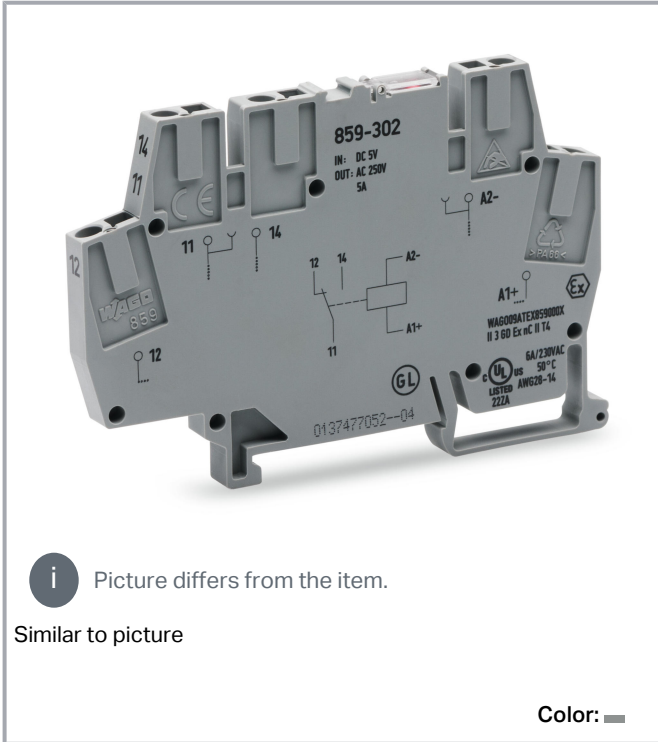


Data sheet | Item number: 859-306

Relay module; Nominal input voltage: 60 VDC; 1 changeover contact; Red status indicator; Module width: 6 mm; 2,50 mm<sup>2</sup>; gray

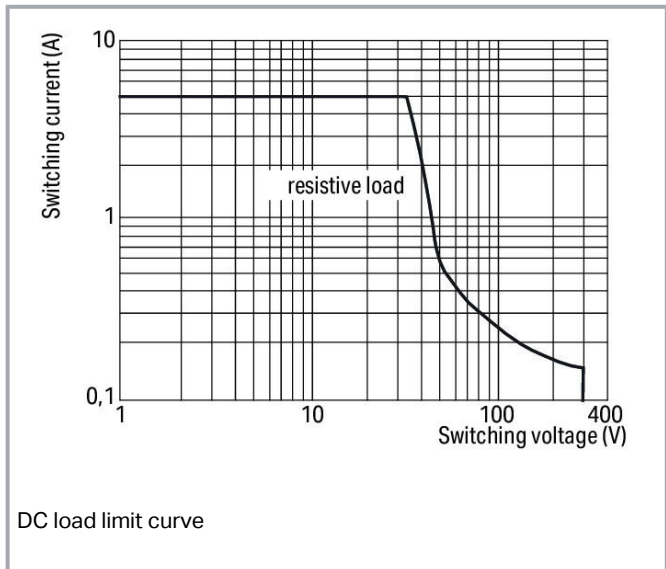
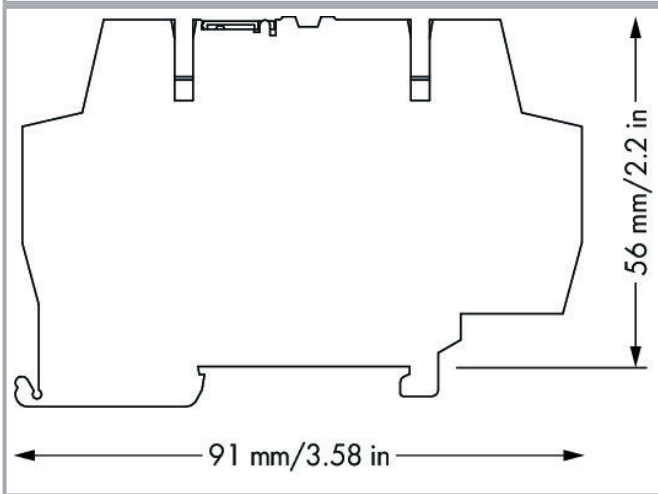
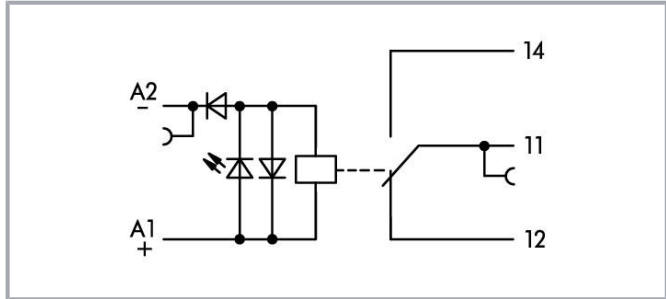


