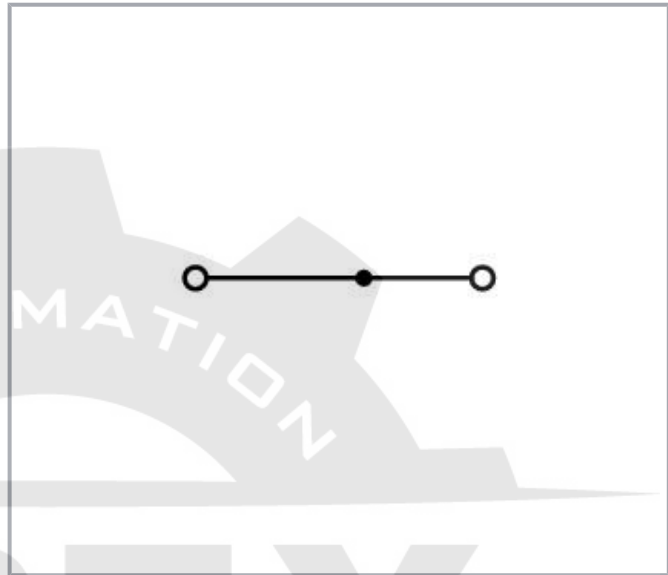
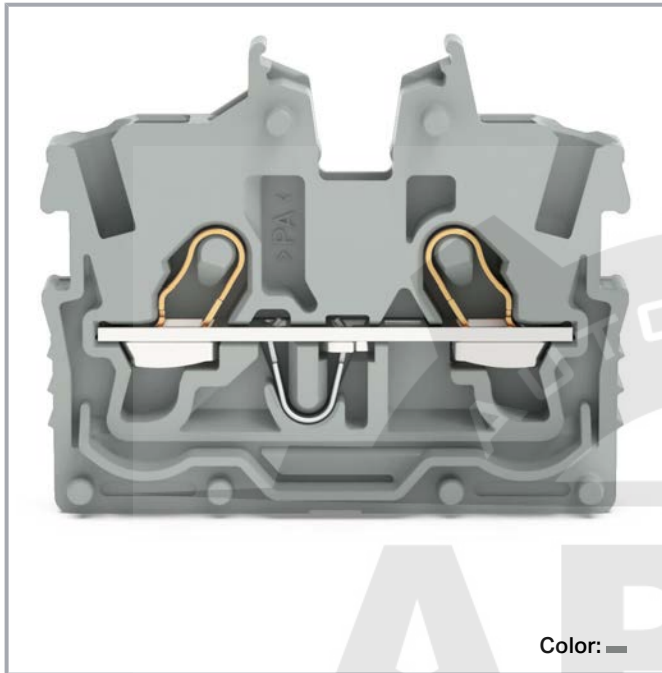


Data sheet | Item number: 2050-321

TOPJOB®S miniature feedthrough terminal block; center terminal block
without snap-in foot; 2-conductor; 3.5 mm wide; gray

www.wago.com/2050-321



Color: —

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

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**Data****Electrical data****IEC Approvals**

Ratings per	IEC/EN 60947-7-1
Rated voltage (III / 3)	500 V
Rated surge voltage (III/3)	6 kV
Rated current	13.5 A
Rated current 2	17.5 A
Legend (ratings)	(III / 3) $\triangleq$ Overvoltage category III / Pollution degree 3

UL Approvals

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group C)	300 V

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Rated current UL (Use Group C)	10 A
--------------------------------	------

CSA Approvals

Approvals per	C22.2 No 158
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	10 A

Ex information

Ratings per	ATEX: PTB 19 ATEX 1019 U / IECEx: PTB 19.0050U (Ex eb IIC Gb)
Rated voltage EN (Ex e II)	352 V
Rated current (Ex e II)	13.5 A
Rated current (Ex e II) with jumper	12 A

Connection data

Connection technology	Push-in CAGE CLAMP®
Actuation type	Push-in Open Tool Slot
Connectable conductor materials	Copper Copper
Nominal cross-section	1 mm²
Solid conductor	0.14 ... 1.5 mm² / 24 ... 16 AWG
Solid conductor; push-in termination	0.5 ... 1.5 mm² / 20 ... 16 AWG
Fine-stranded conductor	0.14 ... 1.5 mm² / 24 ... 16 AWG
Fine-stranded conductor; with insulated ferrule	0.14 ... 0.75 mm² / 24 ... 18 AWG
Fine-stranded conductor; with ferrule; push-in termination	0.5 ... 0.75 mm² / 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 inch
Total number of connection points	2
Total number of potentials	1
Number of levels	1
Wiring direction	Front-entry wiring
Number of jumper slots	1

