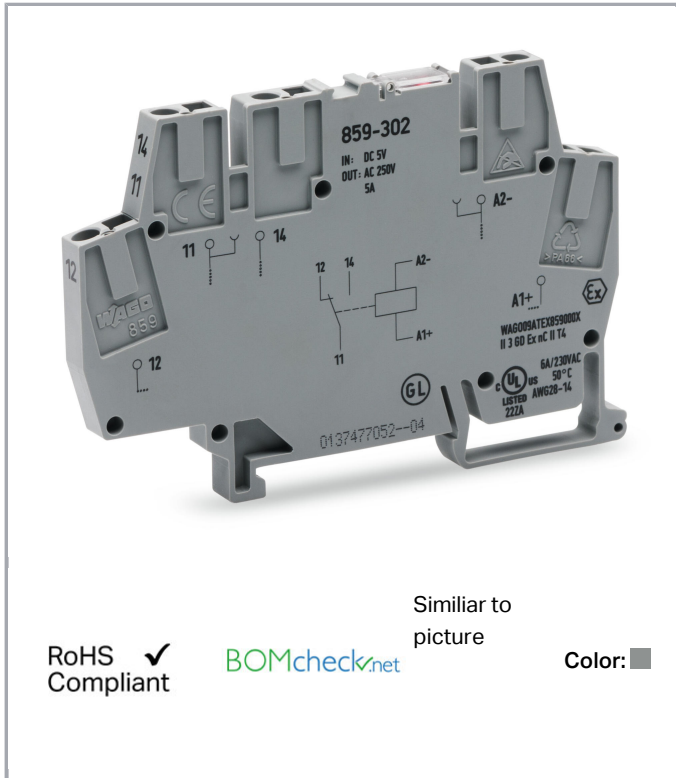


Data sheet | Item number: 859-304

Relay module; Nominal input voltage: 24 VDC; 1 changeover contact; Red status indicator; Module width: 6 mm; 2,50 mm²; gray

www.wago.com/859-304

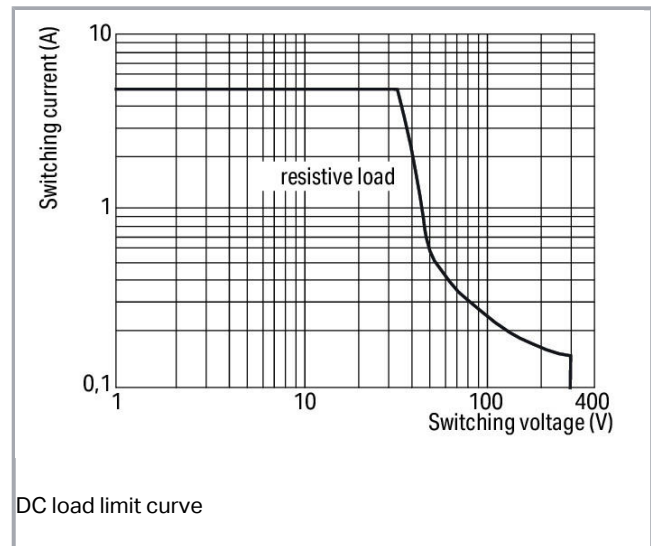
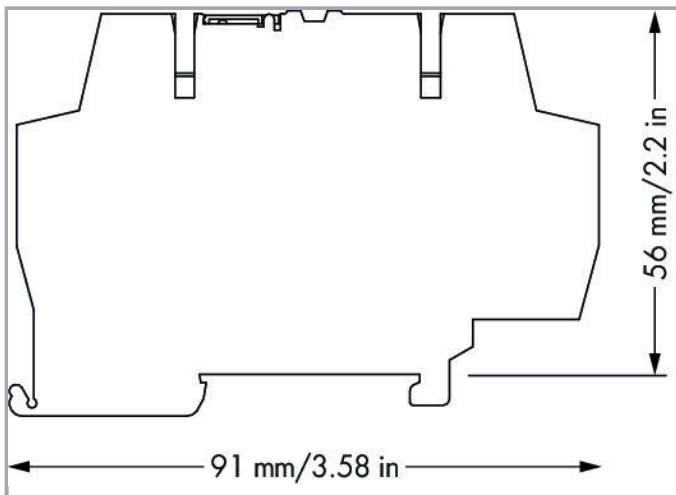
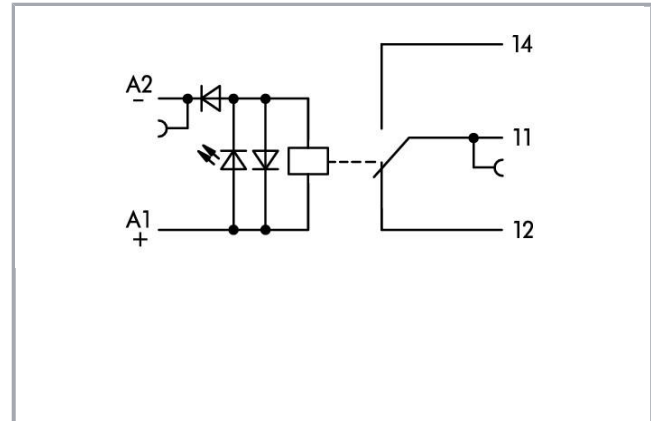


