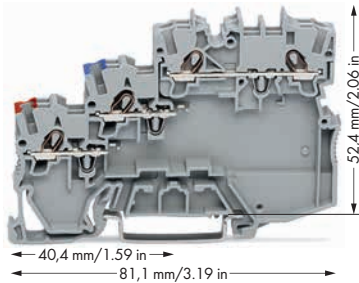
fine-stranded, with ferrule ① (gas-tight crimped)



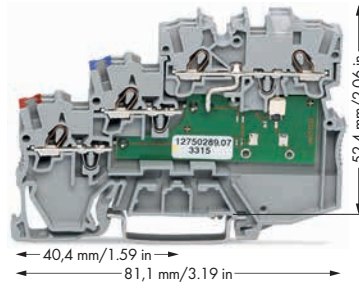
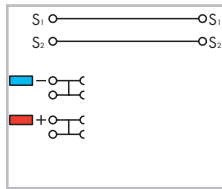
fine-stranded, with pin terminal (gas-tight crimped)

TOPJOB® S 3-Conductor Sensor Terminal Blocks 1 (1.5) mm² 2000 Series

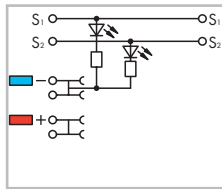
0.14 ... 1 (1.5) mm ² ① 250 V/4 kV/3 ② I _N 13.5 A	AWG 24 ... 16 300 V, 10 A	0.14 ... 1 (1.5) mm ² ① 24 VDC I _N 13.5 A	AWG 24 ... 16 24 VDC, 10 A
Terminal block width 7 mm / 0.276 in ③ 9 ... 11 mm / 0.39 in ④		Terminal block width 7 mm / 0.276 in ③ 9 ... 11 mm / 0.39 in ④	



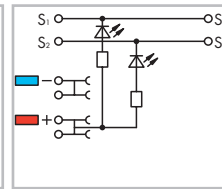
2000-5311



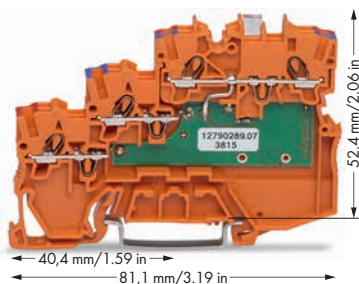
2000-5311/1102-950



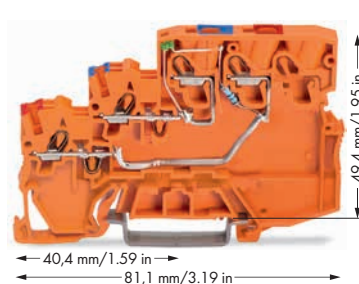
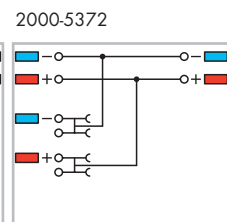
2000-5311/1101-951



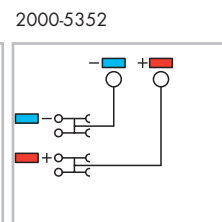
Item No.	Pack. Unit	Item No.	Pack. Unit
3-conductor sensor terminal block		3-conductor sensor LED terminal block, for PNP (high-side) switching sensors, yellow LED	
gray 2000-5311	50	gray 2000-5311/1102-950	50
		3-conductor sensor LED terminal block, for NPN (low-side) switching sensors, yellow LED	
		gray 2000-5311/1101-951	50



2000-5372/1102-953



2000-5352/1102-953



Item No.	Pack. Unit	Item No.	Pack. Unit
3-conductor sensor LED supply terminal block, 24 VDC, green LED		3-conductor sensor LED supply terminal block, 24 VDC, green LED, control panel side: 2.5 (4) mm², max. 28 A	
orange 2000-5372/1102-953	15	orange 2000-5352/1102-953	15
3-conductor sensor supply terminal block, max. 250 V, internal bridge		3-conductor sensor supply terminal block, max. 250 V, control panel side: 2.5 (4) mm², max. 28 A	
orange 2000-5372	15	2000-5352	15

PUSH-IN CAGE CLAMP®

Note:

The double pin spacing of this terminal block series maximizes connectivity. For example ten sensors may be connected using only five sensor terminal blocks plus power supply terminal block.