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Physical data

Width	3.5 mm / 0.138 inch
Height from the surface	27.2 mm / 1.071 inch
Depth	33.2 mm / 1.307 inch

Mechanical data

Design	horizontal type
Marking level	Center/side marking

Material data

Color	gray
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Weight	2.3 g

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143964784
Customs tariff number	8536904000

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX Physikalisch Technische Bundesanstalt	EN IEC 60079-0	PTB 19 ATEX 1019 U (II 2G Ex eb IIC Gb or I M 2 EX eb I Mb)
	CCCEX CQST/CNEx	CNCA-C23-01	2020312313000289
	IECEX Physikalisch Technische Bundesanstalt	IEC 60079	IECEX PTB 19.0050 U (Ex eb IIC Gb or EX eb I Mb)

Country specific Approvals

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Logo	Approval	Additional Approval Text	Certificate name
	CCA DEKRA Certification B.V.	EN 60998	NTR NL 7840
	CSA CSA	C22.2 No. 158	80034182
	KEMA/KEUR DEKRA Certification B.V.	EN 60998	71- 113957

UL-Approvals

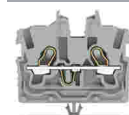
Logo	Approval	Additional Approval Text	Certificate name
	cURus Underwriters Laboratories Inc.	UL 1059	E45172- 20200212

Counterpart



Item no. 2050-301

TOPJOB®S miniature feedthrough terminal block; mounting flange; 2-conductor; 3.5 mm wide; gray

www.wago.com/2050-301

Item no. 2050-311

TOPJOB®S miniature feedthrough terminal block; snap-in mounting foot; 2-conductor; 3.5 mm wide; gray

www.wago.com/2050-311

Optional accessories

Jumpers



Item no.: 2000-402

TOPJOB®S jumper; for 2000 series; insulated; 2-way; light-gray

www.wago.com/2000-402

Item no.: 2000-402/000-005

TOPJOB®S jumper; for 2000 series; insulated; 2-way; red

www.wago.com/2000-402/000-005

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

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Item no.: 2000-402/000-006
TOPJOB®S jumper; for 2000 series; insulated; 2-way; blue

www.wago.com/2000-402/000-006



Item no.: 2000-402/000-018
TOPJOB®S jumper; for 2000 series; insulated; 2-way; green-yellow

www.wago.com/2000-402/000-018



Item no.: 2000-403
TOPJOB®S jumper; for 2000 series; insulated; 3-way; light-gray

www.wago.com/2000-403



Item no.: 2000-403/000-005
TOPJOB®S jumper; for 2000 series; insulated; 3-way; red

www.wago.com/2000-403/000-005



Item no.: 2000-403/000-006
TOPJOB®S jumper; for 2000 series; insulated; 3-way; blue

www.wago.com/2000-403/000-006



Item no.: 2000-404
TOPJOB®S jumper; for 2000 series; insulated; 4-way; light-gray

www.wago.com/2000-404



Item no.: 2000-404/000-005
TOPJOB®S jumper; for 2000 series; insulated; 4-way; red

www.wago.com/2000-404/000-005



Item no.: 2000-404/000-006
TOPJOB®S jumper; for 2000 series; insulated; 4-way; blue

www.wago.com/2000-404/000-006



Item no.: 2000-405
TOPJOB®S jumper; for 2000 series; insulated; 5-way; light-gray

www.wago.com/2000-405



Item no.: 2000-405/000-005
TOPJOB®S jumper; for 2000 series; insulated; 5-way; red

www.wago.com/2000-405/000-005



Item no.: 2000-405/000-006
TOPJOB®S jumper; for 2000 series; insulated; 5-way; blue

www.wago.com/2000-405/000-006



Item no.: 2000-405/011-000
TOPJOB®S jumper; Wye configuration; for 2000 series; insulated; 3-way (1-3-5); light-gray

www.wago.com/2000-405/011-000



Item no.: 2000-406
TOPJOB®S jumper; for 2000 series; insulated; 6-way; light-gray

www.wago.com/2000-406



Item no.: 2000-406/000-005
TOPJOB®S jumper; for 2000 series; insulated; 6-way; red

www.wago.com/2000-406/000-005



Item no.: 2000-406/000-006
TOPJOB®S jumper; for 2000 series; insulated; 6-way; blue

