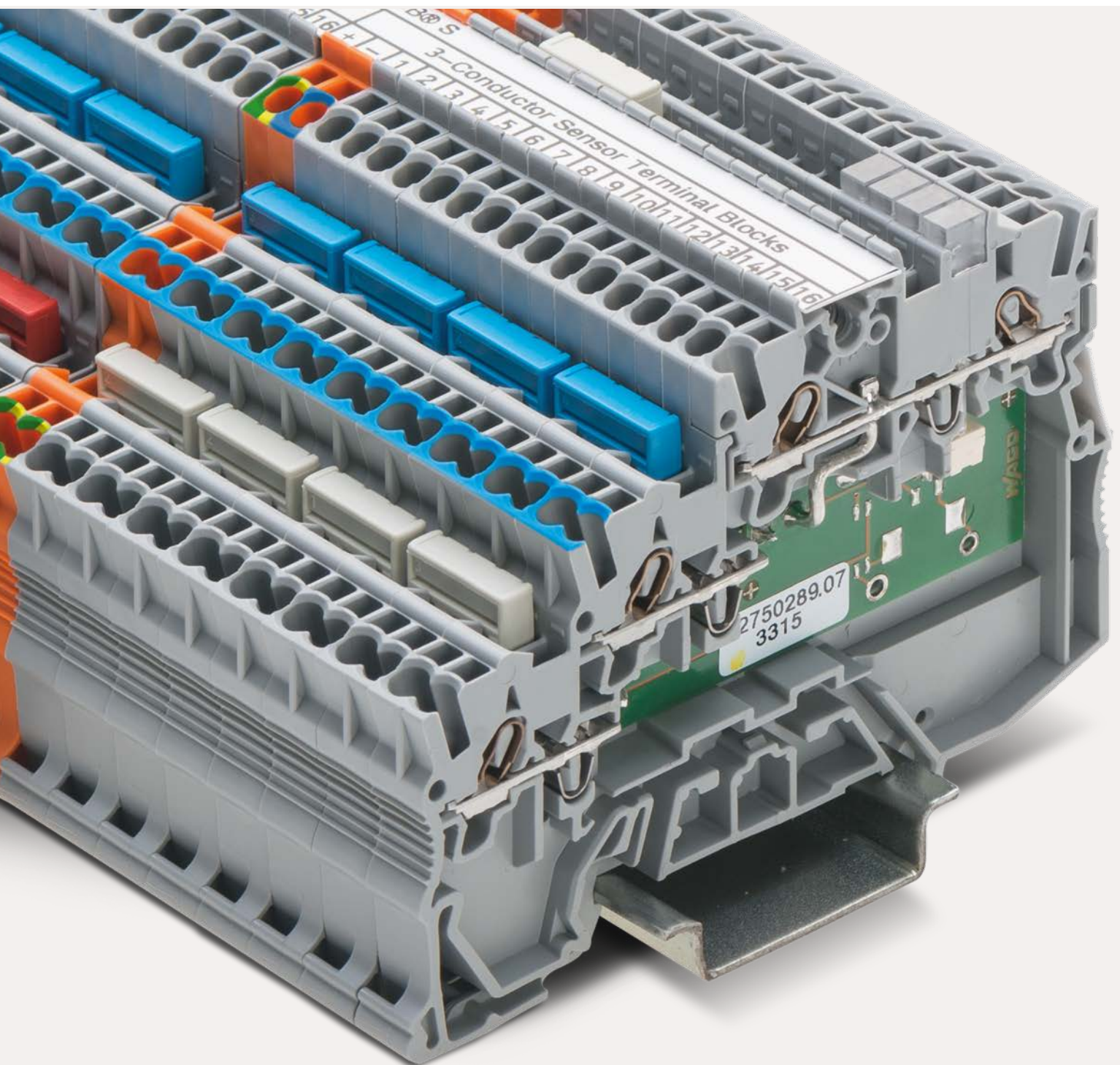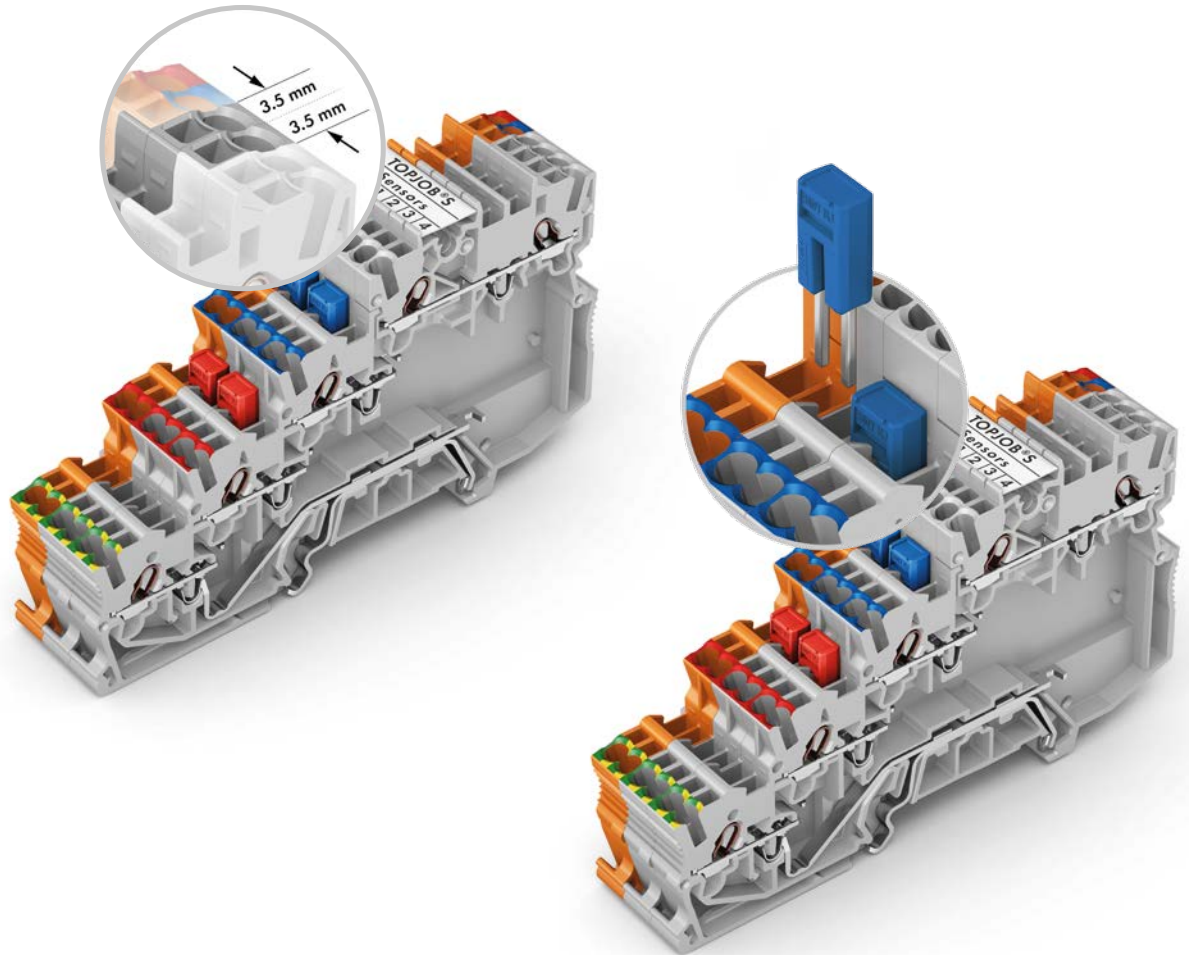# TOPJOB® S –
Sensor/Actuator Terminal Blocks
with Push-in CAGE CLAMP® Reliability