① Conductor sizes: 0.14 mm² ... 1.5 mm² "s + f-st"; Push-in conductor sizes: 0.5 mm² ... 1.5 mm² "s" and 0.5 mm² ... 0.75 mm² "insulated ferrule, 10 mm"

② 250 V = rated voltage
4 kV = rated surge voltage
3 = pollution degree

(see Full Line Catalog, Volume 1, Section 14)

③ 3.5 mm pin spacing per signal (2 x 3.5 mm = 7 mm)

④ Strip length, see packaging or instructions.

⑤ See application notes in Full Line Catalog, Volume 1, for:
Colored push-in type jumper bars, page 101
Push-in type wire jumper, page 102

Accessories for 4-Conductor Terminal Blocks WMB/Marking strips (see Full Line Catalog, Volume 1, Section 13)

End and intermediate plate, 1 mm thick,	
for 3-conductor terminal blocks	
gray	2000-5391 100 (4x25)

Push-in type jumper bar, insulated,	
⑤ I _N 14 A, light gray	
2-way	2000-402 200 (8x25)
3-way	2000-403 200 (8x25)
4-way	2000-404 200 (8x25)
5-way	2000-405 100 (4x25)
6-way	2000-406 100 (4x25)
7-way	2000-407 100 (4x25)
8-way	2000-408 100 (4x25)
9-way	2000-409 100 (4x25)
10-way	2000-410 100 (4x25)

Colored push-in type jumper bars,	
● red	.../000-005
● blue	.../000-006
● yellow-green	

Push-in type jumper bar, insulated,	
I _N 14 A, light gray	
from 1 to 3	2000-433 200 (8x25)
from 1 to 4	2000-434 200 (8x25)
from 1 to 5	2000-435 100 (4x25)
from 1 to 6	2000-436 100 (4x25)
from 1 to 7	2000-437 100 (4x25)
from 1 to 8	2000-438 100 (4x25)
from 1 to 9	2000-439 100 (4x25)
from 1 to 10	2000-440 100 (4x25)

Double-deck marker carrier,	
pivoting	
gray	2000-121 50 (2x25)

Marking strip, plain,	
11 mm wide, 50 m roll	
white	2009-110 1

WMB Multi marking system,	
10 strips with 10 markers per card, for 3.5 mm terminal block width	
plain	793-3501 5

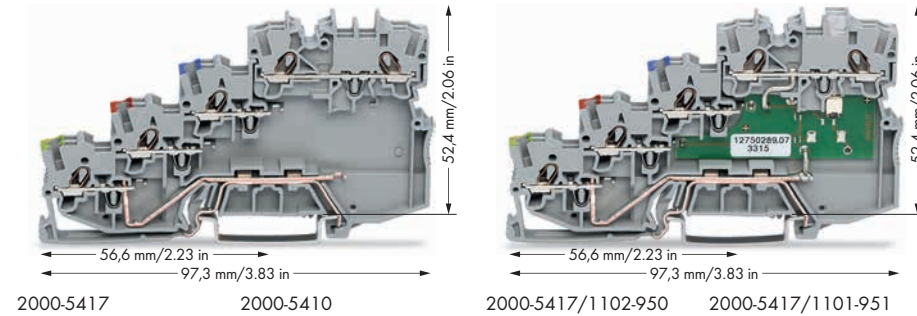
Operating tool with a partially insulated shaft,	
type 1, (2.5 x 0.4) mm blade	
	210-719 1