RoHS
Compliant

BOMcheck.net

Similar to
picture

Color: ■



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Item description

Note:

To protect the relay coils and contacts, inductive loads must be dampened with an effective protection circuit.

Data

Technical Data

Control circuit

Nominal input voltage U_N	DC 24 V
Input voltage range	-15 ... +20 %
Nominal input current at U_N	10 mA

Load circuit:

Number of changeover/switchover contacts	1
Contact material (relay)	AgSnO ₂
Limiting continuous current	5 A
Inrush current (resistive) (max.)	(AC) 20 A / 0,02 s
Switching voltage (max.)	AC 250 V
Switching power (resistive) (max.)	AC 1250 VA; DC (see load limit curve)
Recommended minimum load	10 V / 10 mA; 24 V / 1 mA
Pull-in time (typ.)	15 ms
Drop-out time (typ.)	25 ms
Bounce time (typ.)	3.5 ms
Electrical life (NO; resistive load; 23 °C)	50 x 10 ³ switching operations
Mechanical life	5 x 10 ⁶ switching operations
Switching frequency with/without load (max.)	6 min ⁻¹ / 180 min ⁻¹

Signaling

Status indicator	Red LED
------------------	---------

Safety and protection:

Rated voltage	250 V
Rated surge voltage	4 kV

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



Pollution degree	2
Dielectric strength, control/load circuit (AC, 1 min)	4 kVrms
Dielectric strength, open contact (AC, 1 min)	1 kVrms

Connection data

Connection technology	CAGE CLAMP®
Solid conductor	0,08 ... 2,5 mm² / 28 ... 14 AWG
Fine-stranded conductor	0,08 ... 2,5 mm² / 28 ... 14 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inch

Geometrical Data

Width	6 mm / 0.236 inch
Height from upper-edge of DIN-rail	56 mm / 2.205 inch
Depth	91 mm / 3.583 inch

Mechanical data

Mounting type	DIN-35 rail
---------------	-------------

Material Data

Color	gray
Fire load	0.503 MJ
Weight	22.9 g

Environmental Requirements

Surrounding air temperature (operation at U_N)	-40 ... 50 °C
Surrounding air temperature (storage)	-40 ... 70 °C
Processing temperature	-25 ... +50 °C

Standards and specifications

Standards/specifications	EN 61010-2-201; EN 61810-1; EN 61373; GL; UL 508
--------------------------	--

Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	CN

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GTIN	4055143606769
Customs tariff number	85364900990

Approvals / Certificates

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAA00001D1
	NK Nippon Kaiji Kyokai	-	TA17255M
	PRS Polski Rejestr Statków	-	TE/2186 /880590/18

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL UL International Netherlands B.V. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4

Counterpart

Compatible products

Jumper

	Item no.: 859-402 Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; light gray	www.wago.com/859-402
--	--	--

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**Item no.: 859-402/000-005**

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; red

www.wago.com/859-402/000-005**Item no.: 859-402/000-006**

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; blue

www.wago.com/859-402/000-006**Item no.: 859-402/000-029**

Push-in type jumper bar; 2-way; Nominal current 18 A; insulated; yellow

www.wago.com/859-402/000-029**Item no.: 859-403**

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; light gray

www.wago.com/859-403**Item no.: 859-403/000-005**

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; red

www.wago.com/859-403/000-005**Item no.: 859-403/000-006**

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; blue

www.wago.com/859-403/000-006**Item no.: 859-403/000-029**

Push-in type jumper bar; 3-way; Nominal current 18 A; insulated; yellow

www.wago.com/859-403/000-029**Item no.: 859-404**

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; light gray

www.wago.com/859-404**Item no.: 859-404/000-005**

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; red

www.wago.com/859-404/000-005**Item no.: 859-404/000-006**

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; blue

www.wago.com/859-404/000-006**Item no.: 859-404/000-029**

Push-in type jumper bar; 4-way; Nominal current 18 A; insulated; yellow

www.wago.com/859-404/000-029**Item no.: 859-405**

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; light gray

www.wago.com/859-405**Item no.: 859-405/000-005**

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; red

www.wago.com/859-405/000-005**Item no.: 859-405/000-006**

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; blue

www.wago.com/859-405/000-006

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**Item no.: 859-405/000-029**