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 several sensors into the smallest possible space using only 3.5 mm per sensor on the DIN-rail
- Suitable for small terminal boxes within a system's decentralized periphery, as well as for centralized installation in the switch cabinet

WITH ALL OPTIONS COVERED.

Range of Multifunctional Jumpers

- Commoning with standard jumpers – no pole number limitation
- Color-coded jumpers simplify potential assignment
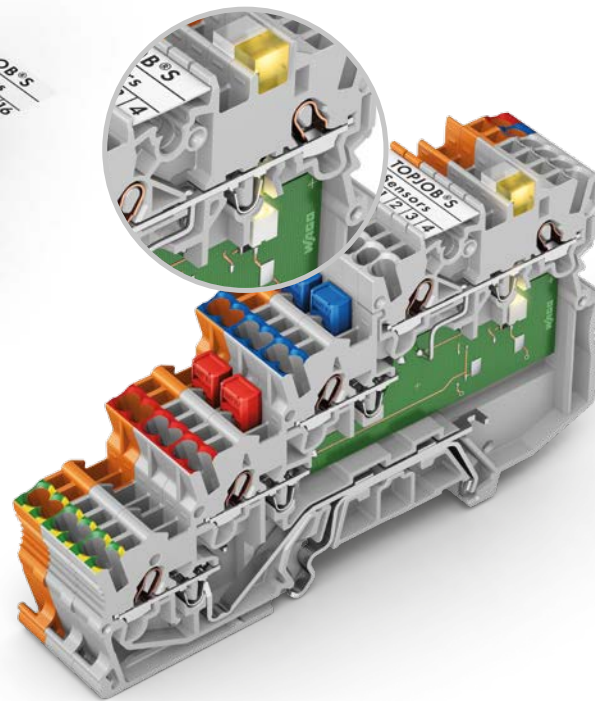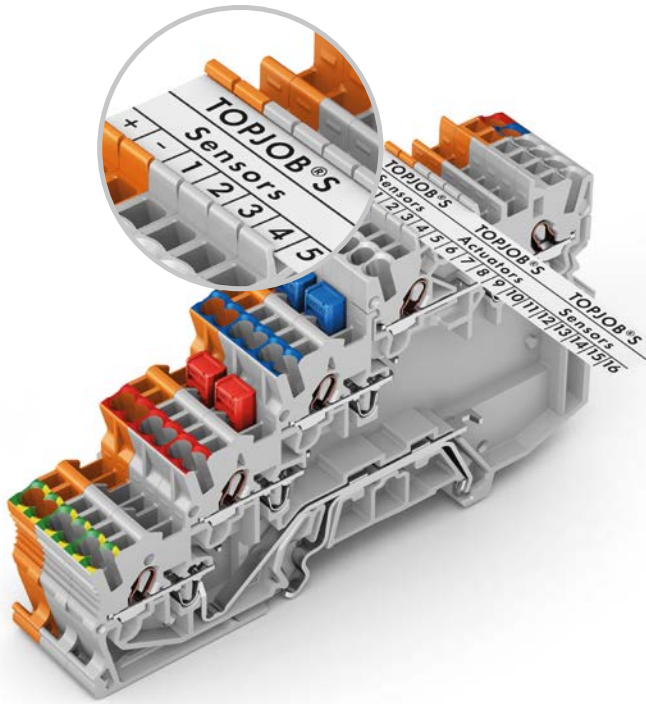
KEEP YOUR COSTS IN LINE.

Fastest Marking System

- Clear identification thanks to multi-line marking strips that don't cover the jumper slot
- Easy to read from any angle thanks to two marker slots on the top and side of the terminal strip

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 switching signal transmission from the sensors or to the actuators.

A single terminal block housing accommodates two interconnected potential terminals with doubled spacing on the lower levels and two independent signal pathways with single spacing of 3.5 mm on the upper levels.