TOPJOB® S

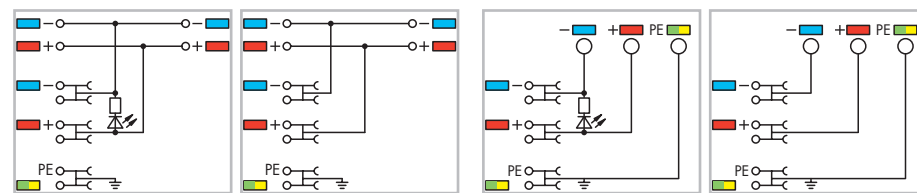
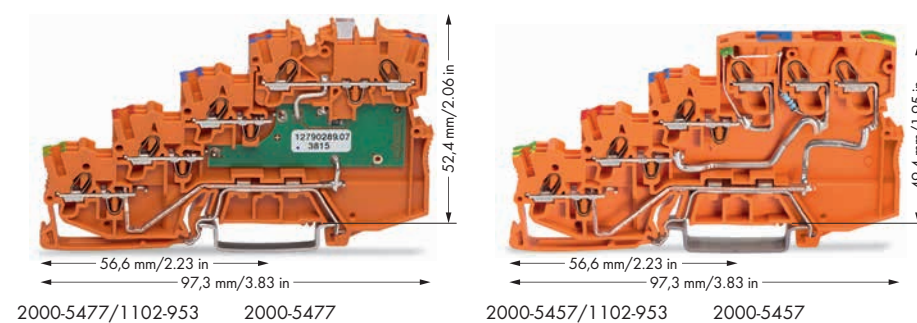
4-Conductor Sensor Terminal Blocks 1 (1.5) mm²

2000 Series

0.14 ... 1 (1.5) mm ² ① 250 V/4 kV/3 ② I _N 13.5 A	AWG 24 ... 16 300 V, 10 A	0.14 ... 1 (1.5) mm ² ① 24 VDC I _N 13.5 A	AWG 24 ... 16 24 VDC, 10 A
Terminal block width 7 mm / 0.276 in ③ 9 ... 11 mm / 0.39 in ④		Terminal block width 7 mm / 0.276 in ③ 9 ... 11 mm / 0.39 in ④	



Item No.	Pack. Unit	Item No.	Pack. Unit
4-conductor sensor terminal block		4-conductor sensor LED terminal block, for PNP (high-side) switching sensors, yellow LED	
gray 2000-5417	50	gray 2000-5417/1102-950	50
gray 2000-5410	50 ⑥	gray 2000-5410/1102-950	50 ⑥
		4-conductor sensor LED terminal block, for NPN (low-side) switching sensors, yellow LED	
		gray 2000-5417/1101-951	50
		gray 2000-5410/1101-951	50 ⑥



Item No.	Pack. Unit	Item No.	Pack. Unit
4-conductor sensor LED supply terminal block, 24 VDC, green LED		4-conductor sensor LED supply terminal block, 24 VDC, green LED, control panel side: 2.5 (4) mm², max. 28 A	
orange 2000-5477/1102-953	15	orange 2000-5457/1102-953	15
4-conductor sensor supply terminal block, max. 250 V, internal bridge		4-conductor sensor supply terminal block, max. 250 V, control panel side: 2.5 (4) mm², max. 28 A	
orange 2000-5477	15	orange 2000-5457	15

Note:
The double pin spacing of this terminal block series maximizes connectivity. For example ten sensors may be connected using only five sensor terminal blocks plus power supply terminal block.

① Conductor sizes: 0.14 mm² ... 1.5 mm² "s + fst"; Push-in conductor sizes: 0.5 mm² ... 1.5 mm² "s" and 0.5 mm² ... 0.75 mm² "insulated ferrule, 10 mm"

② 250 V = rated voltage
4 kV = rated surge voltage
3 = pollution degree
(see Full Line Catalog, Volume 1, Section 14)

③ 3.5 mm pin spacing per signal (2 x 3.5 mm = 7 mm)

④ Strip length, see packaging or instructions.

⑤ See application notes in Full Line Catalog, Volume 1, for:
Colored push-in type jumper bars, page 101
Push-in type wire jumper, page 102

⑥ Ground connection via commoning to terminal blocks with ground foot

Accessories for 4-Conductor Terminal Blocks WMB/Marking strips (see Full Line Catalog, Volume 1, Section 13)

End and intermediate plate, 1 mm thick,	for 4-conductor terminal blocks
gray	2000-5491 100 (4x25)

Push-in type jumper bar, insulated,	I _N 14 A, light gray
⑤ 2-way	2000-402 200 (8x25)
3-way	2000-403 200 (8x25)
4-way	2000-404 200 (8x25)
5-way	2000-405 100 (4x25)
6-way	2000-406 100 (4x25)
7-way	2000-407 100 (4x25)
8-way	2000-408 100 (4x25)
9-way	2000-409 100 (4x25)
10-way	2000-410 100 (4x25)

