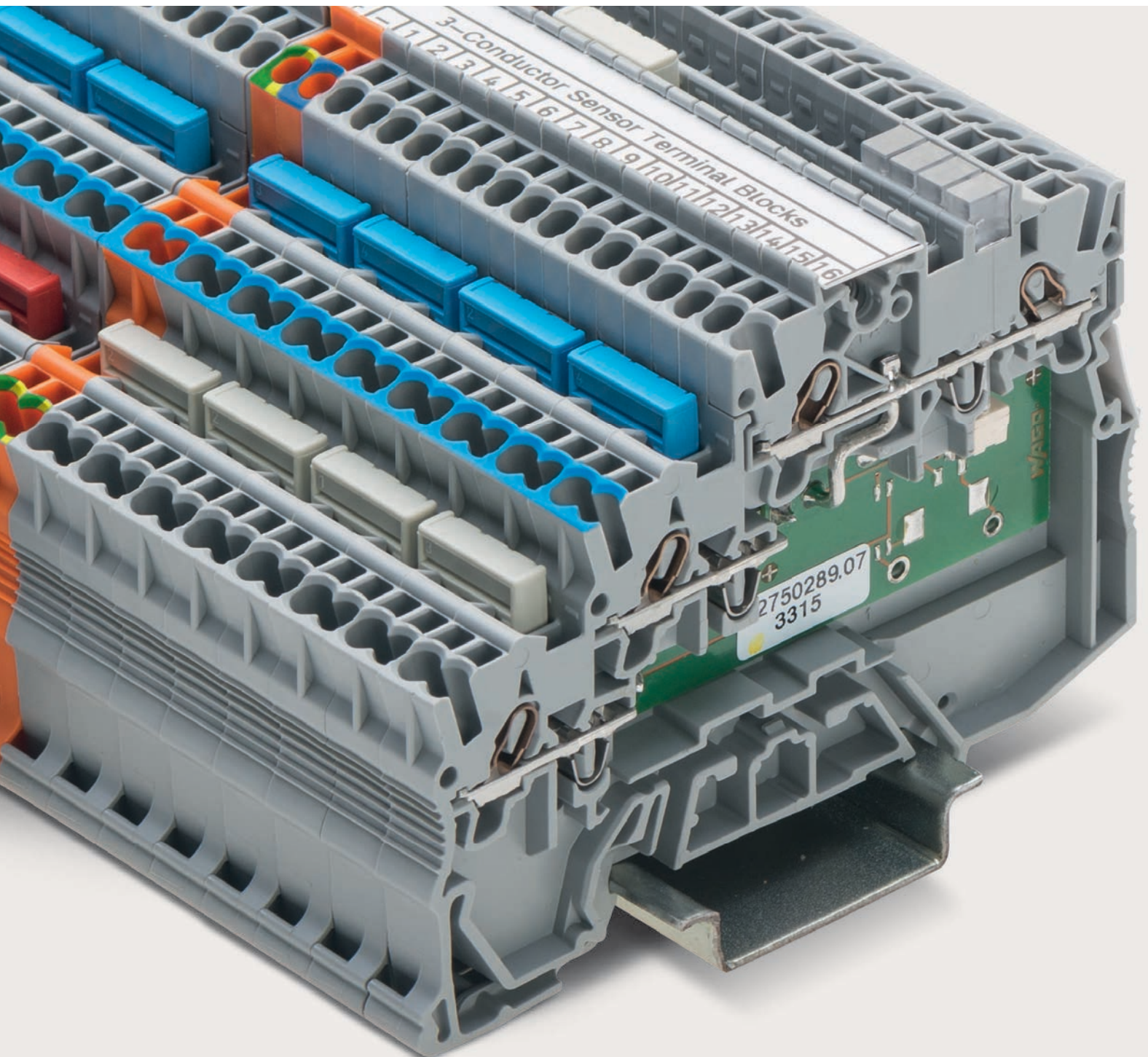
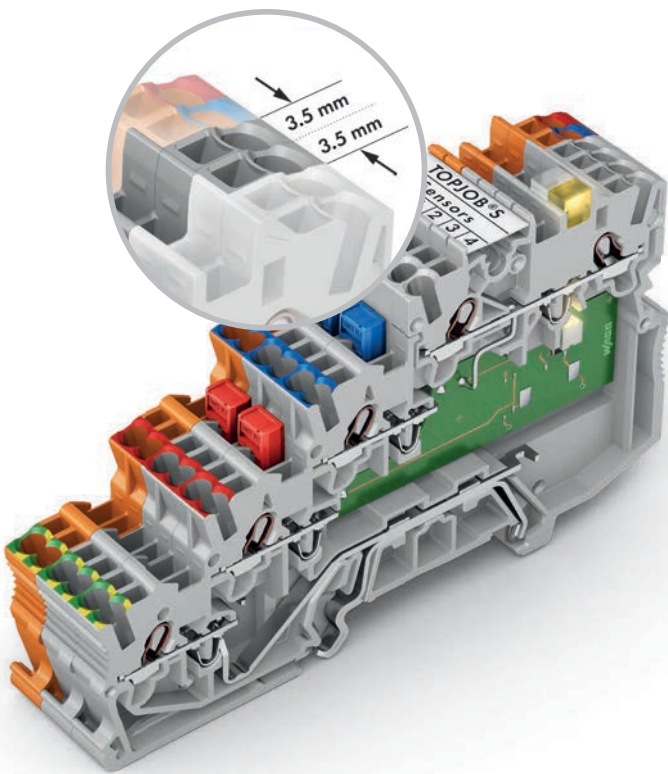