[www.wago.com/859-306](http://www.wago.com/859-306)



**i** Picture differs from the item.

Similar to picture



DC load limit curve

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

WAGO Kontakttechnik GmbH & Co. KG  
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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

## Data Notes

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

## Technical data

### Control circuit

Nominal input voltage $U_N$	DC 60 V
Input voltage range	-15 ... +20 %
Nominal input current at $U_N$	5.2 mA

### Load circuit

Number of changeover/switchover contacts	1
Contact material (relay)	AgSnO <sub>2</sub>
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 <sup>3</sup> switching operations
Mechanical life	5 x 10 <sup>6</sup> switching operations
Switching frequency with/without load (max.)	6 min <sup>-1</sup> / 180 min <sup>-1</sup>

### Signaling

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

### Safety and protection

Rated voltage	250 V
---------------	-------

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



Rated surge voltage	4 kV
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 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inch

### Physical data

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

### Mechanical data

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

### Material data

Color	gray
Fire load	0.803 MJ
Weight	22.5 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
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

### Standards and specifications

Standards/Specifications	EN 61010-2-201 EN 61810-1 EN 61373
--------------------------	--

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


GL  
UL 508

### Commercial data



Product Group	6 (Interface Electronics)
PU (SPU)	10 Stück
Packaging type	box
Country of origin	DE
GTIN	4055143602716
Customs tariff number	85364900990

### Approvals / Certificates


#### Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
 Ex nA nC IIC T4 Gc	CCCEX CQST/CNEX	CNCA-C23-01	2021312304000982

#### Ship Approvals














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

#### UL-Approvals

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

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

## Optional accessories

Ferrule		
Ferrule		
	<b>Item no.: 216-223</b> Ferrule; Sleeve for 1 mm <sup>2</sup> / AWG 18; insulated; electro-tin plated; red	<a href="http://www.wago.com/216-223">www.wago.com/216-223</a>
	<b>Item no.: 216-222</b> Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray	<a href="http://www.wago.com/216-222">www.wago.com/216-222</a>
	<b>Item no.: 216-221</b> Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white	<a href="http://www.wago.com/216-221">www.wago.com/216-221</a>
	<b>Item no.: 216-224</b> Ferrule; Sleeve for 1.5 mm <sup>2</sup> / AWG 16; insulated; electro-tin plated; black	<a href="http://www.wago.com/216-224">www.wago.com/216-224</a>
	<b>Item no.: 216-321</b> Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow	<a href="http://www.wago.com/216-321">www.wago.com/216-321</a>
	<b>Item no.: 216-322</b> Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green	<a href="http://www.wago.com/216-322">www.wago.com/216-322</a>
Marking accessories		
Marking device		
	<b>Item no.: 210-110</b> Fiber-tip pen	<a href="http://www.wago.com/210-110">www.wago.com/210-110</a>
Marker		
	<b>Item no.: 2009-145</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a>
	<b>Item no.: 248-501</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/248-501">www.wago.com/248-501</a>
	<b>Item no.: 248-504</b> Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-504">www.wago.com/248-504</a>
	<b>Item no.: 248-503</b> Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-503">www.wago.com/248-503</a>
	<b>Item no.: 248-506</b> Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-506">www.wago.com/248-506</a>
	<b>Item no.: 248-502</b> Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="http://www.wago.com/248-502">www.wago.com/248-502</a>
End plate		
End plate		













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



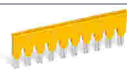

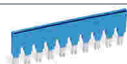











**Item no.: 859-525**  
End and intermediate plate; 1 mm thick; gray

[www.wago.com/859-525](http://www.wago.com/859-525)