Signal Level

Potential Levels

Two separate current bars

One doubled current bar on each level
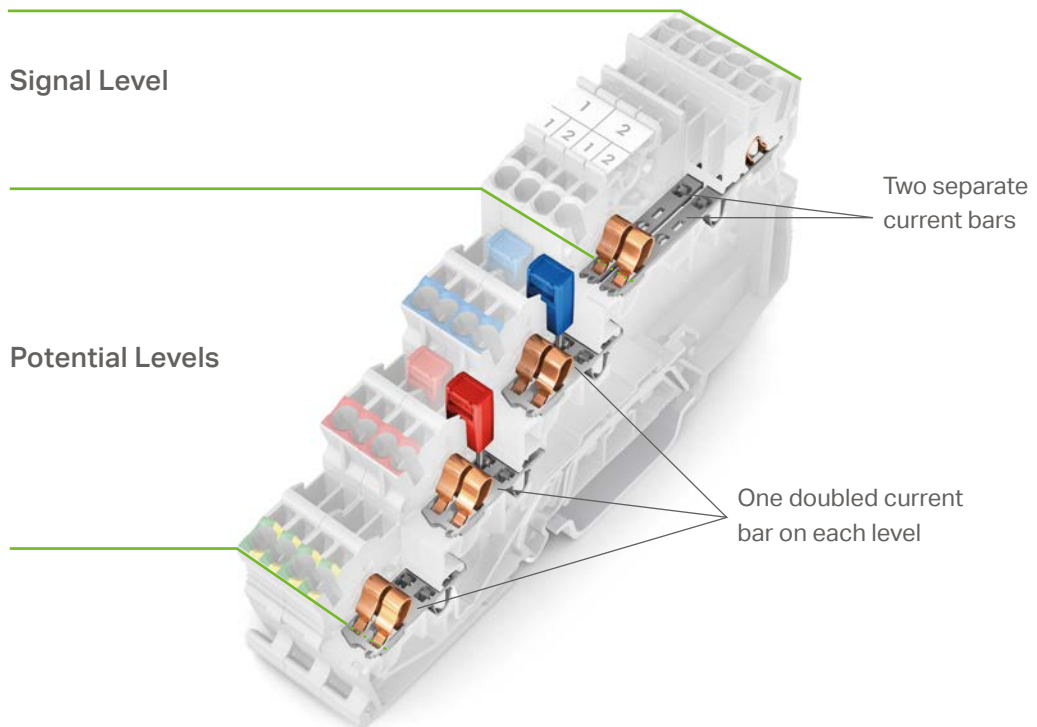
Potential Levels

- 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
- Commoning is possible without pole number limitation

Signal Level

- The signal level transmits switching signals from two sensors or to the actuators, separately per terminal block – in a single housing

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 universally used on both potential levels and the signal level.
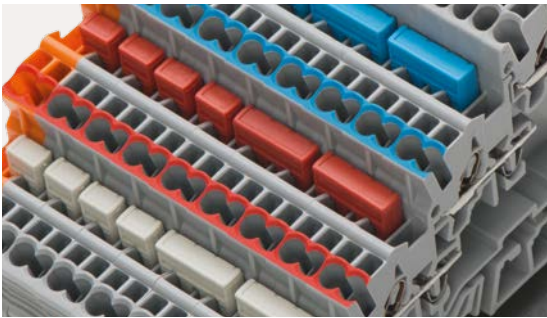

Commoning Potential Levels
On the potential levels, standard jumpers can be used for commoning with no pole number limitation. Each terminal block has two connected clamping units and thus two connected jumper slots. This allows any number of terminal blocks to be commoned in just one jumper slot using jumpers with even pole numbers.

Commoning Signal Level
Two jumper slots are available on the signal level for commoning with standard jumpers. This level features two independent signal pathways. Terminal block versions with an LED have only one jumper slot for testing or commoning.
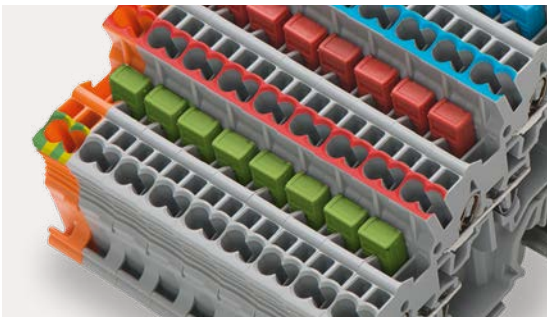
Ground Commoning
For sensor/actuator terminal blocks without ground connection to the DIN-rail, the ground connection can also be performed economically by commoning to the terminal block with a ground foot (e.g., via the supply terminal block).
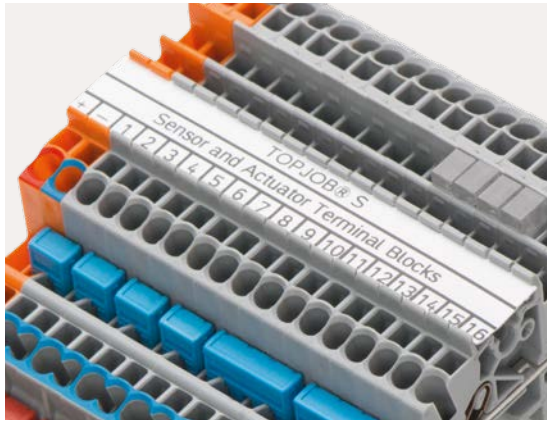

Power Supply
Orange supply terminal blocks with the same profile can be placed anywhere within an assembly. They are available in cross sections up to 4 mm^2 (12 AWG). Power supply can be performed either via center feed or ring feed configuration.
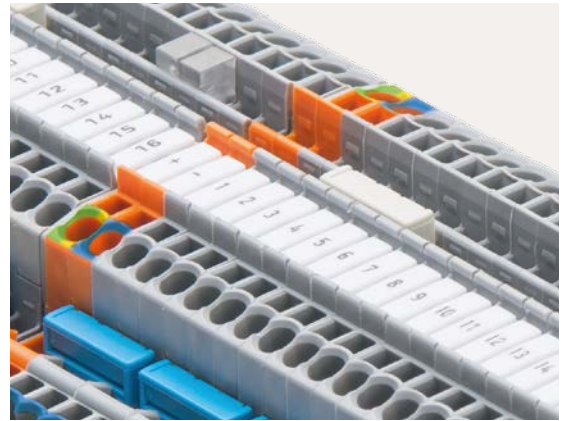
FASTEST MARKING SYSTEM

Marking Strips

TOPJOB® S Sensor/Actuator Terminal Blocks can be marked in multiple ways. Marking strips (2009-110) offer the fastest and easiest possibility. Multi-line marking simplifies the labeling of a terminal block's function, allowing individual signals and groups to be simultaneously marked.