TOPJOB® S –
Sensor/Actuator Terminal Blocks
with Push-in CAGE CLAMP® Reliability



TOPJOB® S – SEND THE RIGHT SIGNALS

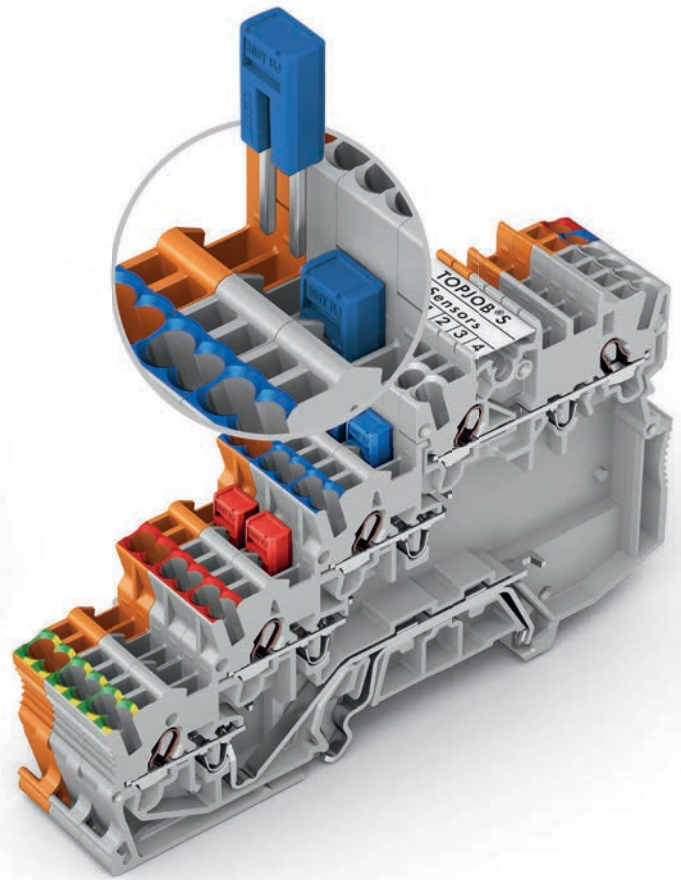
TOPJOB® S – Sensor/Actuator Terminal Blocks
with Push-in CAGE CLAMP® Reliability



TWO IN ONE.

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

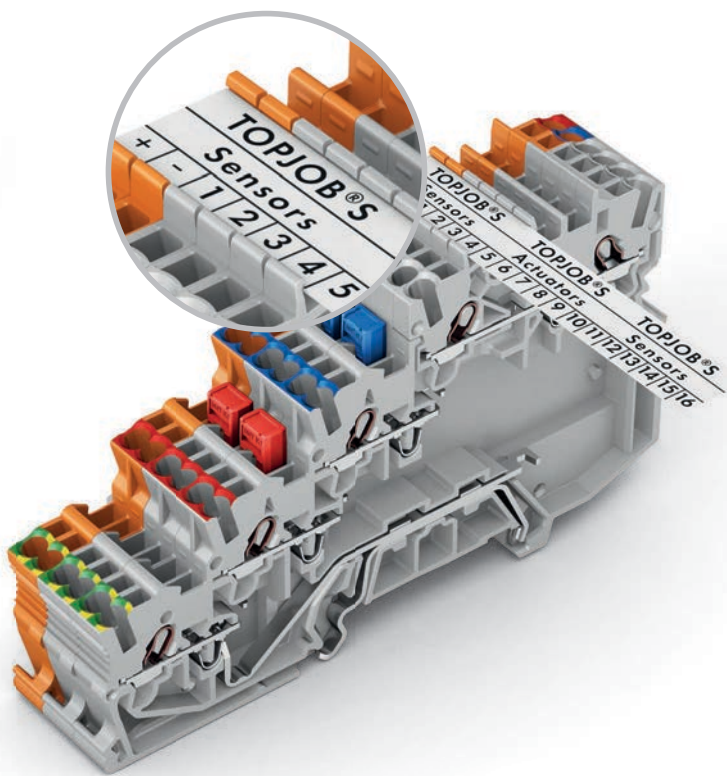


WITH ALL OPTIONS COVERED.