**Jumpers**

Jumper		
	<b>Item no.: 859-408</b> Jumper; for jumper slot; 8-way; insulated; light gray	<a href="http://www.wago.com/859-408">www.wago.com/859-408</a>
	<b>Item no.: 859-404/000-005</b> Jumper; for jumper slot; 4-way; insulated; red	<a href="http://www.wago.com/859-404/000-005">www.wago.com/859-404/000-005</a>
	<b>Item no.: 859-404/000-006</b> Jumper; for jumper slot; 4-way; insulated; blue	<a href="http://www.wago.com/859-404/000-006">www.wago.com/859-404/000-006</a>
	<b>Item no.: 859-405/000-005</b> Jumper; for jumper slot; 5-way; insulated; red	<a href="http://www.wago.com/859-405/000-005">www.wago.com/859-405/000-005</a>
	<b>Item no.: 859-405/000-029</b> Jumper; for jumper slot; 5-way; insulated; yellow	<a href="http://www.wago.com/859-405/000-029">www.wago.com/859-405/000-029</a>
	<b>Item no.: 859-405</b> Jumper; for jumper slot; 5-way; insulated; light gray	<a href="http://www.wago.com/859-405">www.wago.com/859-405</a>
	<b>Item no.: 859-404/000-029</b> Jumper; for jumper slot; 4-way; insulated; yellow	<a href="http://www.wago.com/859-404/000-029">www.wago.com/859-404/000-029</a>
	<b>Item no.: 859-406</b> Jumper; for jumper slot; 6-way; insulated; light gray	<a href="http://www.wago.com/859-406">www.wago.com/859-406</a>
	<b>Item no.: 859-405/000-006</b> Jumper; for jumper slot; 5-way; insulated; blue	<a href="http://www.wago.com/859-405/000-006">www.wago.com/859-405/000-006</a>
	<b>Item no.: 859-406/000-005</b> Jumper; for jumper slot; 6-way; insulated; red	<a href="http://www.wago.com/859-406/000-005">www.wago.com/859-406/000-005</a>
	<b>Item no.: 859-409/000-029</b> Jumper; for jumper slot; 9-way; insulated; yellow	<a href="http://www.wago.com/859-409/000-029">www.wago.com/859-409/000-029</a>
	<b>Item no.: 859-410/000-005</b> Jumper; for jumper slot; 10-way; insulated; red	<a href="http://www.wago.com/859-410/000-005">www.wago.com/859-410/000-005</a>

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

	<b>Item no.: 859-410/000-029</b> Jumper; for jumper slot; 10-way; insulated; yellow	<a href="http://www.wago.com/859-410/000-029">www.wago.com/859-410/000-029</a>
	<b>Item no.: 859-410</b> Jumper; for jumper slot; 10-way; insulated; light gray	<a href="http://www.wago.com/859-410">www.wago.com/859-410</a>
	<b>Item no.: 859-410/000-006</b> Jumper; for jumper slot; 10-way; insulated; blue	<a href="http://www.wago.com/859-410/000-006">www.wago.com/859-410/000-006</a>
	<b>Item no.: 859-403/000-005</b> Jumper; for jumper slot; 3-way; insulated; red	<a href="http://www.wago.com/859-403/000-005">www.wago.com/859-403/000-005</a>
	<b>Item no.: 859-402/000-029</b> Jumper; for jumper slot; 2-way; insulated; yellow	<a href="http://www.wago.com/859-402/000-029">www.wago.com/859-402/000-029</a>
	<b>Item no.: 859-403/000-029</b> Jumper; for jumper slot; 3-way; insulated; yellow	<a href="http://www.wago.com/859-403/000-029">www.wago.com/859-403/000-029</a>
	<b>Item no.: 859-403/000-006</b> Jumper; for jumper slot; 3-way; insulated; blue	<a href="http://www.wago.com/859-403/000-006">www.wago.com/859-403/000-006</a>
	<b>Item no.: 859-408/000-005</b> Jumper; for jumper slot; 8-way; insulated; red	<a href="http://www.wago.com/859-408/000-005">www.wago.com/859-408/000-005</a>
	<b>Item no.: 859-408/000-029</b> Jumper; for jumper slot; 8-way; insulated; yellow	<a href="http://www.wago.com/859-408/000-029">www.wago.com/859-408/000-029</a>
	<b>Item no.: 859-409</b> Jumper; for jumper slot; 9-way; insulated; light gray	<a href="http://www.wago.com/859-409">www.wago.com/859-409</a>
	<b>Item no.: 859-408/000-006</b> Jumper; for jumper slot; 8-way; insulated; blue	<a href="http://www.wago.com/859-408/000-006">www.wago.com/859-408/000-006</a>
	<b>Item no.: 859-403</b> Jumper; for jumper slot; 3-way; insulated; light gray	<a href="http://www.wago.com/859-403">www.wago.com/859-403</a>
	<b>Item no.: 859-409/000-005</b> Jumper; for jumper slot; 9-way; insulated; red	<a href="http://www.wago.com/859-409/000-005">www.wago.com/859-409/000-005</a>
	<b>Item no.: 859-404</b> Jumper; for jumper slot; 4-way; insulated; light gray	<a href="http://www.wago.com/859-404">www.wago.com/859-404</a>

