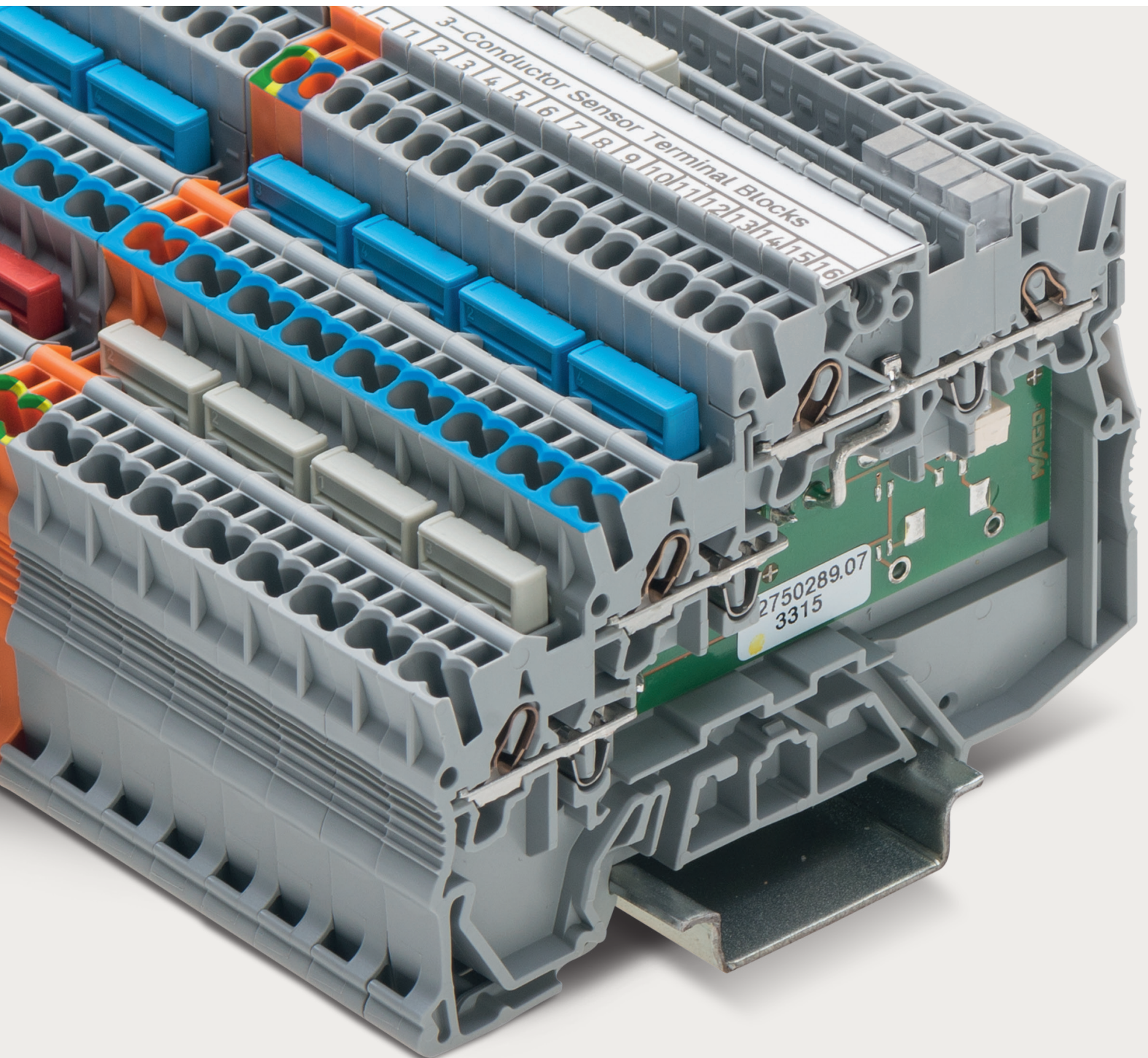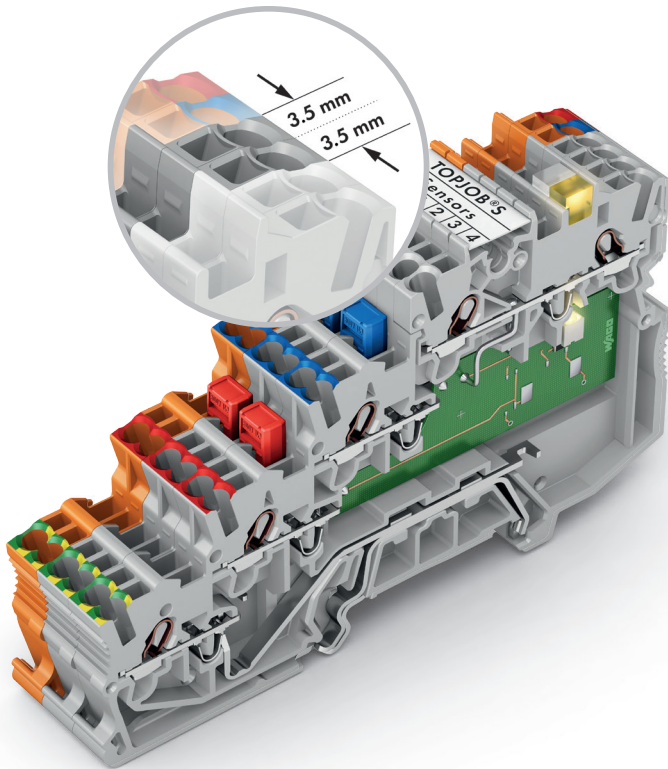# TOPJOB® S –
Sensor/Actuator Terminal Blocks
with Push-in CAGE CLAMP® Reliability