Range of Multifunctional Jumpers

- Commoning with standard jumpers - no limitation¹ on the number of blocks to be commoned
- Color-coded jumpers easily identify different potentials

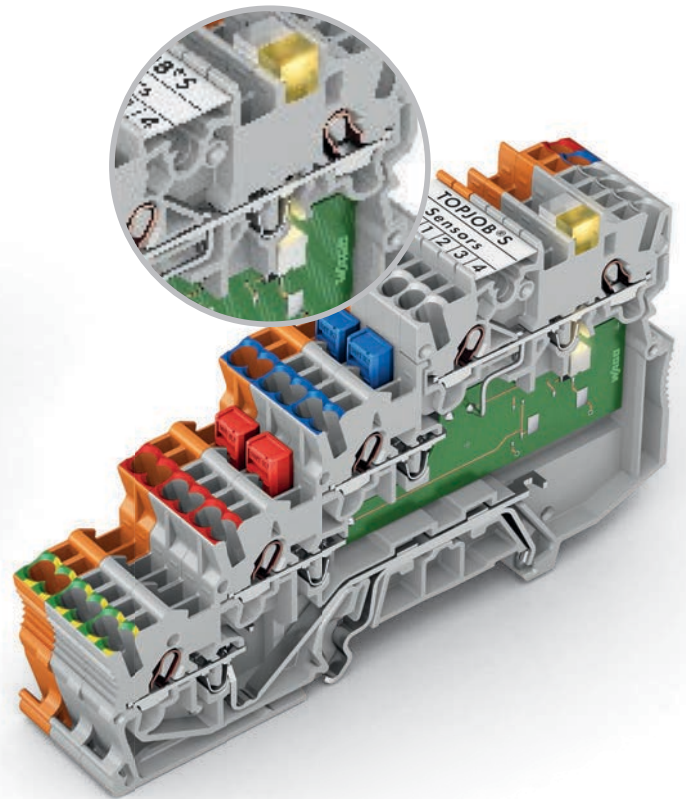
¹ current consumption must be considered.



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.