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 additional marking 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 colored conductor entries and jumpers provide quick wiring overview and a simplified control layout.
- LEDs, jumpers and markers are always visible – even when wired.
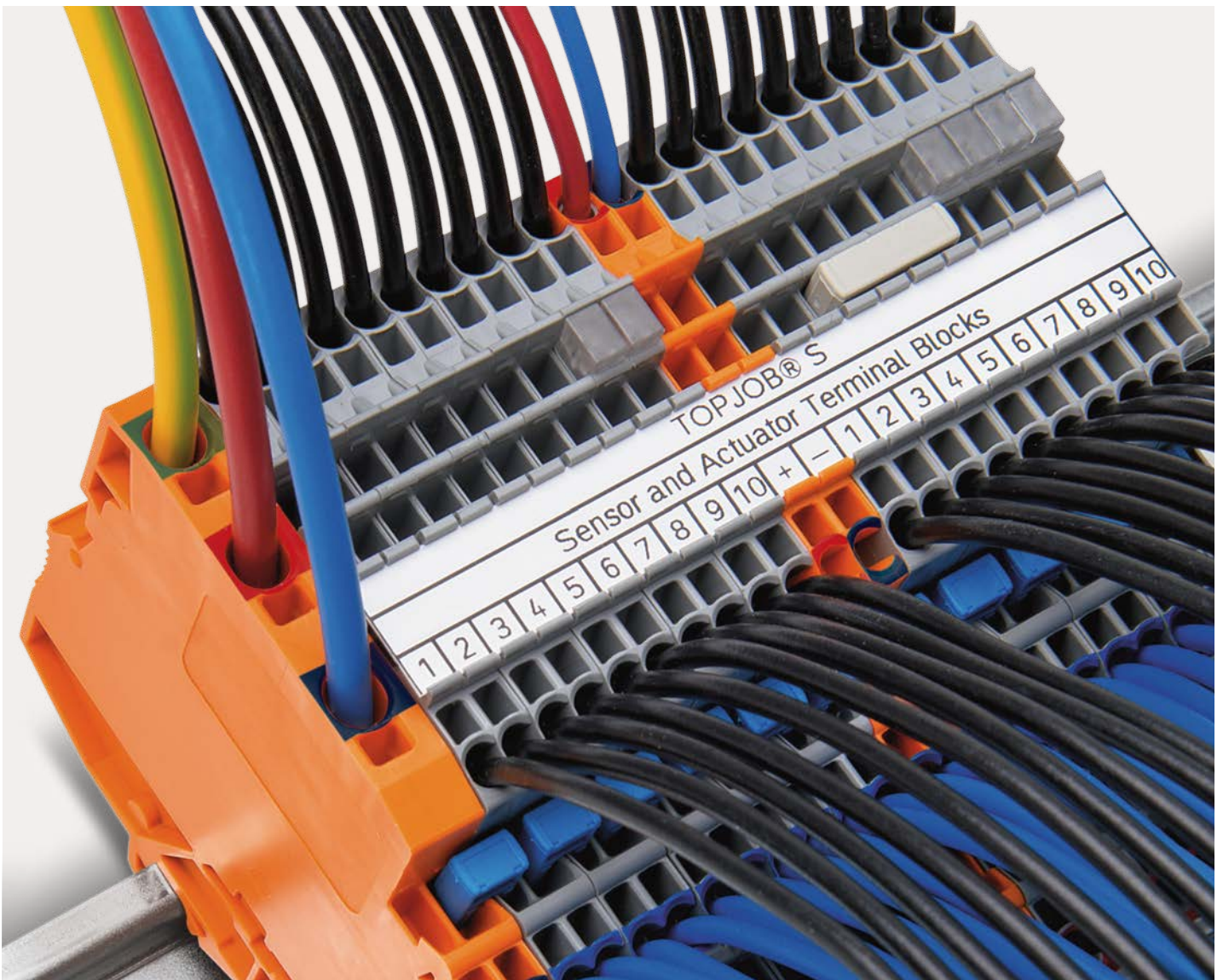
3-Conductor Sensor Terminal Blocks 1 (1.5) mm², 2000 Series

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	

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	
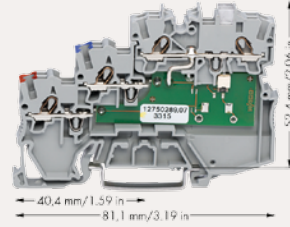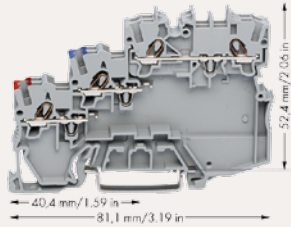
2000-5311

2000-5311/1102-950

2000-5311/1101-951

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

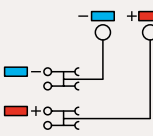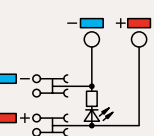|	Item No.	Pack. Unit
3-conductor sensor LED terminal block,		
for **PNP (high-side)** switching sensors, yellow LED		
⬤ gray	**2000-5311/1102-950**	50
3-conductor sensor LED terminal block,		
for **NPN (low-side)** switching sensors, yellow LED		
⬤ gray	**2000-5311/1101-951**	50
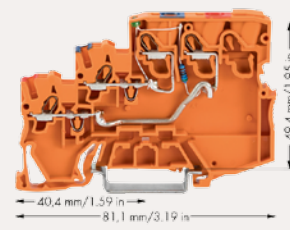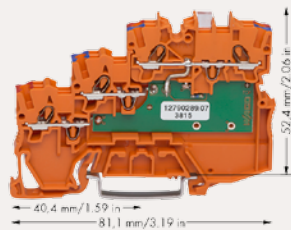
2000-5372/1102-953

2000-5372

2000-5352/1102-953

2000-5352

	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

	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 1 (1.5) mm², 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	

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,			**4-conductor sensor LED terminal block,**		
with ground connection			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

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,			**4-conductor sensor LED supply terminal block,** 24 VDC, green LED,		
24 VDC, green LED, with ground connection			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,			**4-conductor sensor supply terminal block,** max. 250 V, with		
internal commoning, with ground connection			ground connection, control panel side: 2.5 (4) mm², max. 28 A		
⬤ orange	**2000-5477**	15	⬤ orange	**2000-5457**	15