TOPJOB® S –
SEND THE RIGHT SIGNALS
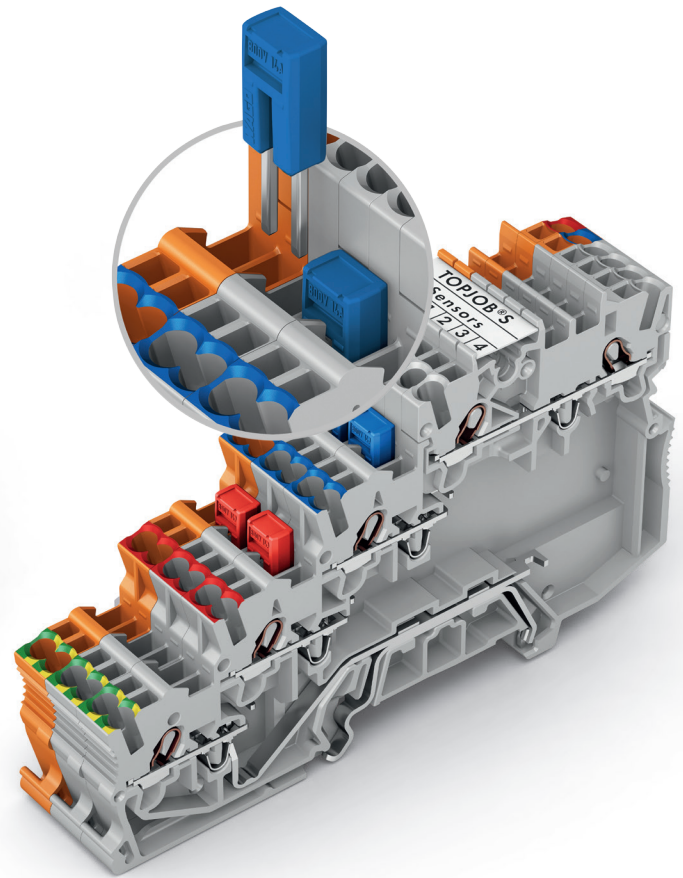
**TOPJOB® S – Sensor/Actuator Terminal Blocks
with Push-in CAGE CLAMP® Reliability**

TWO IN ONE.

WITH ALL OPTIONS COVERED.

For the Highest Signal Density

- Pack many sensors into the smallest possible
  space using only 3.5 mm per sensor on the DIN-rail
- Solder tabs for PCB allow creation of custom
  versions with electronic fusing, relay functions
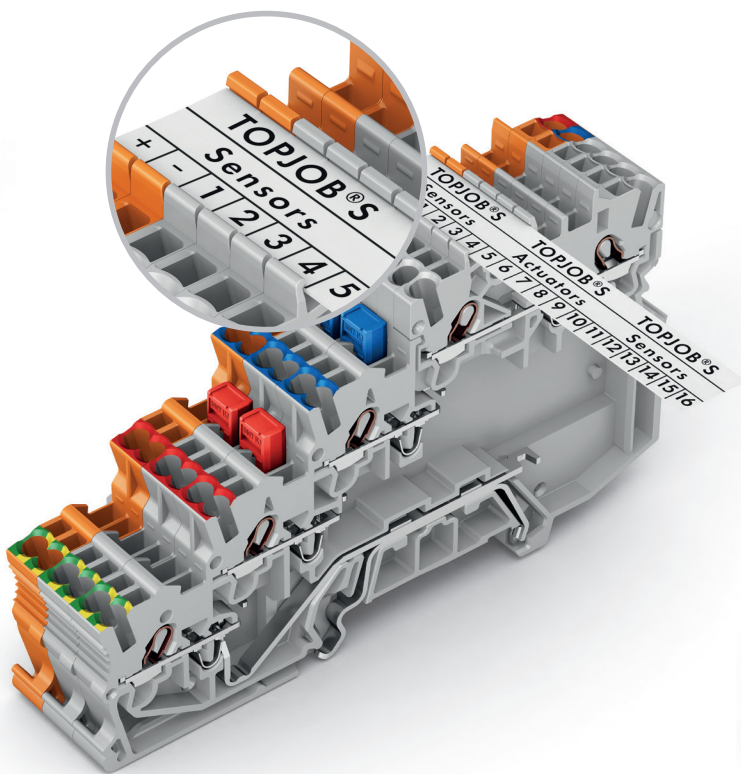 and more. Contact factory

Range of Multifunctional Jumpers

- Commoning with standard jumpers - no limitation[1]
  on the number of blocks to be commoned
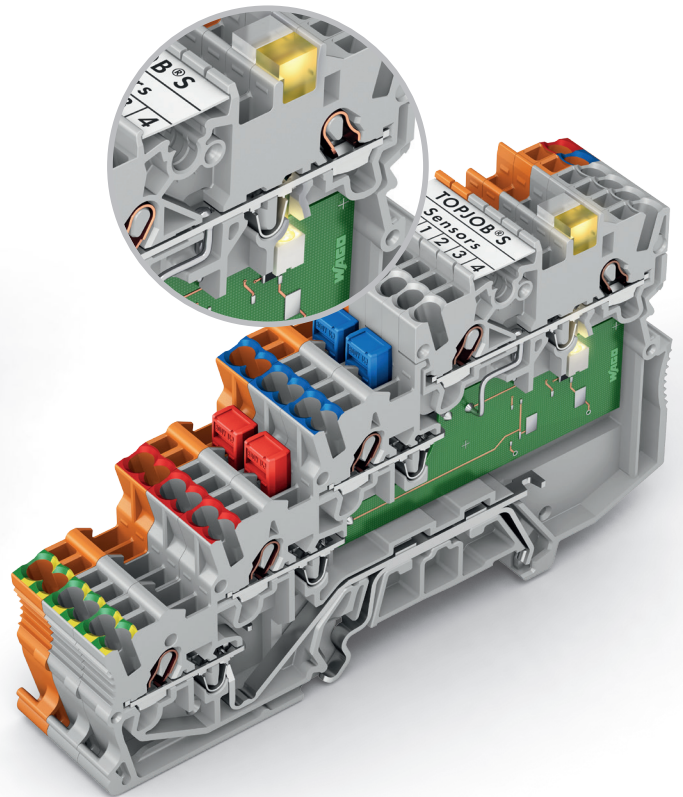- Color-coded jumpers easily identify
  different potentials

[1] current consumption must be considered.