www.wago.com/2000-406/000-006

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

	Item no.: 2000-406/020-000 TOPJOB®S jumper; Delta configuration; for 2000 series; insulated; 6-way (1-2, 3-4, 5-6); light-gray	www.wago.com/2000-406/020-000
	Item no.: 2000-407 TOPJOB®S jumper; for 2000 series; insulated; 7-way; light-gray	www.wago.com/2000-407
	Item no.: 2000-407/000-005 TOPJOB®S jumper; for 2000 series; insulated; 7-way; red	www.wago.com/2000-407/000-005
	Item no.: 2000-407/000-006 TOPJOB®S jumper; for 2000 series; insulated; 7-way; blue	www.wago.com/2000-407/000-006
	Item no.: 2000-408 TOPJOB®S jumper; for 2000 series; insulated; 8-way; light-gray	www.wago.com/2000-408
	Item no.: 2000-408/000-005 TOPJOB®S jumper; for 2000 series; insulated; 8-way; red	www.wago.com/2000-408/000-005
	Item no.: 2000-408/000-006 TOPJOB®S jumper; for 2000 series; insulated; 8-way; blue	www.wago.com/2000-408/000-006
	Item no.: 2000-409 TOPJOB®S jumper; for 2000 series; insulated; 9-way; light-gray	www.wago.com/2000-409
	Item no.: 2000-409/000-005 TOPJOB®S jumper; for 2000 series; insulated; 9-way; red	www.wago.com/2000-409/000-005
	Item no.: 2000-409/000-006 TOPJOB®S jumper; for 2000 series; insulated; 9-way; blue	www.wago.com/2000-409/000-006
	Item no.: 2000-410 TOPJOB®S jumper; for 2000 series; insulated; 10-way; light-gray	www.wago.com/2000-410
	Item no.: 2000-410/000-005 TOPJOB®S jumper; for 2000 series; insulated; 10-way; red	www.wago.com/2000-410/000-005
	Item no.: 2000-410/000-006 TOPJOB®S jumper; for 2000 series; insulated; 10-way; blue	www.wago.com/2000-410/000-006
	Item no.: 2000-433 TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-3); light-gray	www.wago.com/2000-433

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

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

TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-3); red

www.wago.com/2000-433/000-005**Item no.: 2000-433/000-006**

TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-3); blue

www.wago.com/2000-433/000-006**Item no.: 2000-434**

TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-4); light-gray

www.wago.com/2000-434**Item no.: 2000-435**

TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-5); light-gray

www.wago.com/2000-435**Item no.: 2000-436**

TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-6); light-gray

www.wago.com/2000-436**Item no.: 2000-437**

TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-7); light-gray

www.wago.com/2000-437**Item no.: 2000-438**

TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-8); light-gray

www.wago.com/2000-438**Item no.: 2000-439**

TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-9); light-gray

www.wago.com/2000-439**Item no.: 2000-440**

TOPJOB®S jumper; for 2000 series; insulated; 2-way (1-10); light-gray

www.wago.com/2000-440**Tools****Item no.: 210-647**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-647**Item no.: 210-648**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft; angled; short

www.wago.com/210-648**Item no.: 210-719**

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

www.wago.com/210-719**Push-in type wire jumper****Item no.: 2009-402**TOPJOB®S wire jumper; insulated; 60 mm long; conductor cross section 0.75 mm²; suitable for 2000 and 2020 series terminal blocks; graywww.wago.com/2009-402**Item no.: 2009-404**TOPJOB®S wire jumper; insulated; 110 mm long; conductor cross section 0.75 mm²; suitable for 2000 and 2020 series terminal blocks; graywww.wago.com/2009-404**Item no.: 2009-406**TOPJOB®S wire jumper; insulated; 250 mm long; conductor cross section 0.75 mm²; suitable for 2000 and 2020 series terminal blocks; graywww.wago.com/2009-406**Protective warning marker****Item no.: 2000-115**

TOPJOB®S protective warning marker; with high-voltage symbol, for 2000 series terminal blocks; for 5

www.wago.com/2000-115

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

terminal blocks

Testing accessories

	Item no.: 2009-174 TOPJOB®S test plug adapter; for test plug 4 mm Ø; for testing TOPJOB®S terminal blocks; gray	www.wago.com/2009-174
	Item no.: 2009-182 TOPJOB®S testing tap; tool-free; 12 AWG max; for testing TOPJOB®S terminal blocks; gray	www.wago.com/2009-182
	Item no.: 210-136 Test plug; 2 mm Ø; with 500 mm cable	www.wago.com/210-136

Marking accessories

	Item no.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	www.wago.com/2009-110
	Item no.: 2009-113 WMB-Inline; for Smart Printer; 2300 pieces on roll; plain; snap-on type; white	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
	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
	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
	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
	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
	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
	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
	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
	Item no.: 2009-191 Group marker carrier	www.wago.com/2009-191

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

Item no.: 793-3501

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

www.wago.com/793-3501

Ferrules

	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	www.wago.com/216-241
	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-242
	Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-243

Downloads

Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 2.2 MB	Download
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CAD files