❶
Conductor range:
0.14 … 1.5 mm² "s+f-st"
Push-in termination:
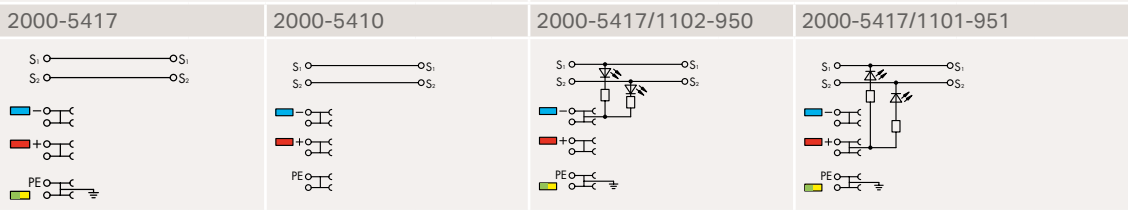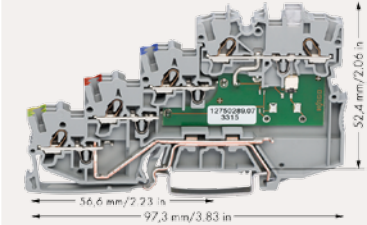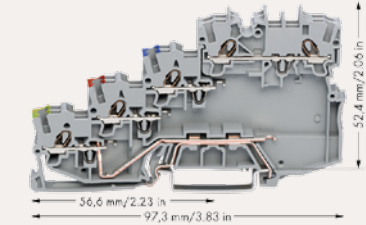0.5 … 1.5 mm² "s"
and 0.5 … 0.75 mm²
"insulated ferrule, 10 mm"

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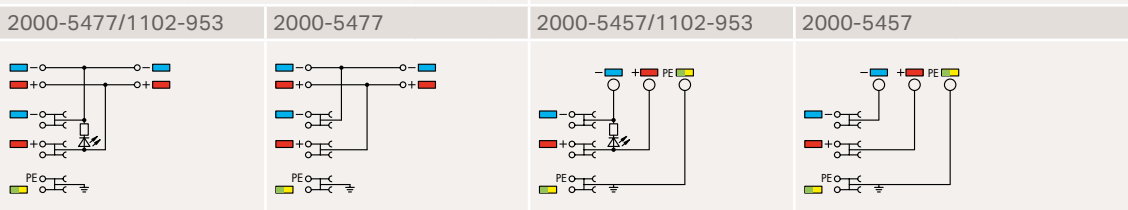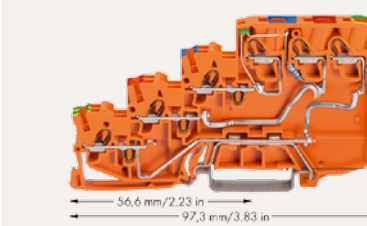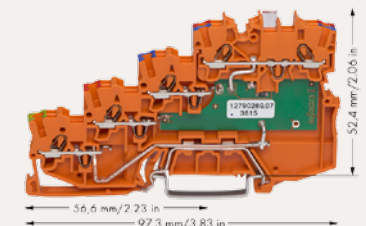Section 14)

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 sen-
sors 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

3-Conductor Actuator Terminal Blocks 1 (1.5) mm², 2000 Series

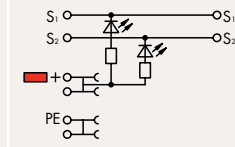| 0.14 … 1 (1.5) mm² ❶	24 … 16 AWG	0.14 … 1 (1.5) mm² ❶	24 … 16 AWG
250 V/4 kV/3 ❷	300 V, 10 A	24 VDC	24 VDC, 10 A
I$_N$ 13.5 A		I$_N$ 13.5 A	
Terminal block width: 7 mm / 0.276 in. ❸		Terminal block width: 7 mm / 0.276 in. ❸	
▭▱ 9 … 11 mm / 0.39 in. ❹		▭▱ 9 … 11 mm / 0.39 in. ❹	

2000-5317/102-000	2000-5310/101-000	2000-5317/1102-950	2000-5310/1101-951
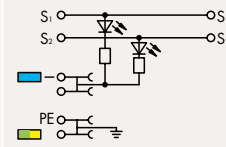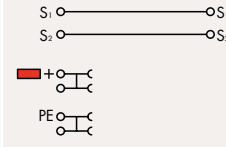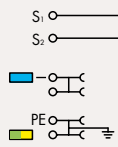
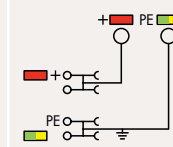|	Item No.	Pack. Unit		Item No.	Pack. Unit
3-conductor actuator terminal block, for **PNP (high-side)** switching actuators, with ground connection			**3-conductor actuator LED terminal block,** for **PNP (high-side)** switching actuators, yellow LED, with ground connection		
gray	**2000-5317/102-000**	50	gray	**2000-5317/1102-950**	50
gray	**2000-5310/102-000**	❺ 50	gray	**2000-5310/1102-950**	❺ 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**	❺ 50	gray	**2000-5310/1101-951**	❺ 50
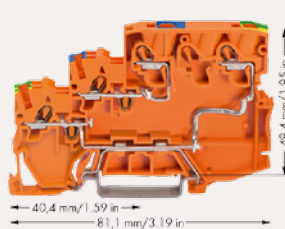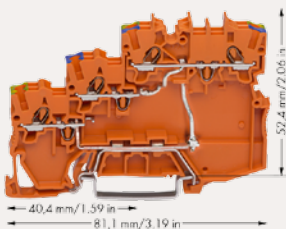
2000-5377/102-000	2000-5377/101-000	2000-5357/102-000	2000-5357/101-000
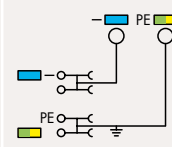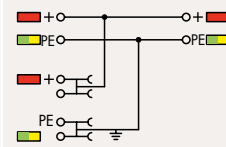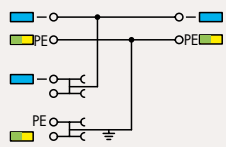
	Item No.	Pack. Unit		Item No.	Pack. Unit
3-conductor actuator supply terminal block, max. 250 V, for **PNP (high-side)** switching actuators, with ground connection, internal commoning			**3-conductor actuator supply terminal block,** max. 250 V, control panel side: 2.5 (4) mm², max. 28 A, for **PNP (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,** max. 250 V, 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

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)