KEEP YOUR COSTS IN LINE.

Fastest Marking System

- Clear identification due to multi-line marking strips without covering the jumper slot
- Easy to read from any angle with two marker slots – one on top and one on the side of the terminal block

KEEP SAFETY IN SIGHT.

LED, Wiring and Marking in Plain View

- Indicator LEDs, jumpers and markers are always visible – even when wired
- Streamlined terminal block design provides quick wiring overview and a simplified control layout

FOR THE HIGHEST SIGNAL DENSITY

The sensor/actuator terminal blocks feature several potential levels and one signal level. The potential levels are for power supply and if necessary, sensor grounding or shielding. The signal level is for signal transmission from sensors or to actuators.

A single terminal block housing accommodates two sensors or actuators. Each potential level shares a common current bar - 2 terminals per level. The signal level has two separate current bars - 2 independent signal paths, each with a width of 3.5 mm.

Signal Level

Potential Levels

Two separate current bars

One common current bar on each level
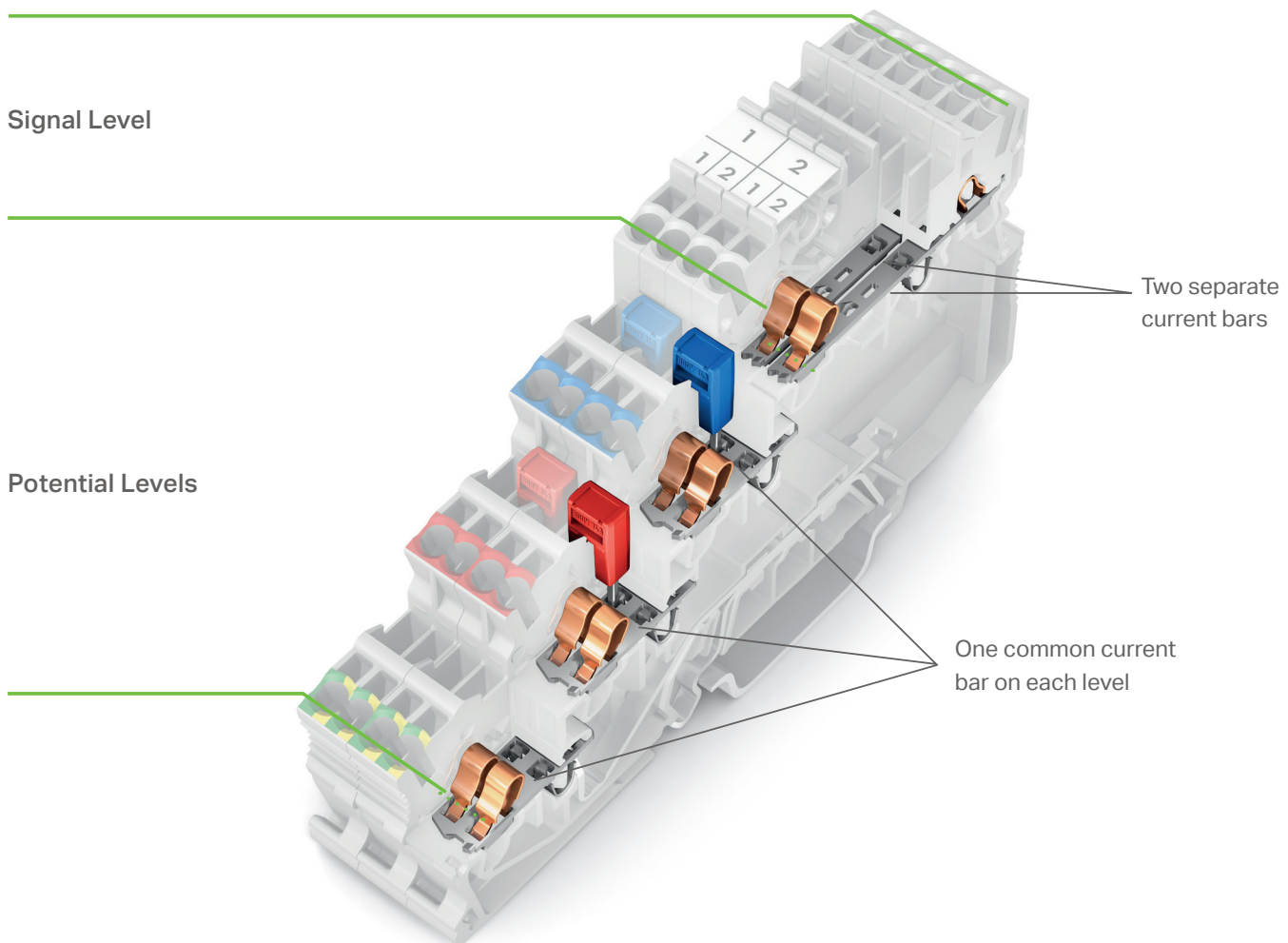
Potential Levels