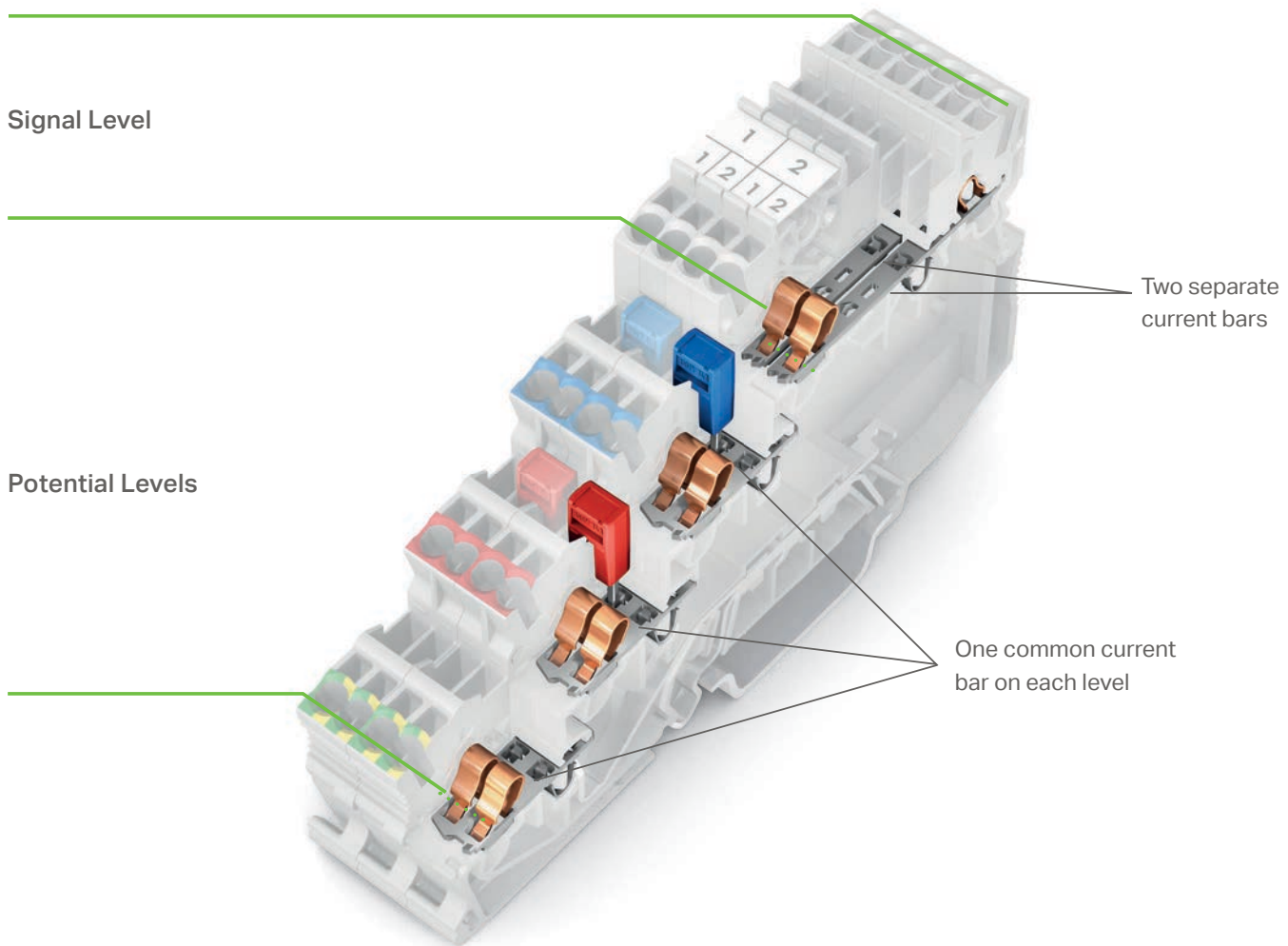
LED, Wiring and Marking in Plain View

- 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

Two separate current bars

Potential Levels

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 limitation¹ 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

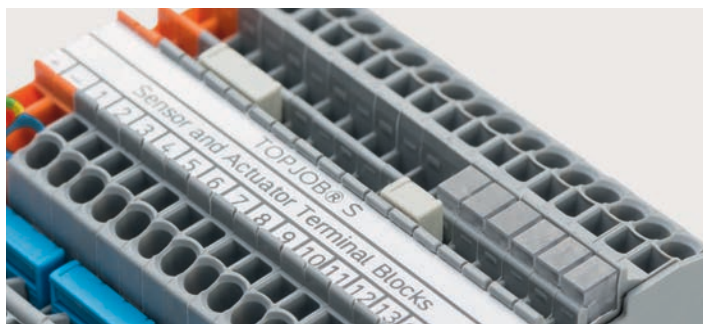
When using TOPJOB® S sensor/actuator terminal blocks, standard 2000 Series jumpers provide the right solution for all commoning tasks.

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



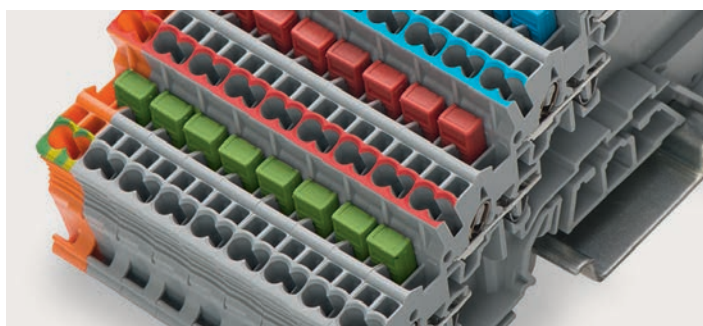
Commoning Potential Levels

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 number¹ of terminal blocks to be commoned with the use of even pole count jumpers.



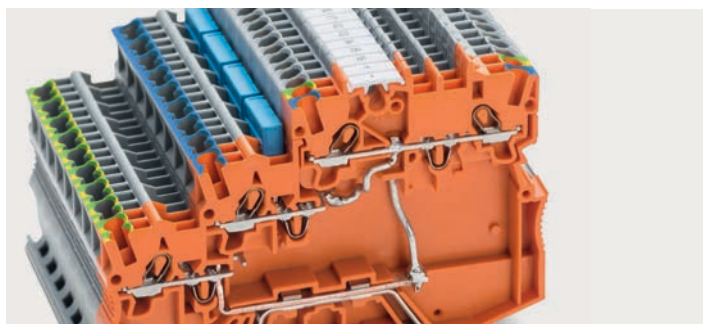
Commoning Signal Level

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.