Accessories		
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 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	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
*smart*PRINTER		
	258-5000	1
More information at www.wago.com/printer		
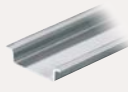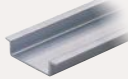
Carrier Rails	Item No.	Pack. Unit
Carrier rails, steel		
I_N 76 A (reference length of 1 m)		
35 x 7.5 mm, 1 mm thick, 2 m long		
unslotted	**210-113**	10
slotted	**210-112**	10 (10x1)
Hole width: 25 mm; hole spacing: 36 mm		
slotted	**210-115**	1
Hole width: 18 mm; hole spacing: 25 mm		
Carrier rail, 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 mm²		
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
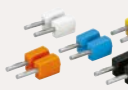
Tools	Item No.	Pack. Unit
"Quickstrip 10" wire stripper		
	206-124	1
"Variocrimp 4" crimping tool		
0.25 ... 4 mm²		
	206-204	1
Insulated ferrules, extra long,		
0.5 mm²	**216-241**	1000
0.75 mm²	**216-242**	1000
For 2.5 (4) mm² supply terminal blocks:		
1 mm²	**216-243**	1000
1.5 mm²	**216-244**	1000
2.5 mm²	**216-246**	1000
Operating tool with a partially insulated shaft,		
type 1, (2.5 x 0.4) mm blade		
	210-719	1

WITH A PLUGGABLE SIGNAL LEVEL

For the very first time, sensor/actuator wiring is pluggable between terminal box and switch cabinet thanks to the newest additions of WAGO's TOPJOB® S terminal block family.

Both power supply and all signal paths can be combined into one single pluggable connector within a terminal box. Systems can be modularized via pre-assembled connectors.

Safely remove female plugs

via strain-relieved conductors

Secure female plugs

via locking levers

Faster and easier connections

via pre-assembled connectors

Prevent wiring errors

via pluggable connectors that can be coded
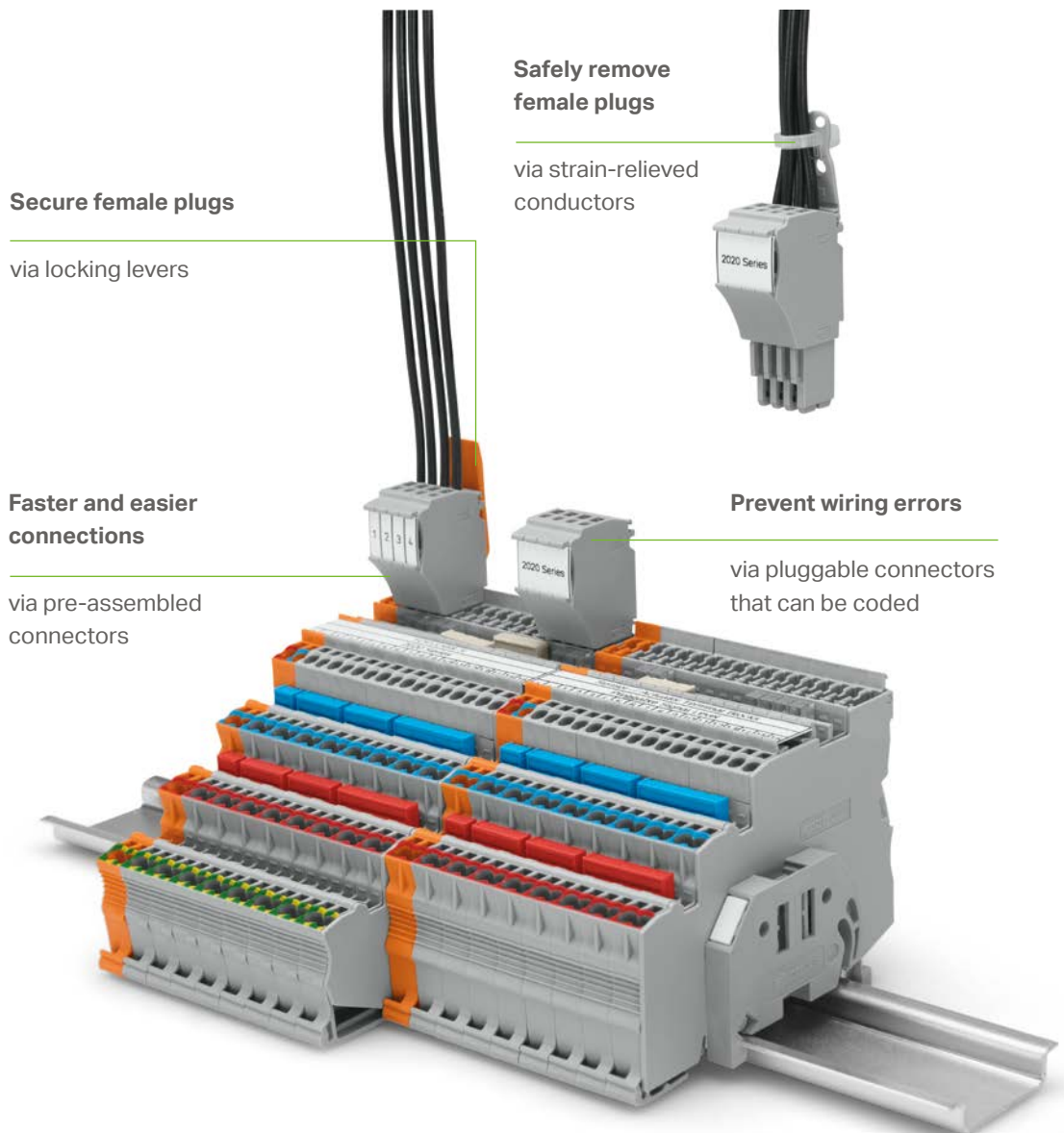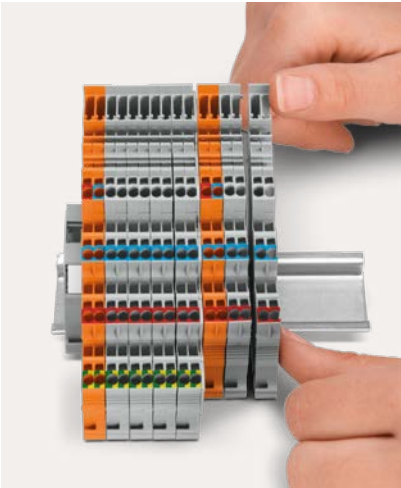
Assembly/Disassembly

The sensor/actuator terminal blocks with pluggable signal levels can be snapped together.