- Power supply and, if necessary, sensor grounding or shielding of the sensors/actuators is performed on the potential levels
- Each level has two connections per current bar
- Continuous commoning is possible - no limitation[1] on the number of blocks that can be commoned
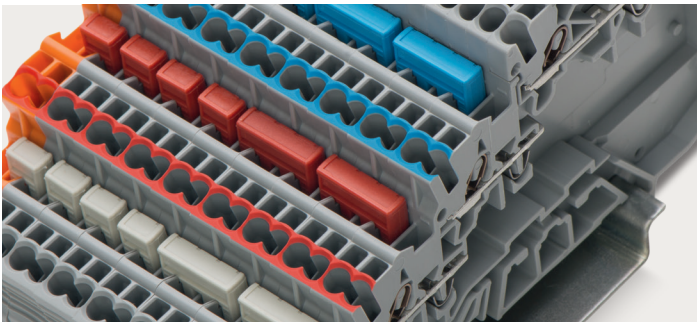
Signal Level

- The signal level transmits signals from 2 sensors or to 2 actuators in a single terminal block.

[1] current consumption must be considered.

RANGE OF MULTIFUNCTIONAL JUMPERS

When using TOPJOB® S sensor/actuator terminal blocks, standard 2000 Series jumpers provide the right solution for all commoning tasks.

These jumpers can be used universally on both the potential levels and the signal level.

Commoning Potential Levels
On the potential level, standard jumpers can be used for commoning with no limitation. Each terminal block has two internally commoned jumper slots. This allows an unlimited number[1] of terminal blocks to be commoned with the use of even pole count jumpers.
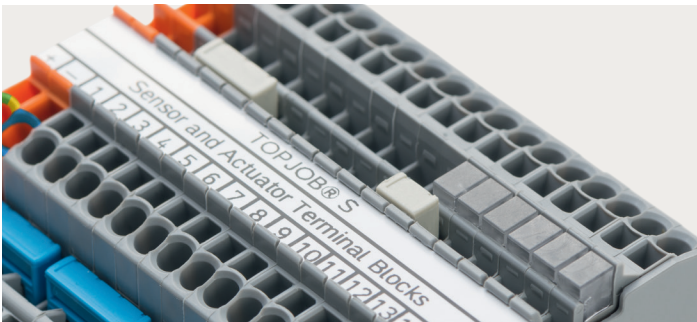

Commoning Signal Level
Two jumper slots are available on the signal level for commoning with standard jumpers. This level features two independent signal paths. Terminal block versions with an LED have only one jumper slot for testing or commoning.
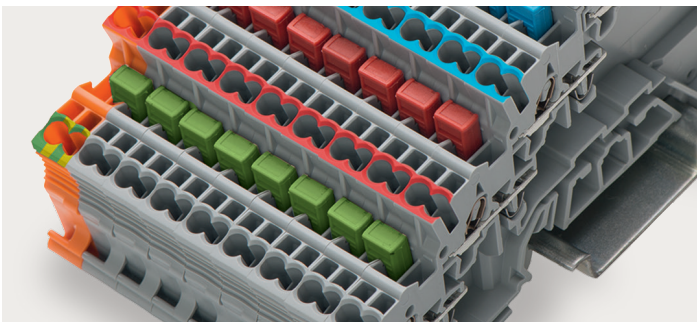
Ground Commoning
For sensor/actuator terminal blocks without ground connection to the DIN-rail, a ground connection can be made by commoning the ground connection (green/yellow) from the supply terminal block to the adjacent sensor/actuator terminal block.
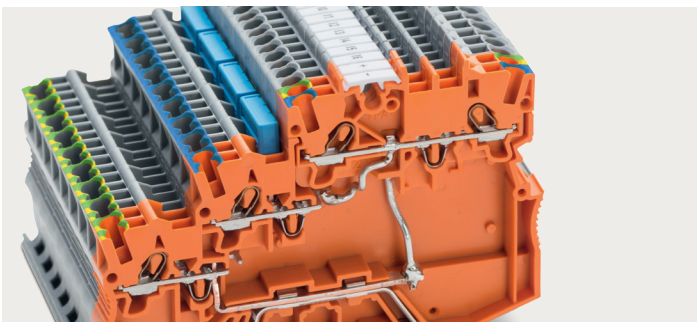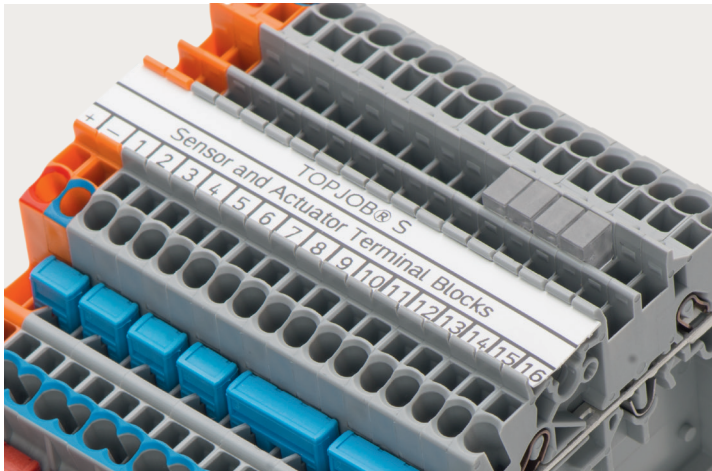

Power Supply
Orange power supply terminal blocks with the same profile can be placed in the center of the assembly to distribute power left and right, or on either end of the assembly. They are available in cross sections up to 4 mm^2 / 12 AWG.