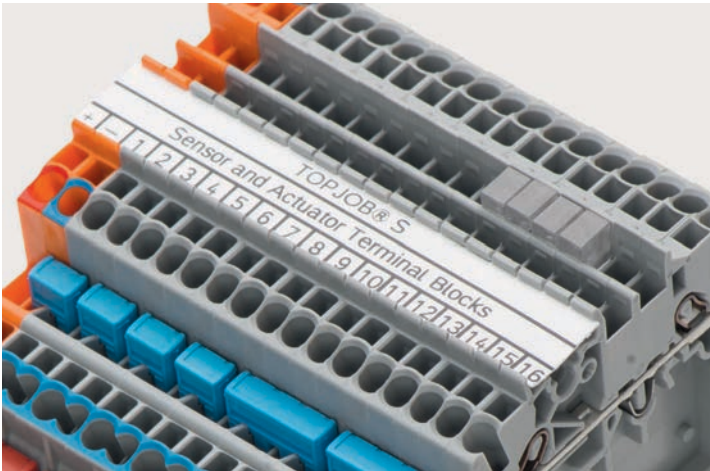
Power Supply

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 mm² / 12 AWG.

¹ current consumption must be considered.

FASTEST MARKING SYSTEM

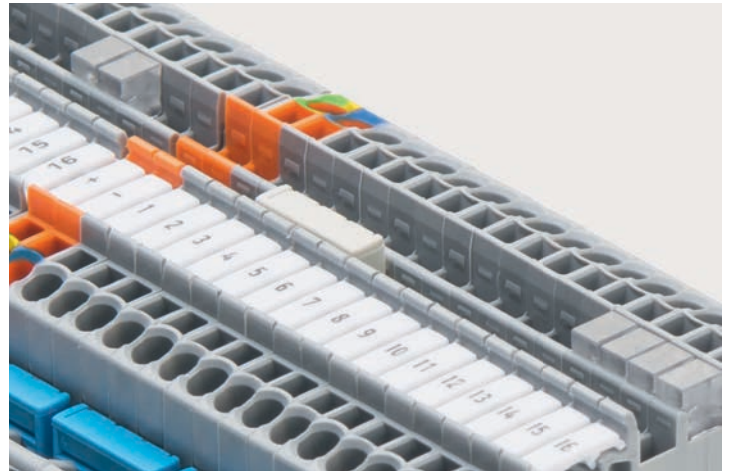
Marking Strips



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.

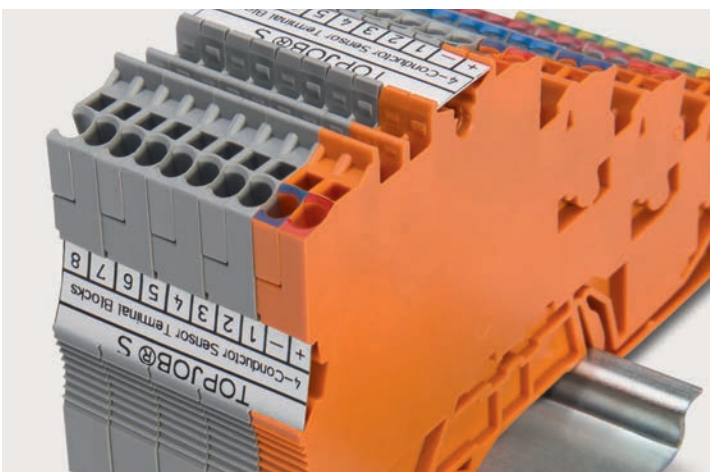
See it in action: www.smartprinter.us/video

WMB Markers



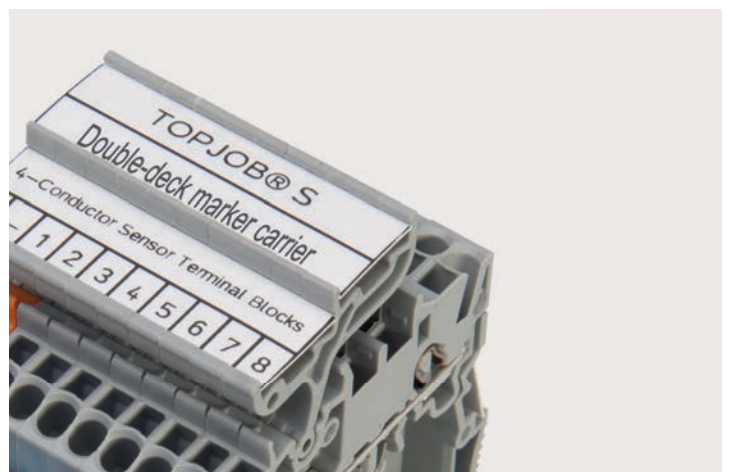
Marking using 3.5 mm WMB markers is also possible. They are available as WMB Inline markers on a reel (2009-113) and as WMB marking cards (793-35xx).

