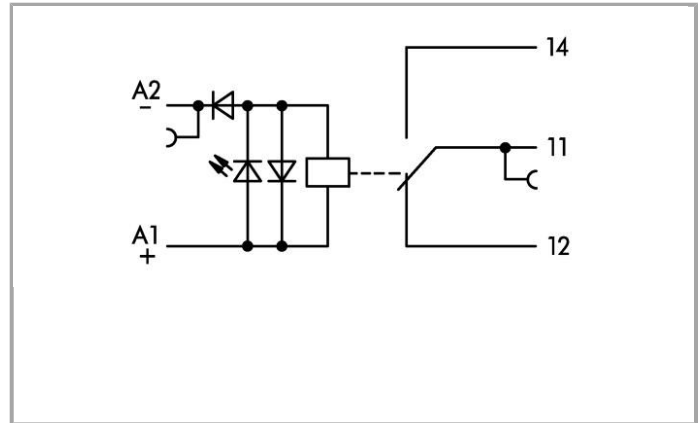
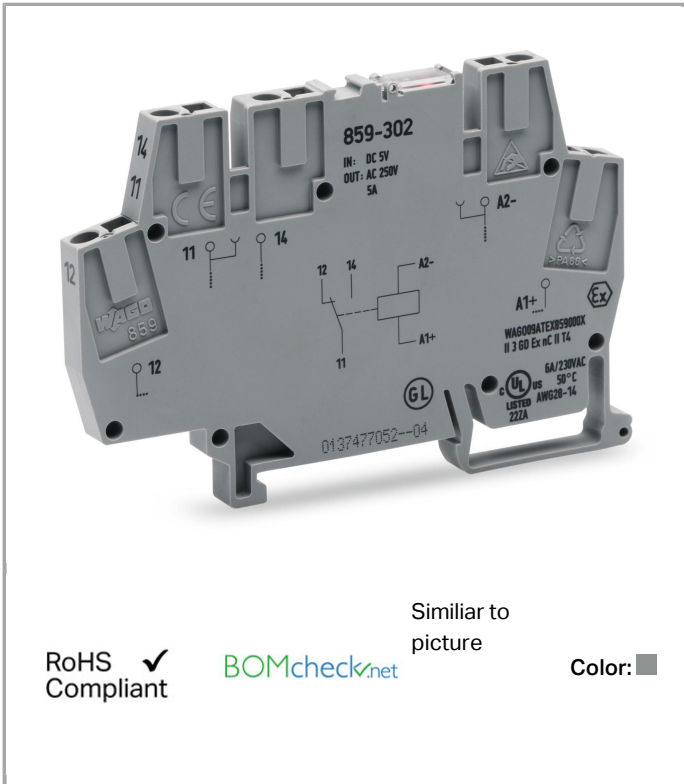


Data sheet | Item number: 859-305

Relay module; Nominal input voltage: 48 VDC; 1 changeover contact; Red status indicator; Module width: 6 mm



www.wago.com/859-305

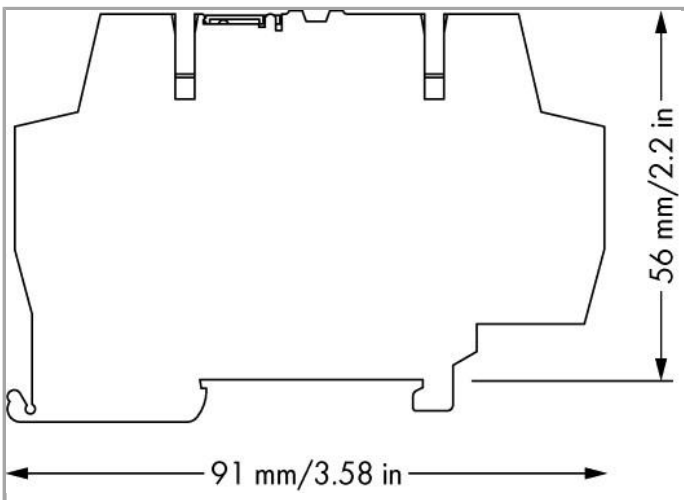


RoHS Compliant

BOMcheck.net

Similar to picture

Color: ■



Item description

Short description:

With a large variety of relay modules, the 859 Series will suit any industrial interface application.

The compact, 6mm-wide housing is ideal for space-restricted control panels. Simple commoning at the control and load side streamlines looping through of common input and output potentials.

A robust design and vibration-proof CAGE CLAMP® spring pressure connection technology ensure continuous and uninterrupted operation for any system.

Note:

Inductive loads have to be attenuated by an appropriate protective circuit in order to protect relay coils and contacts.