[1] current consumption must be considered.
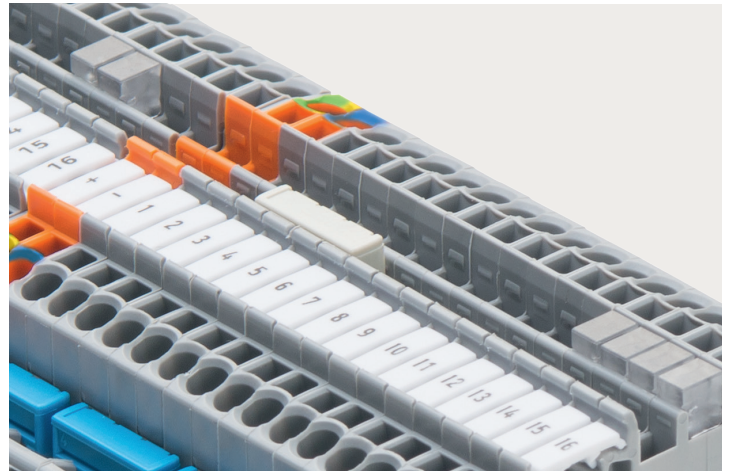
FASTEST MARKING SYSTEM

Marking Strips

The continuous marking strips (2009-110) offer the industry's fastest and most versatile marking system. The multi-line marking feature is an industry first and allows individual signals, as well as groups, to be easily identified.
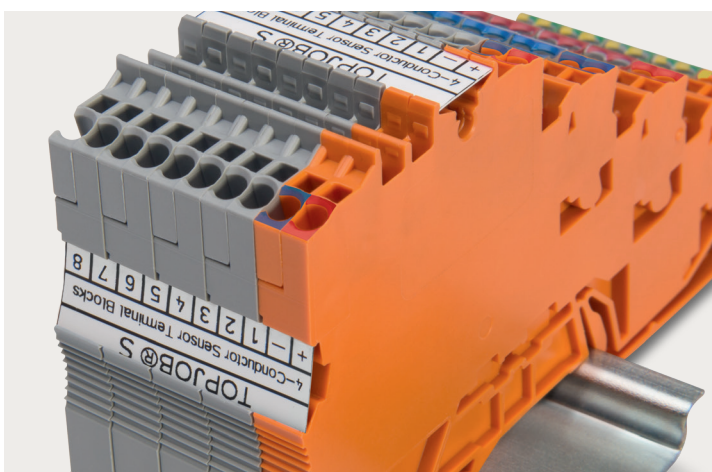
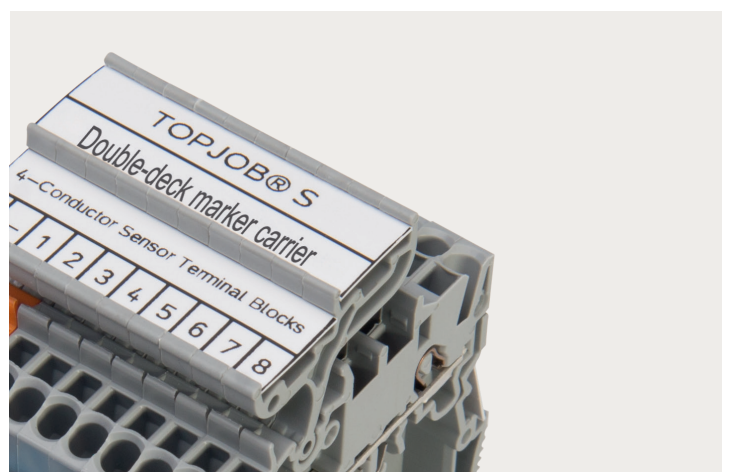See it in action: www.smartprinter.us/video

WMB Markers

Marking using 3.5 mm WMB markers is also possible. They are available as WMB Inline markers on a reel (2009-113) and as WMB marking cards (793-35xx).