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

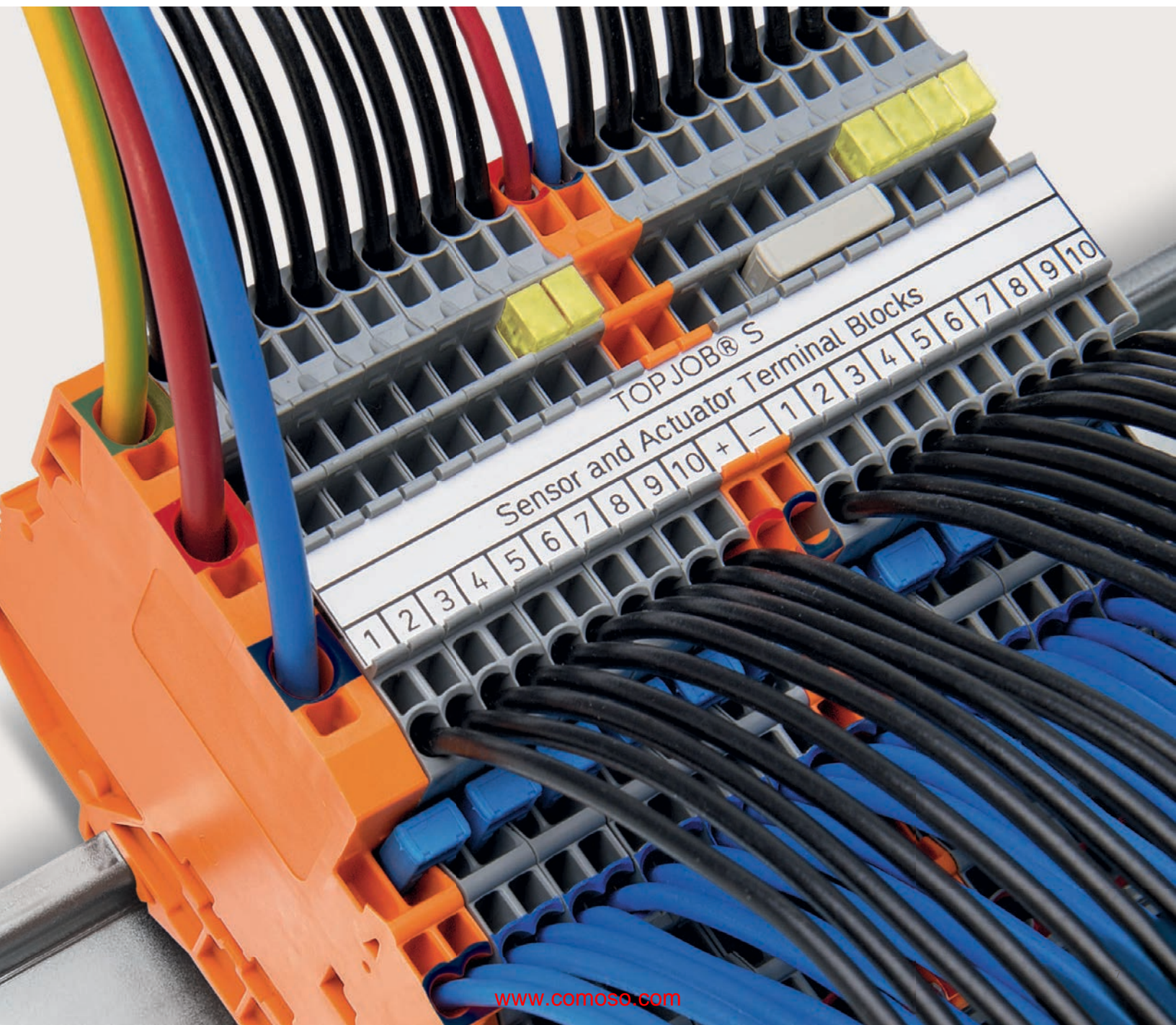


A pivoting marker carrier (2000-121) can be snapped in as a retrofit for marking additional levels.


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.

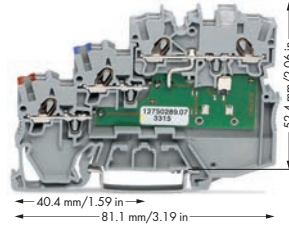
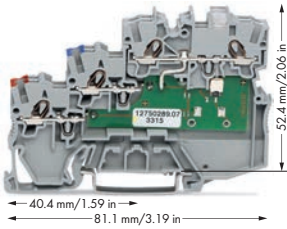
- The streamlined terminal block design, as well as color-coded conductor entries and jumpers, provide a quick wiring overview and a simplified control layout.
- LEDs, jumpers and markers are always visible – even when wired.