Data**Technical Data****Control circuit**

Nominal input voltage U_N	48 VDC
Input voltage range	-15 ... +20 %
Nominal input current at U_N	6.5 mA

Load circuit:

Number of changeover/switchover contacts	1
Contact material (relay)	AgSnO ₂
Limiting continuous current	5 A
Max. make current (resistive)	4 s 10 A (AC)
Max. switching voltage	250 VAC
Max. switching power (resistive)	1250 VAAC; DC see load limit curve
Recommended minimum load	10 V / 10 mA; 24 V / 1 mA
Pull-in time (typ.)	8 ms
Drop-out time (typ.)	4 ms
Bounce time (typ.)	5 ms
Electrical life (N.O.; resistive load; 23 °C)	50 x 10 ³ switching operations
Mechanical life (N.O.; resistive load; 23 °C)	5 x 10 ⁶ switching operations
Max. switching load with load/without load	6 min ⁻¹ / 180 min ⁻¹

Signaling

Status indication	LED red
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Safety and protection:

Rated voltage	250 V
Rated impulse voltage	4 kV
Pollution degree	2
Dielectric strength, control/load circuit (AC, 1 min)	4 kV _{rms}



Dielectric strength, control/load circuit (AC, 1 min)	4 kV _{rms}
Dielectric strength open contact (AC, 1 min)	1 kV _{rms}
Dielectric strength open contact (AC, 1 min)	1 kV _{rms}

Connection data

Connection technology	CAGE CLAMP®
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 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-35 rail	56 mm / 2.205 inch
Depth	91 mm / 3.583 inch

Mechanical data

Type of mounting	DIN-35 rail
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Material Data

Color	gray
Fire load	0.593 MJ
Weight	22.029 g

Environmental Requirements

Surrounding air (operating) temperature at U _N	-40 ... 50 °C
Surrounding air (storage) temperature	-40 ... 70 °C
Pollution degree	2

Standards and specifications




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


Country of origin	DE
GTIN	4055143602662
Customs Tariff No.	85364900990
Product Group	6 (Interface Electronics)

Approvals / Certificates

Ship Approvals







Logo	Approval	Certificate name
	DNV GL Det Norske Veritas, Germanischer Lloyd	TAA00001D1
	NK Nippon Kaiji Kyokai	TA17255M
	PRS Polski Rejestr Statkow	TE/1989/880590/13

UL-Approvals


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
















Compatible products

ferrule

	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / AWG 22; insulated; electro-tin plated	www.wago.com/216-221
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / AWG 20; insulated; electro-tin plated	www.wago.com/216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated	www.wago.com/216-223
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated	www.wago.com/216-224
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated	www.wago.com/216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm ² / AWG 24; insulated; electro-tin plated	www.wago.com/216-322

Marking accessories

	Item no.: 2009-145 Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	www.wago.com/2009-145
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	<p>Item no.: 2009-145/000-002 Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type</p>	www.wago.com/2009-145/000-002
	<p>Item no.: 2009-145/000-005 Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type</p>	www.wago.com/2009-145/000-005
	<p>Item no.: 2009-145/000-006 Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type</p>	www.wago.com/2009-145/000-006
	<p>Item no.: 2009-145/000-007 Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type</p>	www.wago.com/2009-145/000-007
	<p>Item no.: 2009-145/000-012 Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type</p>	www.wago.com/2009-145/000-012
	<p>Item no.: 2009-145/000-023 Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type</p>	www.wago.com/2009-145/000-023
	<p>Item no.: 2009-145/000-024 Mini-WSB Inline; on reel; stretchable 5 - 5.2 mm; plain; snap-on type</p>	www.wago.com/2009-145/000-024
	<p>Item no.: 210-110 Fiber-tip pen</p>	www.wago.com/210-110
	<p>Item no.: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card</p>	www.wago.com/248-501
	<p>Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type</p>	www.wago.com/248-501/000-002
	<p>Item no.: 248-501/000-005 Mini-WSB marking card; as card; plain; snap-on type</p>	www.wago.com/248-501/000-005
	<p>Item no.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type</p>	www.wago.com/248-501/000-006
	<p>Item no.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type</p>	www.wago.com/248-501/000-007
	<p>Item no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type</p>	www.wago.com/248-501/000-012
	<p>Item no.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type</p>	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

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

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

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

www.wago.com/248-502/000-024



Item no.: 248-503
Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type

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

www.wago.com/248-503/000-024



Item no.: 248-504/000-024
Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type

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

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

www.wago.com/248-506

check



Item no.: 859-500
Test pin; 1 mm Ø; with solder connection for test wire

www.wago.com/859-500

End plate



Item no.: 859-525
End and intermediate plate; 1 mm thick

www.wago.com/859-525

Jumper



Item no.: 859-402
Push-in type jumper bar; 2-way; Nominal current 18 A; insulated

www.wago.com/859-402



















Item no.: 859-402/000-005
Push-in type jumper bar; 2-way; Nominal current 18 A; insulated
















www.wago.com/859-402/000-005

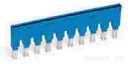


Item no.: 859-402/000-006
Push-in type jumper bar; 2-way; Nominal current 18 A; insulated