Push-in type jumper bar; 5-way; Nominal current 18 A; insulated; yellow

www.wago.com/859-405/000-029**Item no.: 859-406**

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; light gray

www.wago.com/859-406**Item no.: 859-406/000-005**

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; red

www.wago.com/859-406/000-005**Item no.: 859-406/000-006**

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; blue

www.wago.com/859-406/000-006**Item no.: 859-406/000-029**

Push-in type jumper bar; 6-way; Nominal current 18 A; insulated; signal yellow

www.wago.com/859-406/000-029**Item no.: 859-407**

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; light gray

www.wago.com/859-407**Item no.: 859-407/000-005**

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; red

www.wago.com/859-407/000-005**Item no.: 859-407/000-006**

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; blue

www.wago.com/859-407/000-006**Item no.: 859-407/000-029**

Push-in type jumper bar; 7-way; Nominal current 18 A; insulated; yellow

www.wago.com/859-407/000-029**Item no.: 859-408**

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; light gray

www.wago.com/859-408**Item no.: 859-408/000-005**

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; red

www.wago.com/859-408/000-005**Item no.: 859-408/000-006**

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; blue

www.wago.com/859-408/000-006**Item no.: 859-408/000-029**

Push-in type jumper bar; 8-way; Nominal current 18 A; insulated; yellow

www.wago.com/859-408/000-029**Item no.: 859-409**

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; light gray

www.wago.com/859-409

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

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**Item no.: 859-409/000-005**

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; red

www.wago.com/859-409/000-005**Item no.: 859-409/000-006**

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; blue

www.wago.com/859-409/000-006**Item no.: 859-409/000-029**

Push-in type jumper bar; 9-way; Nominal current 18 A; insulated; yellow

www.wago.com/859-409/000-029**Item no.: 859-410**

Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; light gray

www.wago.com/859-410**Item no.: 859-410/000-005**

Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; red

www.wago.com/859-410/000-005**Item no.: 859-410/000-006**

Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; blue

www.wago.com/859-410/000-006**Item no.: 859-410/000-029**

Push-in type jumper bar; 10-way; Nominal current 18 A; insulated; yellow

www.wago.com/859-410/000-029**Marking accessories****Item no.: 2009-145**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/2009-145**Item no.: 2009-145/000-002**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

www.wago.com/2009-145/000-002**Item no.: 2009-145/000-005**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red

www.wago.com/2009-145/000-005**Item no.: 2009-145/000-006**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue

www.wago.com/2009-145/000-006**Item no.: 2009-145/000-007**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray

www.wago.com/2009-145/000-007**Item no.: 2009-145/000-012**

Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange

www.wago.com/2009-145/000-012**Item no.: 2009-145/000-023**

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

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	Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green	www.wago.com/2009-145/000-023
	Item no.: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet	www.wago.com/2009-145/000-024
	Item no.: 210-110 Fiber-tip pen	www.wago.com/210-110
	Item no.: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card	www.wago.com/248-501
	Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow	www.wago.com/248-501/000-002
	Item no.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red	www.wago.com/248-501/000-005
	Item no.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue	www.wago.com/248-501/000-006
	Item no.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray	www.wago.com/248-501/000-007
	Item no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange	www.wago.com/248-501/000-012
	Item no.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green	www.wago.com/248-501/000-017
	Item no.: 248-501/000-023 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green	www.wago.com/248-501/000-023
	Item no.: 248-501/000-024 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet	www.wago.com/248-501/000-024
	Item no.: 248-502 Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white	www.wago.com/248-502
	Item no.: 248-502/000-024 Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; violet	www.wago.com/248-502/000-024