3-Conductor Sensor Terminal Blocks 16 AWG, 2000 Series

0.14 ... 1 (1.5) mm² ① 24 ... 16 AWG
 250 V/4 kV/3 ② 300 V, 10 A
 I_N 13.5 A
 Terminal block width: 7 mm / 0.276 in. ③
 9 ... 11 mm / 0.39 in. ④

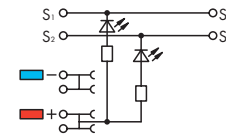
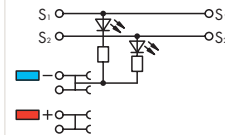
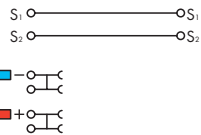
0.14 ... 1 (1.5) mm² ① 24 ... 16 AWG
 24 VDC 24 VDC, 10 A
 I_N 13.5 A
 Terminal block width: 7 mm / 0.276 in. ③
 9 ... 11 mm / 0.39 in. ④



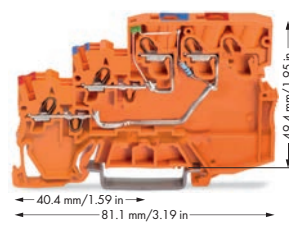
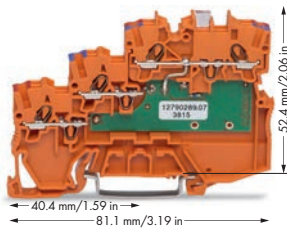
2000-5311

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 |

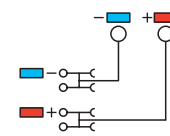
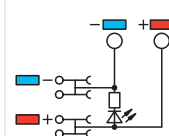
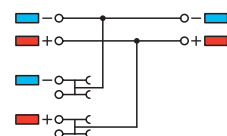
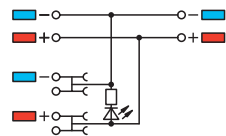


2000-5372/1102-953

2000-5372


2000-5352/1102-953


2000-5352



| 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 commoning | | 3-conductor sensor supply terminal block, max. 250 V, control panel side: 2.5 (4) mm², max. 28 A | |
| ● orange 2000-5372 | 15 | ● orange 2000-5352 | 15 |

4-Conductor Sensor Terminal Blocks 16 AWG, 2000 Series

0.14 ... 1 (1.5) mm² ① 24 ... 16 AWG
 250 V/4 kV/3 ② 300 V, 10 A
 I_N 13.5 A
 Terminal block width: 7 mm / 0.276 in. ③
 9 ... 11 mm / 0.39 in. ④

0.14 ... 1 (1.5) mm² ① 24 ... 16 AWG
 24 VDC 24 VDC, 10 A
 I_N 13.5 A
 Terminal block width: 7 mm / 0.276 in. ③
 9 ... 11 mm / 0.39 in. ④

① 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)

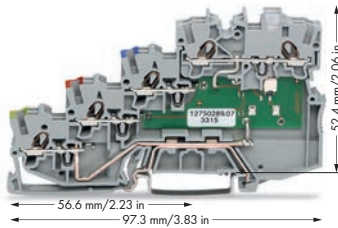
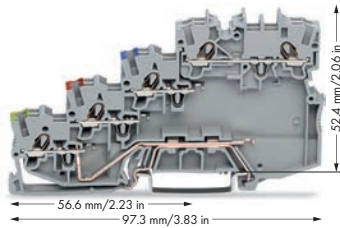
② 250 V = Rated voltage
 4 kV = Rated impulse voltage
 3 = Degree of pollution (see Full Line Catalog 1, Section 14)

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

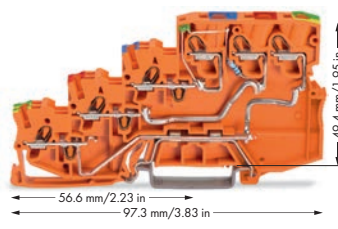
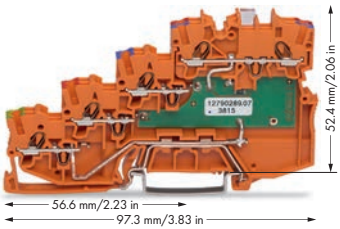
Note: The double spacing per pole of this terminal block series maximizes connectivity. For example, ten sensors may be connected using only five sensor terminal blocks plus a power supply terminal block.

④ Strip length, see packaging or instructions.

⑤ Ground connection via commoning to terminal blocks with ground foot





| Item No. | Pack. Unit | Item No. | Pack. Unit | | |
|--|------------------|---|---------------------------|---------------------------|------|
| 2000-5417 | | 2000-5410 | | | |
| | | | | | |
| 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 | ⑤ 50 | ● gray | 2000-5410/1102-950 | ⑤ 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 | ⑤ 50 | |