Colored push-in type jumper bars,	
red	.../000-005
blue	.../000-006
yellow-green	.../000-018

Push-in type jumper bar, insulated,	I _N 14 A, light gray
from 1 to 3	2000-433 200 (8x25)
from 1 to 4	2000-434 200 (8x25)
from 1 to 5	2000-435 100 (4x25)
from 1 to 6	2000-436 100 (4x25)
from 1 to 7	2000-437 100 (4x25)
from 1 to 8	2000-438 100 (4x25)
from 1 to 9	2000-439 100 (4x25)
from 1 to 10	2000-440 100 (4x25)

Double-deck marker carrier,	pivoting
gray	2000-121 50 (2x25)

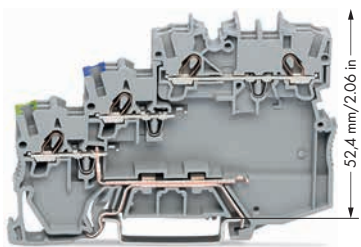
Marking strip, plain,	11 mm wide, 50 m roll
white	2009-110 1

WMB Multi marking system,	10 strips with 10 markers per card, for 3.5 mm terminal block width
plain	793-3501 5

Operating tool with a partially insulated shaft,	type 1, (2.5 x 0.4) mm blade
	210-719 1

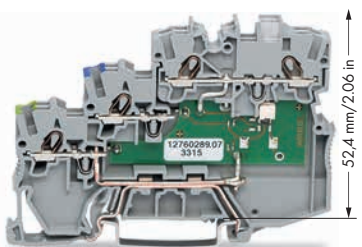
TOPJOB® S 3-Conductor Actuator Terminal Blocks 1 (1.5) mm² 2000 Series

0.14 ... 1 (1.5) mm ² ① 250 V/4 kV/3 ② I _N 13.5 A	AWG 24 ... 16 300 V, 10 A	0.14 ... 1 (1.5) mm ² ① 24 VDC I _N 13.5 A	AWG 24 ... 16 24 VDC, 10 A
Terminal block width 7 mm / 0.276 in ③ 9 ... 11 mm / 0.39 in ④		Terminal block width 7 mm / 0.276 in ③ 9 ... 11 mm / 0.39 in ④	



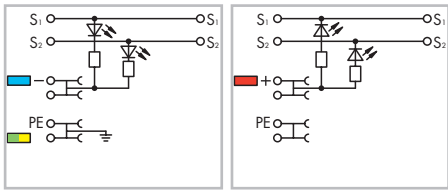
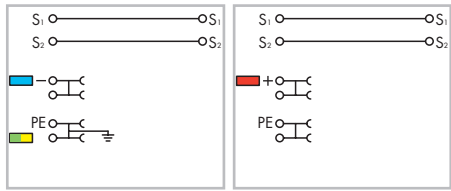
40,4 mm / 1.59 in
81,1 mm / 3.19 in

2000-5317/102-000 2000-5310/101-000

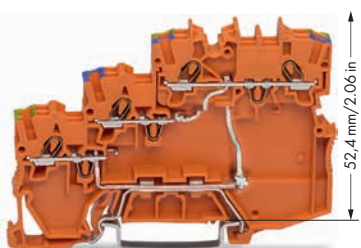


40,4 mm / 1.59 in
81,1 mm / 3.19 in

2000-5317/1102-950 2000-5310/1101-951

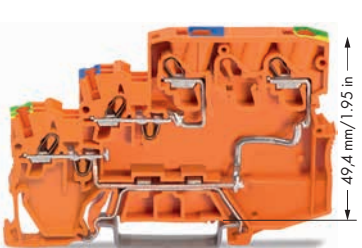


Item No.	Pack. Unit	Item No.	Pack. Unit
3-conductor actuator terminal block, for PNP (high-side) switching actuators, with ground connection		3-conductor actuator LED terminal block, for PNP (high-side) switching actuators, yellow LED, with ground connection	
gray	2000-5317/102-000 50	gray	2000-5317/1102-950 50
gray	2000-5310/102-000 50 ⑥	gray	2000-5310/1102-950 50 ⑥
3-conductor actuator terminal block, for NPN (low-side) switching actuators		3-conductor actuator LED terminal block, for NPN (low-side) switching actuators, yellow LED	
gray	2000-5317/101-000 50	gray	2000-5317/1101-951 50
gray	2000-5310/101-000 50 ⑥	gray	2000-5310/1101-951 50 ⑥