Marking Levels

TOPJOB® S sensor/actuator terminal blocks can be marked on the top and on the side without covering the jumper slot.
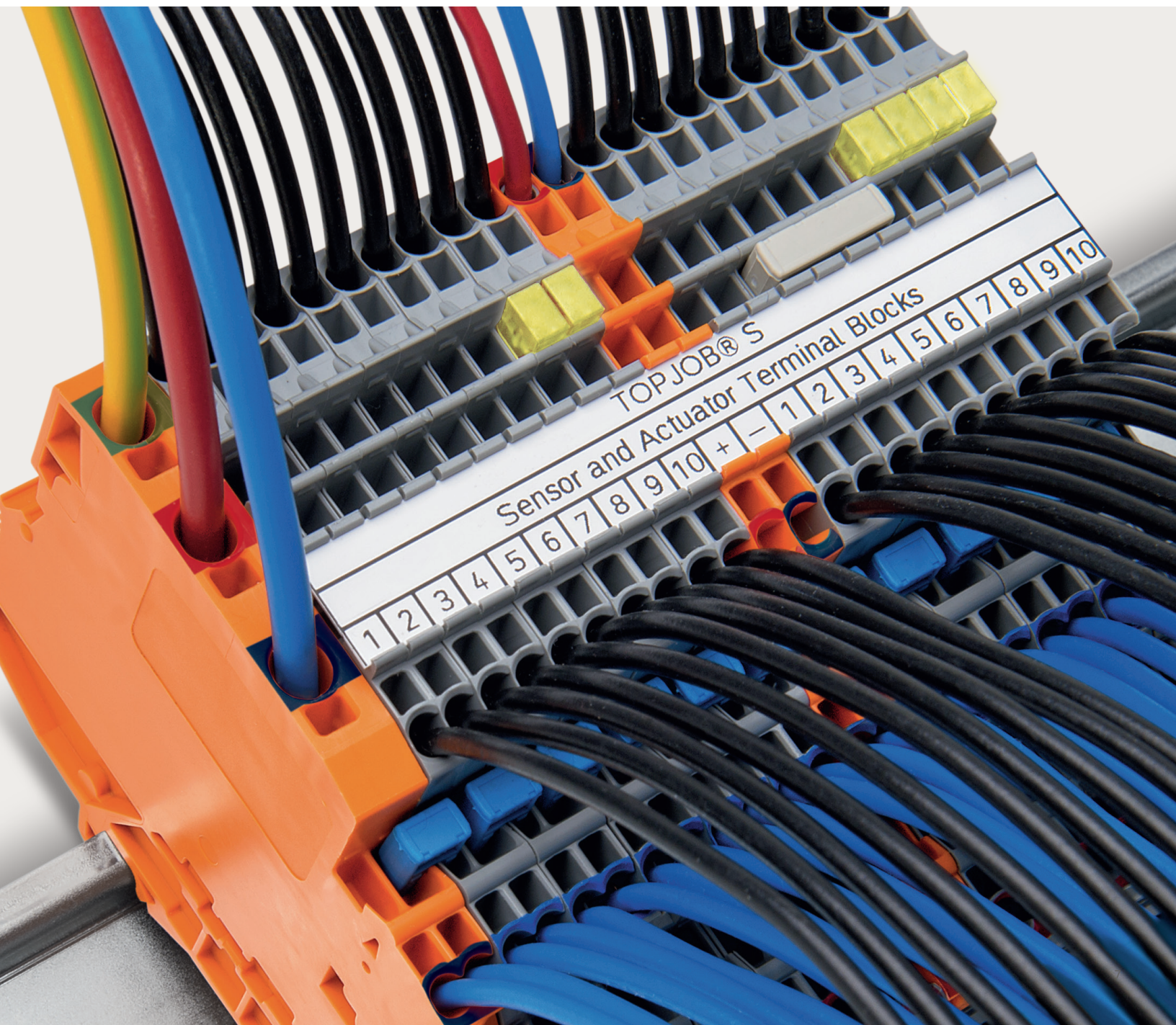
Marker Carrier

A pivoting marker carrier (2000-121) can be snapped in as a retrofit for marking additional levels.

LED, WIRING AND MARKING IN PLAIN VIEW

TOPJOB® S sensor/actuator terminal blocks provide a fast overview – even when wired. Both a center LED, as well as commoning and marking on the signal level quickly tell you what you need to know.
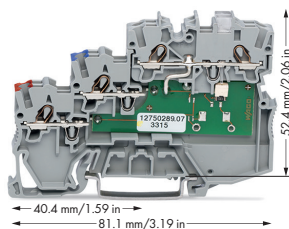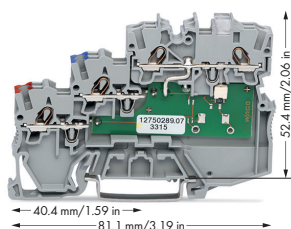
- The streamlined terminal block design, as well as color-coded conductor entries and jumpers, provide a quick wiring overview and a simplified control layout.
- LEDs, jumpers and markers are always visible – even when wired.

0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 in. ❸	
9 … 11 mm / 0.39 in. ❹	

52.4 mm/2.06 in
40.4 mm/1.59 in
81.1 mm/3.19 in

2000-5311

Item No.	Pack. Unit
3-conductor sensor terminal block	
● gray **2000-5311**	50

0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
24 VDC	24 VDC, 10 A
I_N 13.5 A	
Terminal block width: 7 mm / 0.276 in. ❸	
9 … 11 mm / 0.39 in. ❹	

52.4 mm/2.06 in
40.4 mm/1.59 in
81.1 mm/3.19 in

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

Item No.	Pack. Unit
3-conductor sensor LED terminal block,	
for **PNP (high-side)** switching sensors, yellow LED	
● 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

52.4 mm/2.06 in
40.4 mm/1.59 in
81.1 mm/3.19 in
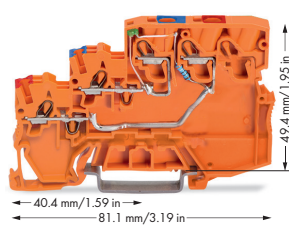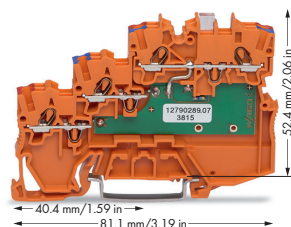
2000-5372/1102-953   **2000-5372**

Item No.	Pack. Unit
3-conductor sensor LED supply terminal block,	
24 VDC, green LED	
● orange **2000-5372/1102-953**	15
3-conductor sensor supply terminal block,	
max. 250 V, internal commoning	
● orange **2000-5372**	15

49.4 mm/1.95 in
40.4 mm/1.59 in
81.1 mm/3.19 in

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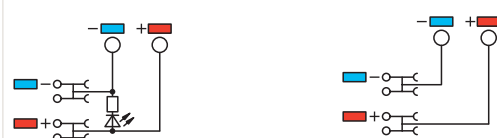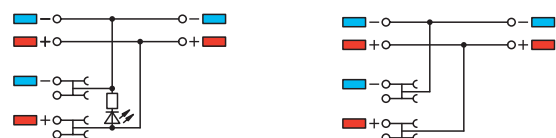
Item No.	Pack. Unit
3-conductor sensor LED supply terminal block,	
24 VDC, green LED, control panel side: 2.5 (4) mm², max. 28 A	
● orange **2000-5352/1102-953**	15
3-conductor sensor supply terminal block,	
max. 250 V, control panel side: 2.5 (4) mm², max. 28 A	
● orange **2000-5352**	15