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

**Item no.: 248-503**

Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white

www.wago.com/248-503**Item no.: 248-503/000-024**

Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; violet

www.wago.com/248-503/000-024**Item no.: 248-504**

Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

www.wago.com/248-504**Item no.: 248-504/000-024**

Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; violet

www.wago.com/248-504/000-024**Item no.: 248-505/000-024**

Mini-WSB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; violet

www.wago.com/248-505/000-024**Item no.: 248-506**

Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white

www.wago.com/248-506**Item no.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white

www.wago.com/793-501**Item no.: 793-501/000-002**

WMB marking card; as card; not stretchable; plain; snap-on type; yellow

www.wago.com/793-501/000-002**Item no.: 793-501/000-005**

WMB marking card; as card; not stretchable; plain; snap-on type; red

www.wago.com/793-501/000-005**Item no.: 793-501/000-006**

WMB marking card; as card; not stretchable; plain; snap-on type; blue

www.wago.com/793-501/000-006**Item no.: 793-501/000-007**

WMB marking card; as card; not stretchable; plain; snap-on type; gray

www.wago.com/793-501/000-007**Item no.: 793-501/000-012**

WMB marking card; as card; not stretchable; plain; snap-on type; orange

www.wago.com/793-501/000-012**Item no.: 793-501/000-017**

WMB marking card; as card; not stretchable; plain; snap-on type; light green

www.wago.com/793-501/000-017**Item no.: 793-501/000-023**

WMB marking card; as card; not stretchable; plain; snap-on type; green

www.wago.com/793-501/000-023

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**Item no.: 793-501/000-024**

WMB marking card; as card; not stretchable; plain; snap-on type; violet

www.wago.com/793-501/000-024**Item no.: 793-5501**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

www.wago.com/793-5501**Item no.: 793-5501/000-002**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; yellow

www.wago.com/793-5501/000-002**Item no.: 793-5501/000-005**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; red

www.wago.com/793-5501/000-005**Item no.: 793-5501/000-006**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; blue

www.wago.com/793-5501/000-006**Item no.: 793-5501/000-007**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; gray

www.wago.com/793-5501/000-007**Item no.: 793-5501/000-012**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; orange

www.wago.com/793-5501/000-012**Item no.: 793-5501/000-017**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; green

www.wago.com/793-5501/000-017**Item no.: 793-5501/000-023**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; light green

www.wago.com/793-5501/000-023**Item no.: 793-5501/000-024**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; violet

www.wago.com/793-5501/000-024**tools****Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

www.wago.com/210-720**check****Item no.: 859-500**

Test pin; 1 mm Ø; with solder connection for test wire

www.wago.com/859-500**ferrule****Item no.: 216-221**Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; whitewww.wago.com/216-221**Item no.: 216-222**Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; graywww.wago.com/216-222

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	Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-223
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-224
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green	www.wago.com/216-322
End plate		
	Item no.: 859-525 End and intermediate plate; 1 mm thick; gray	www.wago.com/859-525

Downloads

Documentation

Bid Text

859-304 GAEB X81 - Datei	Feb 19, 2019	xml 4.6 kB	Download
859-304 GAEB docx - Datei	Feb 20, 2019	docx 17.2 kB	Download

Instruction Leaflet

Relay modules, Optocoupler modules	V 1.2.0 Aug 30, 2019	pdf 2.2 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 859-304	URL	Download
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CAE data

EPLAN Data Portal 859-304	URL	Download
WSCAD Universe 859-304	URL	Download

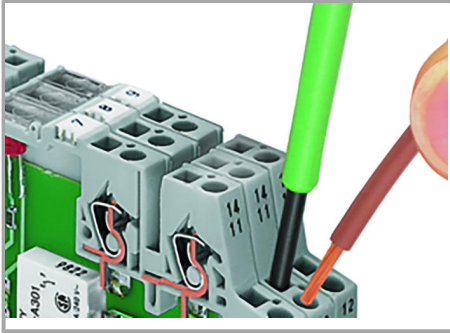
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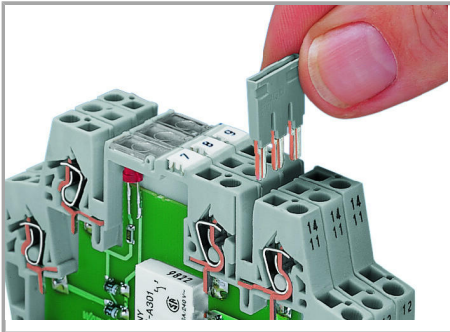
Installation Notes

Conductor termination



Connection of conductor

Commoning



Easy commoning using adjacent jumpers

Marking



Marking using miniature WSB quick marking card

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