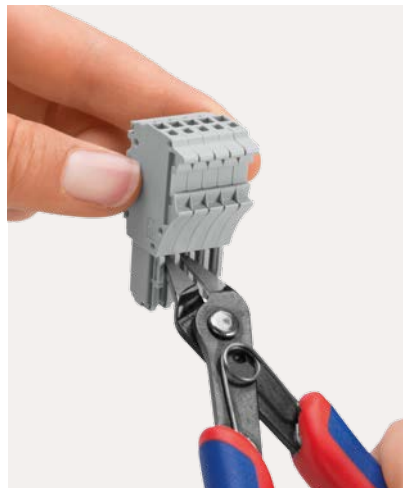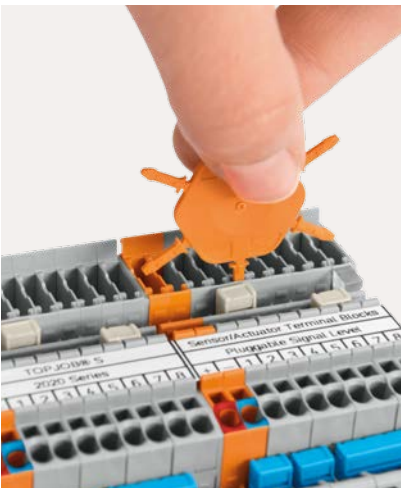Assembly: Snap individual terminal blocks onto the DIN-rail and slide together.

Disassembly: Separate individual terminal blocks and slide laterally using an operating tool.

Mismating Protection

Before installation, the pluggable connectors may be coded to prevent wiring errors.

Coding: Insert a coding pin into the appropriate terminal block slot and break it off from the carrier.

Remove a coding finger from the female plug using a cutting tool.
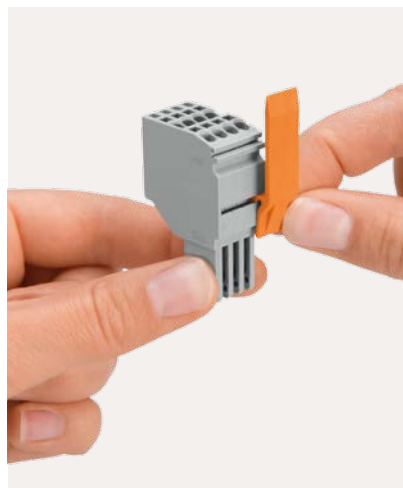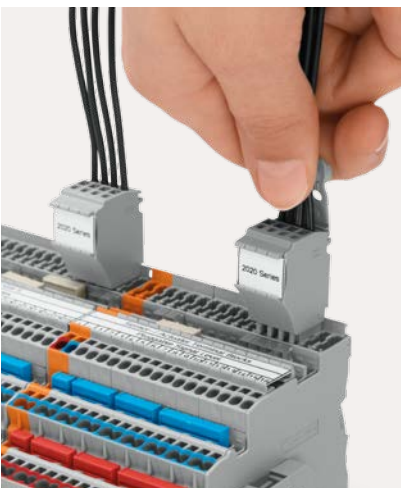
Mechanical Protection

Locking levers for female plugs provide additional safety, making accidental disconnection more difficult.

Furthermore, strain relief plates allow female plugs to be safely pulled out.

3-/4-Conductor Sensor Terminal Blocks 1 (1.5) mm², 2020 Series

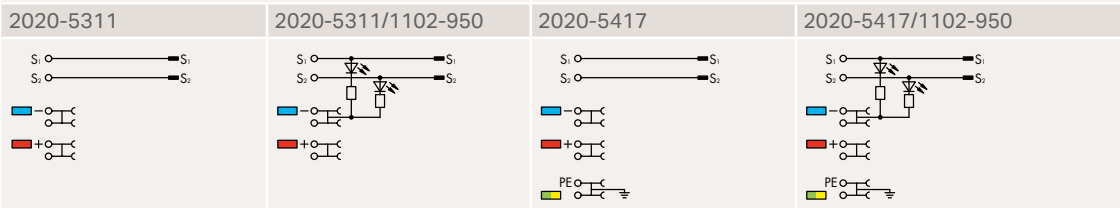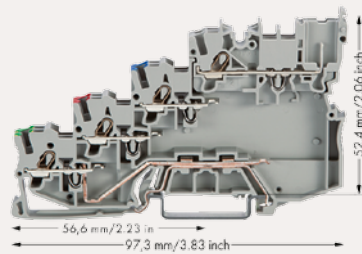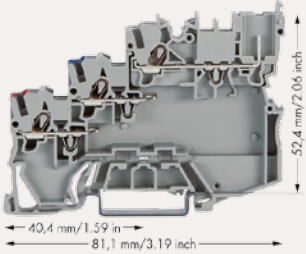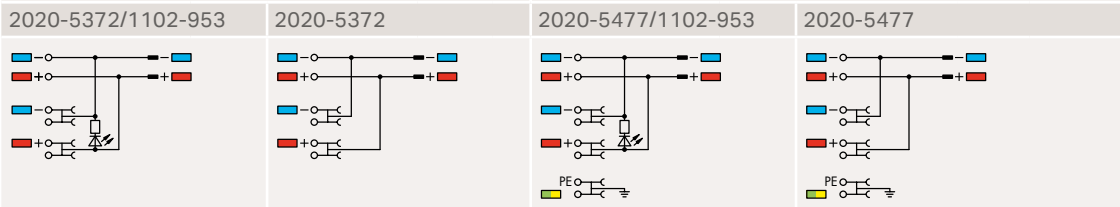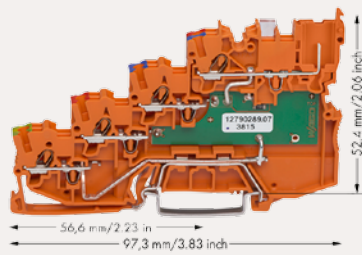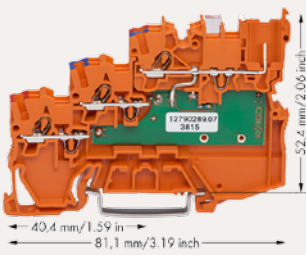|			
0.14 … 1.5 mm² ❶	24 … 16 AWG	0.14 … 1.5 mm² ❶	24 … 16 AWG
250 V/4 kV ❷		250 V/4 kV ❷	
I_N 13.5 A		I_N 13.5 A	
Terminal block width: 7 mm / 0.276 inch ❸		Terminal block width: 7 mm / 0.276 inch ❸	
9 … 11 mm / 0.35 … 0.43 inch ❹		9 … 11 mm / 0.35 … 0.43 inch ❹	