CAD data

2D/3D Models 2050-321	URL	Download
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CAE data

ZUKEN Portal 2050-321	URL	Download
	URL	Download
EPLAN Data Portal 2050-321	URL	Download

Environmental Product Compliance

Compliance Search

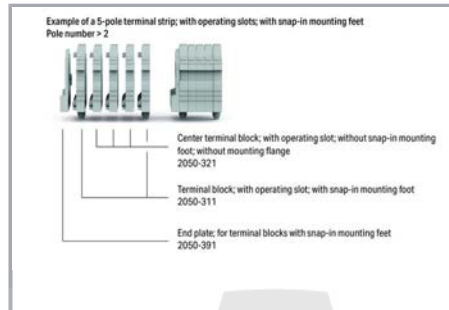
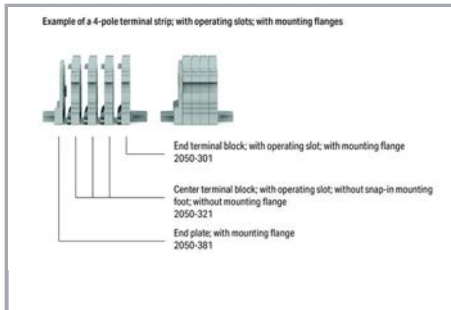
Environmental Product Compliance 2050-321	URL	Download
2-conductor miniature through terminal block; with operating slots; 1 mm ² ; with test port; side and center marking; Center terminal block without snap-in mounting foot, without mounting flange; Push-in CAGE CLAMP®; 1,00 mm ² ; gray		

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

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Installation Notes



Conductor termination



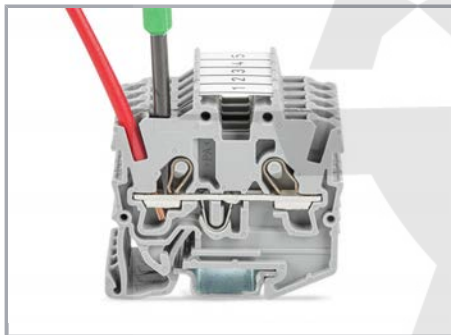
Insert solid conductors via push-in termination.



Insert ferruled conductors via push-in termination.



Insert fine-stranded conductors via operating tool.



Remove all conductors via operating tool.

Commoning

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

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Insert a jumper (delta jumper) and push down until it hits the backstop (picture shows terminal blocks with push-buttons).



Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (picture shows terminal blocks with push-buttons)



Insert a jumper (star point jumper) and push down until it hits the backstop (picture shows terminal blocks with push-buttons).



Marking strip (2009-110) inserted in the marking slot with jumper symbols of the inserted jumper (2000-405/011-000 Delta Jumper) (picture shows terminal blocks with push-buttons)

Testing



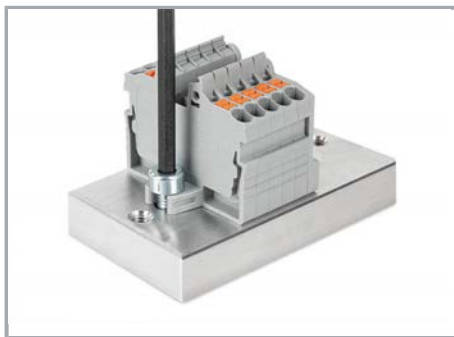
Testing with a 2 mm Ø 210-136 Test Plug (max. 42 V).

Installation

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

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Mounting and securing a terminal strip directly to the plate via screw-type flanges (picture shows terminal blocks with push-buttons).



Terminal strip; with mounting flanges; screw mounting (picture shows terminal blocks with push-buttons)

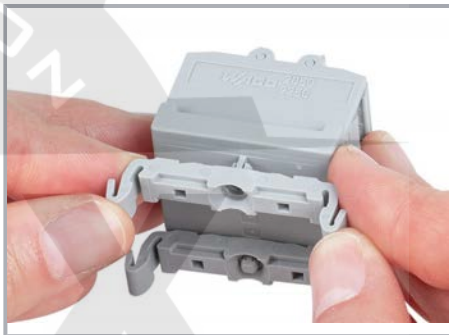
Installation



Mounting a terminal strip with snap-in feet into holes.



Mounting a terminal strip with snap-in feet onto aluminum rail.



Terminal strip; with snap-in mounting feet
Snapping a mounting foot (209-120)
(Distance between mounting feet: approx. 20 ... 25 mm)



Terminal strip; with snap-in mounting feet; for DIN-35 rail (209-120 Mounting Foot) (picture shows terminal blocks with push-buttons)

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Marking



Snapping a WMB marking strip into a marker slot.



Snapping a marking strip (2009-110) into a marker slot.

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!

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