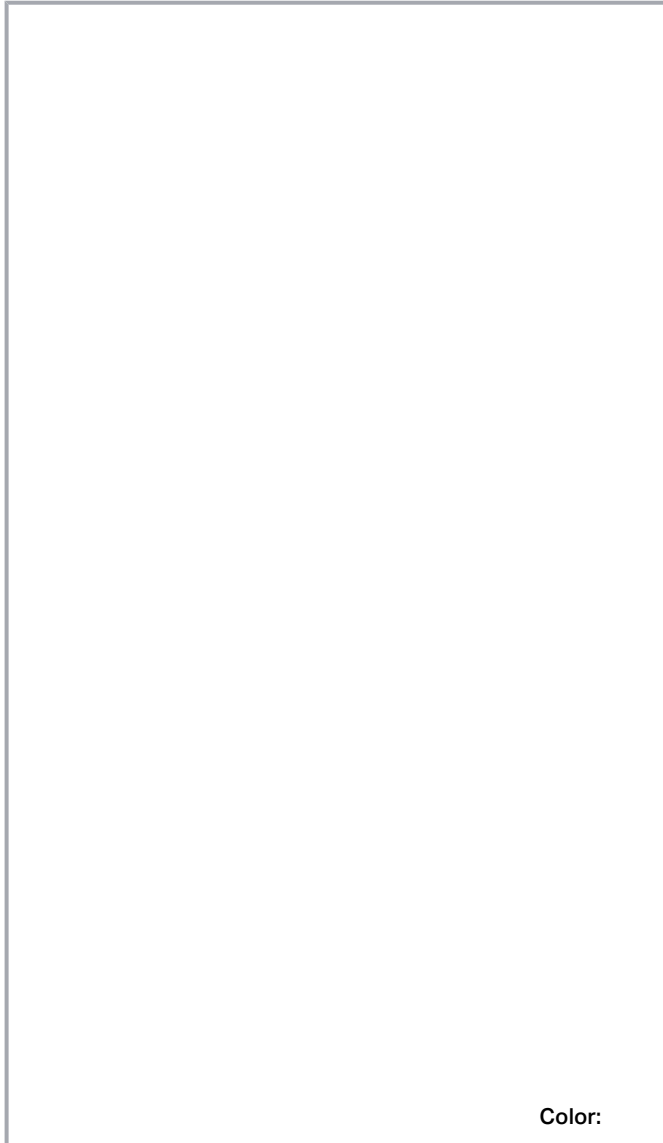


**Data sheet | Item number: 2020-5477**

4-conductor sensor supply terminal block; for PNP (positive) switching sensors; with ground contact; 1 mm<sup>2</sup>; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; orange



[www.wago.com/2020-5477](http://www.wago.com/2020-5477)



**Color:**

Subject to changes. Please also observe the further product documentation!

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## Item description

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

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.

## Data

### Notes

Note	According to EN 61984, pluggable connectors without a current interrupting capacity must not be mated or unmated when live or under load. An appropriate end plate must be applied to the carrier terminal blocks after each female plug.
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## Electrical data

### Ratings per IEC/EN

Ratings per	IEC/EN 60947-7-1
Nominal voltage (III/3)	250 V
Rated current	13.5 A
Legend (ratings)	(III / 3) $\hat{=}$ Overvoltage category III / Pollution degree 3

### Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	15 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	15 A

### Ratings per CSA

Approvals per	CSA 22.2 No 158
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	10 A

### Power Loss

Power loss, per pole (potential)	0.434 W
Rated current $I_N$ for specified power loss	13.5 A
Resistance value for specified, current-dependent power loss	0.002 $\Omega$

### Connection data

Connection points	8
Female plug slots	2
Total number of potentials	5
Number of levels	4
Number of jumper slots	5

### Connection 1

Connection technology	Push-in CAGE CLAMP <sup>®</sup>
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Subject to changes. Please also observe the further product documentation!