52,4 mm/2.06 inch
40,4 mm/1.59 in
81,1 mm/3.19 inch

52,4 mm/2.06 inch
56,6 mm/2.23 in
97,3 mm/3.83 inch

2020-5311	2020-5311/1102-950	2020-5417	2020-5417/1102-950

	Item No.	Pack. Unit		Item No.	Pack. Unit
3-conductor sensor terminal block,			**4-conductor sensor terminal block,**		
with pluggable signal level			with ground connection, with pluggable signal level		
⬤ gray	**2020-5311**	50	⬤ gray	**2020-5417**	50
3-conductor sensor LED terminal block,			**4-conductor sensor LED terminal block,**		
for PNP (high-side) switching sensors,			for PNP (high-side) switching sensors, 24 VDC, yellow LED,		
24 VDC, yellow LED, with pluggable signal level			with ground connection, with pluggable signal level		
⬤ gray	**2020-5311/1102-950**	50	⬤ gray	**2020-5417/1102-950**	50

52,4 mm/2.06 inch
40,4 mm/1.59 in
81,1 mm/3.19 inch
1279028907
3815

52,4 mm/2.06 inch
56,6 mm/2.23 in
97,3 mm/3.83 inch
1279028907
3815

2020-5372/1102-953	2020-5372	2020-5477/1102-953	2020-5477

	Item No.	Pack. Unit		Item No.	Pack. Unit
3-conductor sensor LED supply terminal block,			**4-conductor sensor LED supply terminal block,**		
24 VDC, green LED, with pluggable signal level			24 VDC, green LED, with ground connection,		
			with pluggable signal level		
⬤ orange	**2020-5372/1102-953**	15	⬤ orange	**2020-5477/1102-953**	15
3-conductor sensor supply terminal block,			**4-conductor sensor supply terminal block,**		
internally commoned, with pluggable signal level			internally commoned, with ground connection		
			with pluggable signal level		
⬤ orange	**2020-5372**	15	⬤ orange	**2020-5477**	15

❶
Conductor range:
0.14 … 1.5 mm² "s+f-st"
Push-in termination:
0.5 … 1.5 mm² "s"
and 0.5 … 0.75 mm²
"insulated ferrules, 10 mm"

❷
250 V = Rated voltage
4 kV = Rated surge voltage
3 = Degree of pollution
(see Full Line Catalog 1,
Section 14)
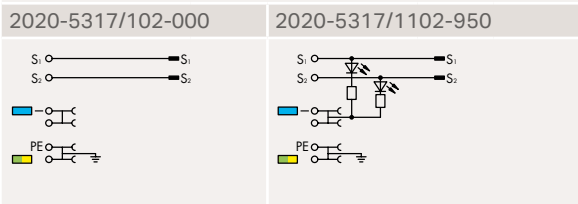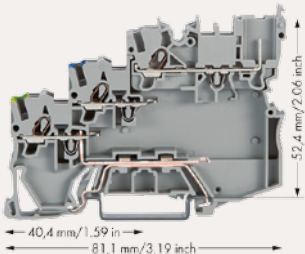
❸
3.5 mm spacing per signal
(2 x 3.5 mm = 7 mm)

Note:
The double spacing per pole of this terminal block series maximizes connectivity. 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

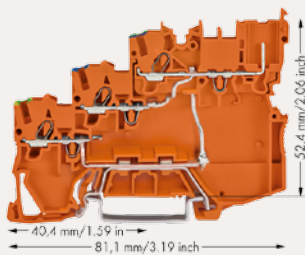## 3-Conductor Actuator Terminal Blocks 1 (1.5) mm², 2020 Series

0.14 … 1.5 mm² ❶ **24 … 16 AWG**
250 V/4 kV ❷
I_N 13.5 A
Terminal block width: 7 mm / 0.276 inch ❸
▭▨ 9 … 11 mm / 0.35 … 0.43 inch ❹

40,4 mm / 1.59 in
81,1 mm / 3.19 inch
52,4 mm / 2.06 inch

2020-5317/102-000	2020-5317/1102-950

	Item No.	Pack. Unit
3-conductor actuator terminal block,		
for PNP (high-side) switching actuators,		
with ground connection, with pluggable signal level		
⚪ gray	**2020-5317/102-000**	50
3-conductor actuator LED terminal block,		
for PNP (high-side) switching actuators, 24 VDC, yellow LED,		
with ground connection, with pluggable signal level		
⚪ gray	**2020-5317/1102-950**	50

40,4 mm / 1.59 in
81,1 mm / 3.19 inch
52,4 mm / 2.06 inch

2020-5377/102-000

	Item No.	Pack. Unit
3-conductor actuator supply terminal block,		
for PNP (high-side) switching actuators, with ground connection		
internally commoned, with pluggable signal level		
🟠 orange	**2020-5377/102-000**	15

Accessories only for 2020 Series

End Plates		Item No.	Pack. Unit
End and intermediate plate, 1 mm thick			
	for 3-conductor terminal blocks		
	⚪ gray	**2020-5391**	100 (25)
	for 4-conductor terminal blocks		
	⚪ gray	**2020-5491**	100 (25)

Female Plugs		Item No.	Pack. Unit
1-conductor female plug,			
	for insertion into carrier terminal blocks,		
	with coding fingers		
	⚪ gray		
	Pole No. 2	**2020-102**	100
	4	**2020-104**	50
	6	**2020-106**	50
	8	**2020-108**	25
	10	**2020-110**	25
	12	**2020-112**	20
	14	**2020-114**	10

Coding Accessories		Item No.	Pack. Unit
Carrier with 6 coding pins,			
	for coding female plugs		
	🟠 orange	**2020-100**	100 (25)

Locking Levers		Item No.	Pack. Unit
Width: 4.8 mm			
	🟠 orange	**2022-142**	100 (25)
	⚪ gray	**2022-141**	100 (25)
Width: 9.6 mm			
	🟠 orange	**2022-152**	100 (25)
	⚪ gray	**2022-151**	100 (25)

Strain Relief Plates		Item No.	Pack. Unit
Strain relief plate,			
	⚪ gray		
	6 mm wide	**734-327**	100 (4x25)
	12.5 mm wide	**734-328**	100 (4x25)
	25 mm wide	**734-329**	100 (4x25)
	35 mm wide	**734-326**	100 (4x25)

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