4-Conductor Sensor Terminal Blocks 16 AWG, 2000 Series

0.14 … 1 (1.5) mm² ❶	24 … 16 AWG	0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A	24 VDC	24 VDC, 10 A
I_N 13.5 A		I_N 13.5 A	
Terminal block width: 7 mm / 0.276 in. ❸		Terminal block width: 7 mm / 0.276 in. ❸	
9 … 11 mm / 0.39 in. ❹		9 … 11 mm / 0.39 in. ❹	

52.4 mm/2.06 in
56.6 mm/2.23 in
97.3 mm/3.83 in

52.4 mm/2.06 in
56.6 mm/2.23 in
97.3 mm/3.83 in

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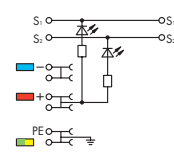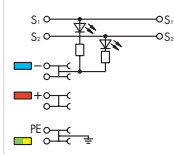
Item No.	Pack. Unit	Item No.	Pack. Unit
4-conductor sensor terminal block, with ground connection		**4-conductor sensor LED terminal block,** for **PNP (high-side)** switching sensors, yellow LED, with ground connection	
⚪ gray **2000-5417**	50	⚪ gray **2000-5417/1102-950**	50
⚪ gray **2000-5410**	❺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

52.4 mm/2.06 in
56.6 mm/2.23 in
97.3 mm/3.83 in

49.4 mm/1.95 in
56.6 mm/2.23 in
97.3 mm/3.83 in
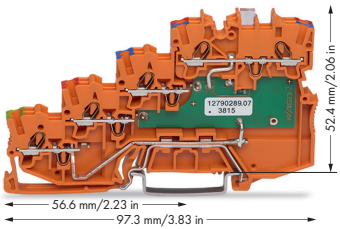
2000-5477/1102-953	2000-5477	2000-5457/1102-953	2000-5457
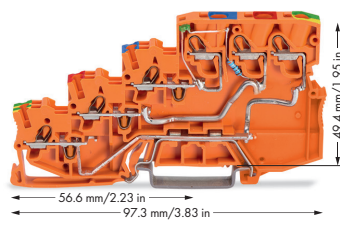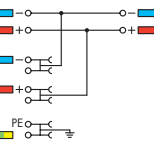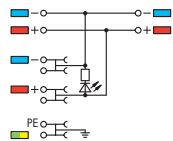
Item No.	Pack. Unit	Item No.	Pack. Unit
4-conductor sensor LED supply terminal block, 24 VDC, green LED, with ground connection		**4-conductor sensor LED supply terminal block,** 24 VDC, green LED, with ground connection, control panel side: 2.5 (4) mm², max. 28 A	
🟠 orange **2000-5477/1102-953**	15	🟠 orange **2000-5457/1102-953**	15
4-conductor sensor supply terminal block, max. 250 V, internal commoning, with ground connection		**4-conductor sensor supply terminal block,** max. 250 V, with ground connection, control panel side: 2.5 (4) mm², max. 28 A	
🟠 orange **2000-5477**	15	🟠 orange **2000-5457**	15

❶
Conductor sizes: 24 - 16 AWG
(0.14 - 1.5mm²) solid or stranded
Push-in conductor sizes:
0.5 - 1.5mm² (20 - 16 AWG) solid
or 20 - 18 AWG (0.5 - 0.75mm²)
ferruled (10mm long ferrule)

❷
250 V = Rated voltage
4 kV = Rated impulse voltage
3 = Degree of pollution
(see Full Line Catalog 1,
Section 14)

❸
3.5 mm spacing per signal
(2 x 3.5 mm = 7 mm)

Note: The double spacing
per pole of this terminal block
series maximizes connec-
tivity. For example, ten sensors
may be connected using only
five sensor terminal blocks
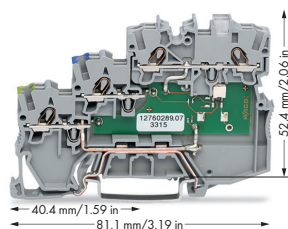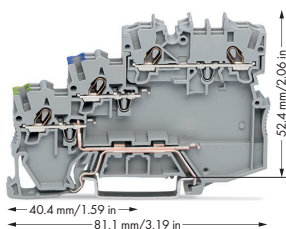plus a power supply terminal
block.

❹
Strip length, see packaging or
instructions.

❺
Ground connection via
commoning to terminal blocks
with ground foot

0.14 … 1 (1.5) mm² ❶	24 … 16 AWG	0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A	24 VDC	24 VDC, 10 A
I_N 13.5 A		I_N 13.5 A	
Terminal block width: 7 mm / 0.276 in. ❸		**Terminal block width: 7 mm / 0.276 in.** ❸	
▭▱ **9 … 11 mm / 0.39 in.** ❹		▭▱ **9 … 11 mm / 0.39 in.** ❹	

52.4 mm/2.06 in — 40.4 mm/1.59 in — 81.1 mm/3.19 in

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

52.4 mm/2.06 in — 40.4 mm/1.59 in — 81.1 mm/3.19 in

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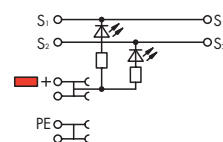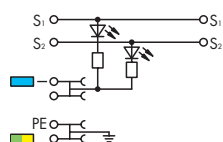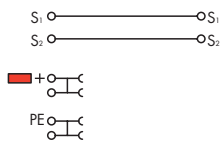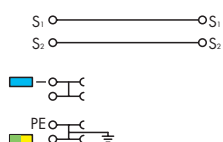
Item No.	Pack. Unit	Item No.	Pack. Unit
3-conductor actuator terminal block, for **PNP (high-side)**		**3-conductor actuator LED terminal block,** for **PNP (high-side)**	
switching actuators, with ground connection		switching actuators, yellow LED, with ground connection	
● gray **2000-5317/102-000**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