Actuation type	Operating tool
Connectable conductor materials	Copper Copper
Nominal cross-section	1 mm <sup>2</sup>
Solid conductor	0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm <sup>2</sup> / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm <sup>2</sup> / 20 ... 18 AWG
Note (conductor cross-section)	Depending on the conductor characteristic, a conductor with a smaller cross-section can also be inserted via push-in termination.
Strip length	9 ... 11 mm / 0.35 ... 0.43 inches
Wiring direction	Front-entry wiring

### Physical data

Width	7 mm / 0.276 inches
Height	97.3 mm / 3.831 inches
Depth from upper-edge of DIN-rail	52.4 mm / 2.063 inches

### Mechanical Data

Mounting type	DIN-35 rail DIN-35 rail
Marking level	Center marking

### Material Data

Note (material data)	Information on material specifications can be found here
Color	orange
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.314 MJ
Weight	21.4 g

### Environmental requirements

Processing temperature	-35 ... +85 °C
Continuous operating temperature	-60 ... +105 °C

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## Commercial data

eCl@ss 10.0	27-14-11-28
eCl@ss 9.0	27-14-11-28
ETIM 8.0	EC000900
ETIM 7.0	EC000900
PU (SPU)	15 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143525510
Customs tariff number	85369010000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CCA</b> DEKRA Certification B.V.	EN 60947	NTR NL 7617
	<b>CSA</b> DEKRA Certification B.V.	C22.2	2516073
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 60947	71- 100670
	<b>UL</b> UL International Germany GmbH	UL 1059	E 45172

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>EU-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-
	<b>UK-Declaration of Conformity</b> WAGO GmbH & Co. KG	-	-

## Counterpart

Item no.2020-102

[www.wago.com/2020-](http://www.wago.com/2020-)

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1-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 2-pole; 1,50 mm<sup>2</sup>; 102  
gray

**Item no.2020-202**

2-conductor female connector; Push-in CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 2-pole; 1,50 mm<sup>2</sup>; gray

[www.wago.com/2020-202](http://www.wago.com/2020-202)

**Required accessories****End plate**

End plate

**Item no.: 2020-5491**

End and intermediate plate; 1 mm thick; for 4-conductor terminal blocks; gray

[www.wago.com/2020-5491](http://www.wago.com/2020-5491)

**Optional accessories****Ferrule**

Ferrule

**Item no.: 216-241**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

[www.wago.com/216-241](http://www.wago.com/216-241)

**Item no.: 216-242**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

[www.wago.com/216-242](http://www.wago.com/216-242)

**Item no.: 216-243**

Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

[www.wago.com/216-243](http://www.wago.com/216-243)

**Coding**

Coding

**Item no.: 2020-100**

Carrier with 6 coding pins; for coding of female plugs; for carrier terminal blocks; orange

[www.wago.com/2020-100](http://www.wago.com/2020-100)

**Testing and measuring**

Testing accessories

**Item no.: 2009-174**

Test plug adapter; for 4 mm Ø test plugs; for testing TOPJOB®S rail-mounted terminal blocks; gray

[www.wago.com/2009-174](http://www.wago.com/2009-174)

**Item no.: 2009-182**Testing tap; for max. 2.5 mm<sup>2</sup>; tool-free connection for individual test wires 0.08 - 2.5 mm; gray

[www.wago.com/2009-182](http://www.wago.com/2009-182)

**Mounting**

Cover carrier

**Item no.: 709-169**

Cover carrier; Type 3; incl. fixing/retaining screws and knurled nut; suitable for 279 to 282 and 880 Series rail-mounted terminal blocks; suitable for 264 Series miniature rail-mounted terminal blocks; suitable for 270 Series sensor and actuator terminal blocks; gray

[www.wago.com/709-169](http://www.wago.com/709-169)

Cover

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**Item no.: 709-156**

Cover; Type 3; suitable for cover carrier, type 3; 1 m long; transparent

[www.wago.com/709-156](http://www.wago.com/709-156)**Marking accessories**

## Marking strip

**Item no.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

[www.wago.com/2009-110](http://www.wago.com/2009-110)

## Marker carrier

**Item no.: 2000-121**

Adaptor; gray

[www.wago.com/2000-121](http://www.wago.com/2000-121)

## Marker

**Item no.: 2009-113**

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white

[www.wago.com/2009-113](http://www.wago.com/2009-113)**Item no.: 2009-113/000-002**