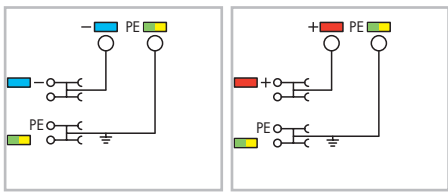
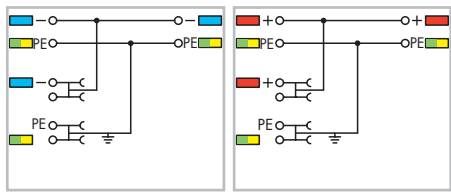
40,4 mm / 1.59 in
81,1 mm / 3.19 in

2000-5377/102-000 2000-5377/101-000



40,4 mm / 1.59 in
81,1 mm / 3.19 in

2000-5357/102-000 2000-5357/101-000



Item No.	Pack. Unit	Item No.	Pack. Unit
3-conductor actuator supply terminal block, max. 250 V, for PNP (high-side) switching actuators, with ground connection, internal bridge		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	
orange	2000-5377/102-000 15	orange	2000-5357/102-000 15
3-conductor actuator supply terminal block, max. 250 V, for NPN (low-side) switching actuators, with ground connection		3-conductor actuator supply terminal block, 24 VDC, control panel side: 2.5 (4) mm², max. 28 A, for NPN (low-side) switching actuators, with ground connection	
orange	2000-5377/101-000 15	orange	2000-5357/101-000 15

PUSH-IN CAGE CLAMP®

Note:
The double pin spacing of this terminal block series maximizes connectivity. For example ten sensors may be connected using only five sensor terminal blocks plus power supply terminal block.

① Conductor sizes: 0.14 mm² ... 1.5 mm² "s + f.st"; Push-in conductor sizes: 0.5 mm² ... 1.5 mm² "s" and 0.5 mm² ... 0.75 mm² "insulated ferrule, 10 mm"

② 250 V = rated voltage
4 kV = rated surge voltage
3 = pollution degree
(see Full Line Catalog, Volume 1, Section 14)

③ 3.5 mm pin spacing per signal (2 x 3.5 mm = 7 mm)

④ Strip length, see packaging or instructions.

⑤ See application notes in Full Line Catalog, Volume 1, for:
Colored push-in type jumper bars, page 101
Push-in type wire jumper, page 102

⑥ Ground connection via commoning to terminal blocks with ground foot

Accessories for 4-Conductor Terminal Blocks WMB/Marking strips (see Full Line Catalog, Volume 1, Section 13)

End and intermediate plate, 1 mm thick,

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

Push-in type jumper bar, insulated,

⑤ I_N 14 A, light gray

2-way	2000-402	200 (8x25)
3-way	2000-403	200 (8x25)
4-way	2000-404	200 (8x25)
5-way	2000-405	100 (4x25)
6-way	2000-406	100 (4x25)
7-way	2000-407	100 (4x25)
8-way	2000-408	100 (4x25)
9-way	2000-409	100 (4x25)
10-way	2000-410	100 (4x25)

Colored push-in type jumper bars,

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

Push-in type jumper bar, insulated,

I_N 14 A, light gray

from 1 to 3	2000-433	200 (8x25)
from 1 to 4	2000-434	200 (8x25)
from 1 to 5	2000-435	100 (4x25)
from 1 to 6	2000-436	100 (4x25)
from 1 to 7	2000-437	100 (4x25)
from 1 to 8	2000-438	100 (4x25)
from 1 to 9	2000-439	100 (4x25)
from 1 to 10	2000-440	100 (4x25)

Double-deck marker carrier,

pivoting	gray	2000-121	50 (2x25)
----------	------	----------	-----------

Marking strip, plain,

11 mm wide, 50 m roll	white	2009-110	1
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WMB Multi marking system,

10 strips with 10 markers per card, for 3.5 mm terminal block width	plain	793-3501	5
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Operating tool with a partially insulated shaft,

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

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