52.4 mm/2.06 in — 40.4 mm/1.59 in — 81.1 mm/3.19 in
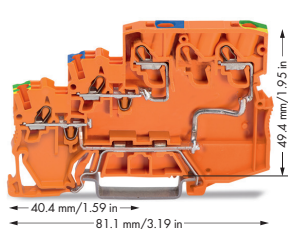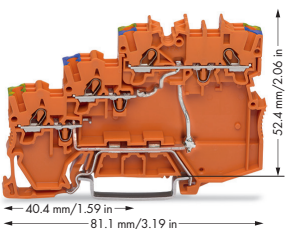
2000-5377/102-000 | 2000-5377/101-000

49.4 mm/1.95 in — 40.4 mm/1.59 in — 81.1 mm/3.19 in

2000-5357/102-000 | 2000-5357/101-000
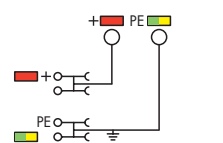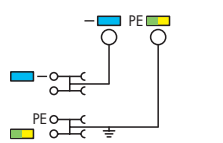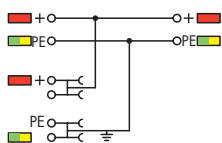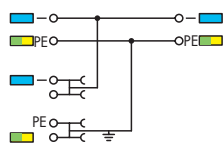
Item No.	Pack. Unit	Item No.	Pack. Unit
3-conductor actuator supply terminal block,		**3-conductor actuator supply terminal block,** max. 250 V,	
max. 250 V, for **PNP (high-side)** switching actuators,		control panel side: 2.5 (4) mm²/12 AWG, max. 28 A, for **PNP (high-side)**	
with ground connection, internal commoning		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,		**3-conductor actuator LED supply terminal block,** 24 VDC,	
for **NPN (low-side)** switching actuators, with ground connection		control panel side: 2.5 (4) mm²/12 AWG, max. 28 A, for **NPN (low-side)**	
		switching actuators, with ground connection	
● orange **2000-5377/101-000**	15	● orange **2000-5357/101-000**	15

Accessories

End Plates

End and intermediate plates, 1 mm thick

	Item No.	Pack. Unit
for 3-conductor terminal blocks		
● gray	**2000-5391**	100 (4x25)
for 4-conductor terminal blocks		
● gray	**2000-5491**	100 (4x25)

Jumpers

Push-in type jumper bars, insulated

	Item No.	Pack. Unit
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

	Item No.	Pack. Unit
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

	Item No.	Pack. Unit
I_N 9 A, 0.75 mm² 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

Double-deck marker carrier,

	Item No.	Pack. Unit
pivoting		
● gray	**2000-121**	50 (2x25)

Marking strip, plain,

	Item No.	Pack. Unit
11 mm wide, 50 m roll		
○ white	**2009-110**	1

WMB Inline, plain,

	Item No.	Pack. Unit
2,300 WMB markers (3.5 mm) on roll		
○ white	**2009-113**	1

WMB Multi Marking System, plain

	Item No.	Pack. Unit
10 strips with 10 markers per card		
for 3.5 mm terminal block width		
○ white	**793-3501**	5

***smart*PRINTER**

	Item No.	Pack. Unit
	258-5000	1
More information at www.smartprinter.us		

Carrier Rails

Carrier rails, steel
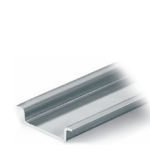
	Item No.	Pack. Unit
I_N 76 A (reference length of 1 m)		
35 x 7.5 mm, 1 mm thick, 2 m long		
unslotted	**210-113**	10
slotted	**210-112**	10 (10x1)
Hole width: 25 mm; hole spacing: 36 mm		
slotted	**210-115**	1
Hole width: 18 mm; hole spacing: 25 mm		

Carrier rail, aluminum
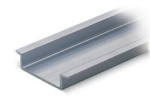
	Item No.	Pack. Unit
I_N 76 A (reference length of 1 m)		
35 x 8.2 mm, 1.6 mm thick, 2 m long		
unslotted	**210-196**	10

End stops

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

Testing Accessories

Testing tap

	Item No.	Pack. Unit
for max. 2.5 mm²		
gray	**2009-182**	100 (4x25)

Test plug adapter

	Item No.	Pack. Unit
for 4 mm Ø test plug		
gray	**2009-174**	100 (4x25)

Banana plugs

	Item No.	Pack. Unit
for 4 mm Ø socket,		
color mixed		
	215-111	50

Tools

"Quickstrip 10" wire stripper

	Item No.	Pack. Unit
	206-124	1

"Variocrimp 4" crimping tool

	Item No.	Pack. Unit
0.25 … 4 mm²		
	206-204	1

Insulated ferrules, extra long,

	Item No.	Pack. Unit
0.5 mm²	**216-241**	1000
0.75 mm²	**216-242**	1000
For 2.5 (4) mm² supply terminal blocks:		
1 mm²	**216-243**	1000
1.5 mm²	**216-244**	1000
2.5 mm²	**216-246**	1000

Operating tool with a partially insulated shaft,

	Item No.	Pack. Unit
type 1, (2.5 x 0.4) mm blade		
	210-719	1

WE INNOVATE!

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