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; yellow

[www.wago.com/2009-113/000-002](http://www.wago.com/2009-113/000-002)**Item no.: 2009-113/000-012**

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; orange

[www.wago.com/2009-113/000-012](http://www.wago.com/2009-113/000-012)**Item no.: 2009-113/000-007**

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; gray

[www.wago.com/2009-113/000-007](http://www.wago.com/2009-113/000-007)**Item no.: 2009-113/000-005**

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; red

[www.wago.com/2009-113/000-005](http://www.wago.com/2009-113/000-005)**Item no.: 2009-113/000-017**

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; light green

[www.wago.com/2009-113/000-017](http://www.wago.com/2009-113/000-017)**Item no.: 2009-113/000-006**

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; blue

[www.wago.com/2009-113/000-006](http://www.wago.com/2009-113/000-006)**Item no.: 2009-113/000-024**

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; violet

[www.wago.com/2009-113/000-024](http://www.wago.com/2009-113/000-024)**Item no.: 2009-113/000-023**

WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; green

[www.wago.com/2009-113/000-023](http://www.wago.com/2009-113/000-023)**Item no.: 793-3501**

WMB marking card; as card; plain; snap-on type; white

[www.wago.com/793-3501](http://www.wago.com/793-3501)

## Group marker carrier

**Item no.: 2009-191**

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Group marker carrier; gray

[www.wago.com/2009-191](http://www.wago.com/2009-191)**Push-in type wire jumper**

Jumper

**Item no.: 2009-404**Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 110 mm long; gray[www.wago.com/2009-404](http://www.wago.com/2009-404)**Item no.: 2009-402**Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 60 mm long; gray[www.wago.com/2009-402](http://www.wago.com/2009-402)**Item no.: 2009-406**Push-in type wire jumper; 0.75 mm<sup>2</sup>; insulated; 250 mm long; gray[www.wago.com/2009-406](http://www.wago.com/2009-406)**Carrier rail**

Mounting accessories

**Item no.: 210-197**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715; silver-colored

[www.wago.com/210-197](http://www.wago.com/210-197)**Item no.: 210-198**

Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; copper-colored

[www.wago.com/210-198](http://www.wago.com/210-198)**Item no.: 210-113**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

[www.wago.com/210-113](http://www.wago.com/210-113)**Item no.: 210-118**

Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715; silver-colored

[www.wago.com/210-118](http://www.wago.com/210-118)**Item no.: 210-112**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm; silver-colored

[www.wago.com/210-112](http://www.wago.com/210-112)**Item no.: 210-114**

Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

[www.wago.com/210-114](http://www.wago.com/210-114)**Item no.: 210-115**

Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm; silver-colored

[www.wago.com/210-115](http://www.wago.com/210-115)**Item no.: 210-196**

Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715; silver-colored

[www.wago.com/210-196](http://www.wago.com/210-196)**Protective warning marker**

Cover

**Item no.: 2000-115**

Protective warning marker; for 5 terminal blocks; with high-voltage symbol, black; yellow

[www.wago.com/2000-115](http://www.wago.com/2000-115)**Jumpers**

Jumper

**Item no.: 210-123**

Wire commoning chain; insulated; blue

[www.wago.com/210-123](http://www.wago.com/210-123)**Item no.: 2000-408**[www.wago.com/2000-408](http://www.wago.com/2000-408)

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Jumper; 8-way; insulated; light gray

**Item no.: 2000-407**

Jumper; 7-way; insulated; light gray

[www.wago.com/2000-407](http://www.wago.com/2000-407)

**Item no.: 2000-409**

Jumper; 9-way; insulated; light gray

[www.wago.com/2000-409](http://www.wago.com/2000-409)

**Item no.: 2000-408/000-006**

Jumper; 8-way; insulated; blue

[www.wago.com/2000-408/000-006](http://www.wago.com/2000-408/000-006)

**Item no.: 2000-408/000-005**

Jumper; 8-way; insulated; red

[www.wago.com/2000-408/000-005](http://www.wago.com/2000-408/000-005)

**Item no.: 2000-409/000-005**

Jumper; 9-way; insulated; red

[www.wago.com/2000-409/000-005](http://www.wago.com/2000-409/000-005)