www.wago.com/859-402/000-006

	<p>Item no.: 859-402/000-029 Push-in type jumper bar; 2-way; Nominal current 18 A; insulated</p>	www.wago.com/859-402/000-029
	<p>Item no.: 859-403 Push-in type jumper bar; 3-way; Nominal current 18 A; insulated</p>	www.wago.com/859-403
	<p>Item no.: 859-403/000-005 Push-in type jumper bar; 3-way; Nominal current 18 A; insulated</p>	www.wago.com/859-403/000-005
	<p>Item no.: 859-403/000-006 Push-in type jumper bar; 3-way; Nominal current 18 A; insulated</p>	www.wago.com/859-403/000-006
	<p>Item no.: 859-403/000-029 Push-in type jumper bar; 3-way; Nominal current 18 A; insulated</p>	www.wago.com/859-403/000-029
	<p>Item no.: 859-404 Push-in type jumper bar; 4-way; Nominal current 18 A; insulated</p>	www.wago.com/859-404
	<p>Item no.: 859-404/000-005 Push-in type jumper bar; 4-way; Nominal current 18 A; insulated</p>	www.wago.com/859-404/000-005
	<p>Item no.: 859-404/000-006 Push-in type jumper bar; 4-way; Nominal current 18 A; insulated</p>	www.wago.com/859-404/000-006
	<p>Item no.: 859-404/000-029 Push-in type jumper bar; 4-way; Nominal current 18 A; insulated</p>	www.wago.com/859-404/000-029
	<p>Item no.: 859-405 Push-in type jumper bar; 5-way; Nominal current 18 A; insulated</p>	www.wago.com/859-405
	<p>Item no.: 859-405/000-005 Push-in type jumper bar; 5-way; Nominal current 18 A; insulated</p>	www.wago.com/859-405/000-005
	<p>Item no.: 859-405/000-006 Push-in type jumper bar; 5-way; Nominal current 18 A; insulated</p>	www.wago.com/859-405/000-006
	<p>Item no.: 859-405/000-029 Push-in type jumper bar; 5-way; Nominal current 18 A; insulated</p>	www.wago.com/859-405/000-029
	<p>Item no.: 859-406 Push-in type jumper bar; 6-way; Nominal current 18 A; insulated</p>	www.wago.com/859-406
	<p>Item no.: 859-406/000-005 Push-in type jumper bar; 6-way; Nominal current 18 A; insulated</p>	www.wago.com/859-406/000-005
	<p>Item no.: 859-406/000-006 Push-in type jumper bar; 6-way; Nominal current 18 A; insulated</p>	www.wago.com/859-406/000-006

	<p>Item no.: 859-406/000-029 Push-in type jumper bar; 6-way; Nominal current 18 A; insulated</p>	www.wago.com/859-406/000-029
	<p>Item no.: 859-407 Push-in type jumper bar; 7-way; Nominal current 18 A; insulated</p>	www.wago.com/859-407
	<p>Item no.: 859-407/000-005 Push-in type jumper bar; 7-way; Nominal current 18 A; insulated</p>	www.wago.com/859-407/000-005
	<p>Item no.: 859-407/000-006 Push-in type jumper bar; 7-way; Nominal current 18 A; insulated</p>	www.wago.com/859-407/000-006
	<p>Item no.: 859-407/000-029 Push-in type jumper bar; 7-way; Nominal current 18 A; insulated</p>	www.wago.com/859-407/000-029
	<p>Item no.: 859-408 Push-in type jumper bar; 8-way; Nominal current 18 A; insulated</p>	www.wago.com/859-408
	<p>Item no.: 859-408/000-005 Push-in type jumper bar; 8-way; Nominal current 18 A; insulated</p>	www.wago.com/859-408/000-005
	<p>Item no.: 859-408/000-006 Push-in type jumper bar; 8-way; Nominal current 18 A; insulated</p>	www.wago.com/859-408/000-006
	<p>Item no.: 859-408/000-029 Push-in type jumper bar; 8-way; Nominal current 18 A; insulated</p>	www.wago.com/859-408/000-029
	<p>Item no.: 859-409 Push-in type jumper bar; 9-way; Nominal current 18 A; insulated</p>	www.wago.com/859-409
	<p>Item no.: 859-409/000-005 Push-in type jumper bar; 9-way; Nominal current 18 A; insulated</p>	www.wago.com/859-409/000-005
	<p>Item no.: 859-409/000-006 Push-in type jumper bar; 9-way; Nominal current 18 A; insulated</p>	www.wago.com/859-409/000-006
	<p>Item no.: 859-409/000-029 Push-in type jumper bar; 9-way; Nominal current 18 A; insulated</p>	www.wago.com/859-409/000-029
	<p>Item no.: 859-410 Push-in type jumper bar; 10-way; Nominal current 18 A; insulated</p>	www.wago.com/859-410
	<p>Item no.: 859-410/000-005 Push-in type jumper bar; 10-way; Nominal current 18 A; insulated</p>	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

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

www.wago.com/859-410/000-029

tools



Item no.: 210-720
Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm

www.wago.com/210-720

Downloads

Documentation

Bid Text

859-305 Relaisbaustein	Jan 22, 2016	DOC 27.1 kB	Download
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Instruction Leaflet

Relay Modules, Optocoupler Modules, Specialty Functions	Dec 9, 2016	PDF 1.7 MB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	Oct 15, 2018	265.8 kB	Download
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smartDATA

CAD data

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Subject to changes.