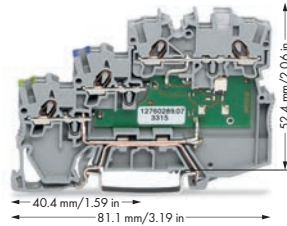
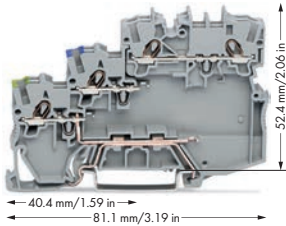


| Item No. | Pack. Unit | Item No. | Pack. Unit | | |
|---|---------------------------|---|------------|---------------------------|----|
| 2000-5477/1102-953 | | 2000-5477 | | | |
| | | | | | |
| 4-conductor sensor LED supply terminal block, 24 VDC, green LED, with ground connection | | 4-conductor 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 |

3-Conductor Actuator Terminal Blocks 16 AWG, 2000 Series

0.14 ... 1 (1.5) mm² ① 24 ... 16 AWG
 250 V/4 kV/3 ② 300 V, 10 A
 I_N 13.5 A
 Terminal block width: 7 mm / 0.276 in. ③
 9 ... 11 mm / 0.39 in. ④

0.14 ... 1 (1.5) mm² ① 24 ... 16 AWG
 24 VDC 24 VDC, 10 A
 I_N 13.5 A
 Terminal block width: 7 mm / 0.276 in. ③
 9 ... 11 mm / 0.39 in. ④

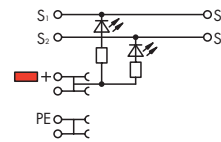
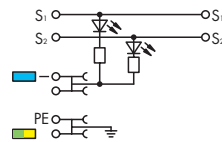
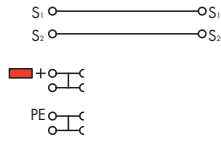
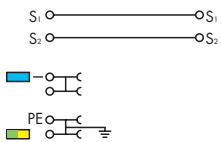


2000-5317/102-000

2000-5310/101-000

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 | ⑤ 50 | ● gray | 2000-5310/1102-950 | ⑤ 50 |

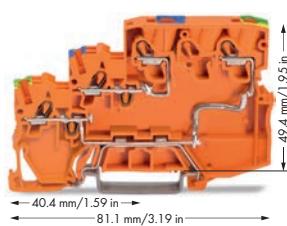
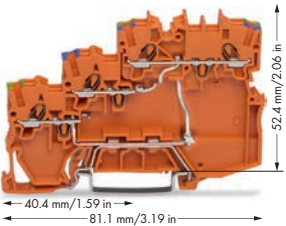
3-conductor actuator terminal block, for NPN (low-side)

switching actuators, with ground connection

3-conductor actuator LED terminal block, for NPN (low-side)

switching actuators, yellow LED, with ground connection

| | | | | | |
|--------|--------------------------|------|--------|---------------------------|------|
| ● gray | 2000-5317/101-000 | 50 | ● gray | 2000-5317/1101-951 | 50 |
| ● gray | 2000-5310/101-000 | ⑤ 50 | ● gray | 2000-5310/1101-951 | ⑤ 50 |

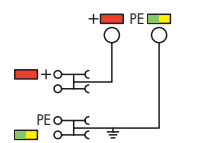
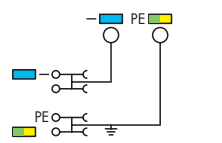
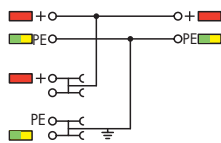
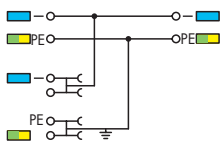


2000-5377/102-000

2000-5377/101-000

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 commoning

3-conductor actuator supply terminal block, max. 250 V,

control panel side: 2.5 (4) mm²/12 AWG, 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 LED supply terminal block, 24 VDC,

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 Item No. Pack. Unit

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

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

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

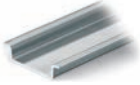
| | | | |
|---|---|---|--|
|  | 10 strips with 10 markers per card for 3.5 mm terminal block width | | |
| ○ white | 793-3501 | 5 | |

smartPRINTER

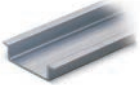
| | | | |
|---|--|-----------------|---|
|  | | 258-5000 | 1 |
| | More information at www.smartprinter.us | | |

Carrier Rails Item No. Pack. Unit


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


| | | | |
|---|------------------|----------------|------------|
|  | for DIN-35 rails | | |
| | 6 mm wide | 249-116 | 100 (4x25) |
| | 10 mm wide | 249-117 | 50 (2x25) |

Testing Accessories Item No. Pack. Unit


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

"Quickstrip Vario" wire stripper & cutter

| | | |
|---|-----------------|---|
|  | 206-1125 | 1 |
|---|-----------------|---|

"Variocrimp 4" crimping tool

| | | | |
|---|----------------------------|-----------------|---|
|  | 0.25 ... 4 mm ² | 206-1204 | 1 |
|---|----------------------------|-----------------|---|


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 |
|---|------------------------------|----------------|---|

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