**Item no.: 2000-407/000-006**

Jumper; 7-way; insulated; blue

[www.wago.com/2000-407/000-006](http://www.wago.com/2000-407/000-006)

**Item no.: 2000-410**

Jumper; 10-way; insulated; light gray

[www.wago.com/2000-410](http://www.wago.com/2000-410)

**Item no.: 2000-410/000-006**

Jumper; 10-way; insulated; blue

[www.wago.com/2000-410/000-006](http://www.wago.com/2000-410/000-006)

**Item no.: 2000-433/000-005**

Jumper; from 1 to 3; insulated; red

[www.wago.com/2000-433/000-005](http://www.wago.com/2000-433/000-005)

**Item no.: 2000-407/000-005**

Jumper; 7-way; insulated; red

[www.wago.com/2000-407/000-005](http://www.wago.com/2000-407/000-005)

**Item no.: 2000-433/000-006**

Jumper; from 1 to 3; insulated; blue

[www.wago.com/2000-433/000-006](http://www.wago.com/2000-433/000-006)

**Item no.: 2000-410/000-005**

Jumper; 10-way; insulated; red

[www.wago.com/2000-410/000-005](http://www.wago.com/2000-410/000-005)

**Item no.: 2000-435**

Jumper; from 1 to 5; insulated; light gray

[www.wago.com/2000-435](http://www.wago.com/2000-435)

**Item no.: 2000-409/000-006**

Jumper; 9-way; insulated; blue

[www.wago.com/2000-409/000-006](http://www.wago.com/2000-409/000-006)

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<b>Item no.: 2000-436</b> Jumper; from 1 to 6; insulated; light gray	<a href="http://www.wago.com/2000-436">www.wago.com/2000-436</a>
<b>Item no.: 2000-433</b> Jumper; from 1 to 3; insulated; light gray	<a href="http://www.wago.com/2000-433">www.wago.com/2000-433</a>
<b>Item no.: 2000-434</b> Jumper; from 1 to 4; insulated; light gray	<a href="http://www.wago.com/2000-434">www.wago.com/2000-434</a>
<b>Item no.: 2000-402</b> Jumper; 2-way; insulated; light gray	<a href="http://www.wago.com/2000-402">www.wago.com/2000-402</a>
<b>Item no.: 2000-402/000-006</b> Jumper; 2-way; insulated; blue	<a href="http://www.wago.com/2000-402/000-006">www.wago.com/2000-402/000-006</a>
<b>Item no.: 2000-403</b> Jumper; 3-way; insulated; light gray	<a href="http://www.wago.com/2000-403">www.wago.com/2000-403</a>
<b>Item no.: 2000-402/000-005</b> Jumper; 2-way; insulated; red	<a href="http://www.wago.com/2000-402/000-005">www.wago.com/2000-402/000-005</a>
<b>Item no.: 2000-402/000-018</b> Jumper; 2-way; insulated; yellow-green	<a href="http://www.wago.com/2000-402/000-018">www.wago.com/2000-402/000-018</a>
<b>Item no.: 2000-404</b> Jumper; 4-way; insulated; light gray	<a href="http://www.wago.com/2000-404">www.wago.com/2000-404</a>
<b>Item no.: 2000-403/000-005</b> Jumper; 3-way; insulated; red	<a href="http://www.wago.com/2000-403/000-005">www.wago.com/2000-403/000-005</a>
<b>Item no.: 2000-404/000-006</b> Jumper; 4-way; insulated; blue	<a href="http://www.wago.com/2000-404/000-006">www.wago.com/2000-404/000-006</a>
<b>Item no.: 2000-403/000-006</b> Jumper; 3-way; insulated; blue	<a href="http://www.wago.com/2000-403/000-006">www.wago.com/2000-403/000-006</a>
<b>Item no.: 2000-404/000-005</b> Jumper; 4-way; insulated; red	<a href="http://www.wago.com/2000-404/000-005">www.wago.com/2000-404/000-005</a>
<b>Item no.: 2000-405</b> Jumper; 5-way; insulated; light gray	<a href="http://www.wago.com/2000-405">www.wago.com/2000-405</a>
<b>Item no.: 2000-405/011-000</b> Star point jumper; 3-way; insulated; light gray	<a href="http://www.wago.com/2000-405/011-000">www.wago.com/2000-405/011-000</a>

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<p><b>Item no.: 2000-405/000-006</b>                  Jumper; 5-way; insulated; blue</p>	<p><a href="http://www.wago.com/2000-405/000-006">www.wago.com/2000-405/000-006</a></p>
<p><b>Item no.: 2000-406/000-006</b>                  Jumper; 6-way; insulated; blue</p>	<p><a href="http://www.wago.com/2000-406/000-006">www.wago.com/2000-406/000-006</a></p>
<p><b>Item no.: 2000-405/000-005</b>                  Jumper; 5-way; insulated; red</p>	<p><a href="http://www.wago.com/2000-405/000-005">www.wago.com/2000-405/000-005</a></p>
<p><b>Item no.: 2000-406</b>                  Jumper; 6-way; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-406">www.wago.com/2000-406</a></p>
<p><b>Item no.: 2000-406/000-005</b>                  Jumper; 6-way; insulated; red</p>	<p><a href="http://www.wago.com/2000-406/000-005">www.wago.com/2000-406/000-005</a></p>
<p><b>Item no.: 2000-406/020-000</b>                  Delta jumper; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-406/020-000">www.wago.com/2000-406/020-000</a></p>
<p><b>Item no.: 2000-437</b>                  Jumper; from 1 to 7; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-437">www.wago.com/2000-437</a></p>
<p><b>Item no.: 2000-438</b>                  Jumper; from 1 to 8; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-438">www.wago.com/2000-438</a></p>
<p><b>Item no.: 2000-439</b>                  Jumper; from 1 to 9; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-439">www.wago.com/2000-439</a></p>
<p><b>Item no.: 2000-440</b>                  Jumper; from 1 to 10; insulated; light gray</p>	<p><a href="http://www.wago.com/2000-440">www.wago.com/2000-440</a></p>
<p><b>Item no.: 210-103</b>                  Wire commoning chain; insulated; black</p>	<p><a href="http://www.wago.com/210-103">www.wago.com/210-103</a></p>

**Tool**

Operating tool	
<p><b>Item no.: 210-648</b>                  Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short</p>	<p><a href="http://www.wago.com/210-648">www.wago.com/210-648</a></p>
<p><b>Item no.: 210-647</b>                  Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured</p>	<p><a href="http://www.wago.com/210-647">www.wago.com/210-647</a></p>
<p><b>Item no.: 210-719</b>                  Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft</p>	<p><a href="http://www.wago.com/210-719">www.wago.com/210-719</a></p>

**Downloads  
 Documentation**

Subject to changes. Please also observe the further product documentation!



### Bid Text

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### Additional Information

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### CAD/CAE-Data

#### CAD data

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#### CAE data

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### Environmental Product Compliance

#### Compliance Search

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4-conductor sensor supply terminal block; for PNP (positive) switching sensors; with ground contact; 1 mm<sup>2</sup>; Push-in CAGE CLAMP®; 1,00 mm<sup>2</sup>; orange

### Installation Notes

#### Installation

Subject to changes. Please also observe the further product documentation!



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



Separate terminal block assembly and slide individual terminal blocks laterally using an operating tool.

### Conductor termination



All conductor types at a glance

### Testing



Testing via testing tap (2009-182) or test plug adapter (2009-174) (up to max. 42 V).

### Coding

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Subject to changes. Please also observe the further product documentation!



Insert coding pin into the corresponding slot and twist it off.



Remove the coding finger using a cutting tool.

### Locking system



Slide the locking lever into position.

### Strain relief



Removing a female plug via conductor bundle provided with strain relief plate.

### Marking

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Subject to changes. Please also observe the further product documentation!



Labeling terminal blocks via marking strips (2009-110) or 3.5 mm wide WMB markers (793-35xx) – from the top or the side.

## Product family

### TOPJOB® S

TOPJOB® S: In various industrial applications and modern building installations, WAGO's wide and versatile range of rail-mount terminal blocks provides more than just reliable electrical connections.

[Show all products from the family](#)

Subject to changes. Please also observe the further product documentation!