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

	<p><b>Item no.: 859-409/000-006</b>                      Jumper; for jumper slot; 9-way; insulated; blue</p>	<p><a href="http://www.wago.com/859-409/000-006">www.wago.com/859-409/000-006</a></p>
	<p><b>Item no.: 859-402/000-006</b>                      Jumper; for jumper slot; 2-way; insulated; blue</p>	<p><a href="http://www.wago.com/859-402/000-006">www.wago.com/859-402/000-006</a></p>
	<p><b>Item no.: 859-402</b>                      Jumper; for jumper slot; 2-way; insulated; light gray</p>	<p><a href="http://www.wago.com/859-402">www.wago.com/859-402</a></p>
	<p><b>Item no.: 859-402/000-005</b>                      Jumper; for jumper slot; 2-way; insulated; red</p>	<p><a href="http://www.wago.com/859-402/000-005">www.wago.com/859-402/000-005</a></p>
	<p><b>Item no.: 859-406/000-006</b>                      Jumper; for jumper slot; 6-way; insulated; blue</p>	<p><a href="http://www.wago.com/859-406/000-006">www.wago.com/859-406/000-006</a></p>
	<p><b>Item no.: 859-406/000-029</b>                      Jumper; for jumper slot; 6-way; insulated; signal yellow</p>	<p><a href="http://www.wago.com/859-406/000-029">www.wago.com/859-406/000-029</a></p>
	<p><b>Item no.: 859-407/000-006</b>                      Jumper; for jumper slot; 7-way; insulated; blue</p>	<p><a href="http://www.wago.com/859-407/000-006">www.wago.com/859-407/000-006</a></p>
	<p><b>Item no.: 859-407/000-005</b>                      Jumper; for jumper slot; 7-way; insulated; red</p>	<p><a href="http://www.wago.com/859-407/000-005">www.wago.com/859-407/000-005</a></p>
	<p><b>Item no.: 859-407/000-029</b>                      Jumper; for jumper slot; 7-way; insulated; yellow</p>	<p><a href="http://www.wago.com/859-407/000-029">www.wago.com/859-407/000-029</a></p>
	<p><b>Item no.: 859-407</b>                      Jumper; for jumper slot; 7-way; insulated; light gray</p>	<p><a href="http://www.wago.com/859-407">www.wago.com/859-407</a></p>
<b>Testing and measuring</b>		
Testing accessories		
	<p><b>Item no.: 859-500</b>                      Test pin; 1 mm Ø; with solder connection for test wire</p>	<p><a href="http://www.wago.com/859-500">www.wago.com/859-500</a></p>
<b>Tool</b>		
Operating tool		
	<p><b>Item no.: 210-720</b>                      Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured</p>	<p><a href="http://www.wago.com/210-720">www.wago.com/210-720</a></p>

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





## Downloads

### Documentation

#### Bid Text

859-306 docx - Datei	2019. 2. 20.	docx 16.0 kB	Download
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859-306 X81 - Datei	2019. 2. 19.	xml 4.6 kB	Download
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#### Instruction Leaflet

Relay modules, Optocoupler modules	V 1.2.0 2019. 8. 30.	pdf 2.2 MB	Download
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#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 859-306	URL	Download
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### CAE data

EPLAN Data Portal 859-306	URL	Download
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WSCAD Universe 859-306	URL	Download
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ZUKEN Portal 859-306	URL	Download
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## Environmental Product Compliance

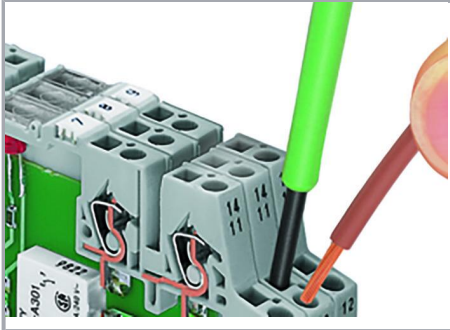
### Compliance Search

Environmental Product Compliance 859-306 Relay module; Nominal input voltage: 60 VDC; 1 changeover contact; Red status indicator; Module width: 6 mm; 2,50 mm <sup>2</sup> ; gray	URL	Download
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Subject to changes. Please also observe the further product documentation!

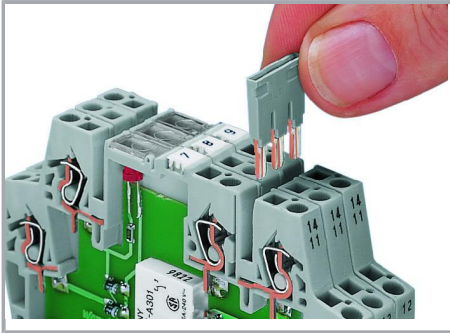
## Installation Notes

### Conductor termination



### Conductor termination

### Commoning



### Easy commoning using adjacent jumpers

### Marking



### Marking via Mini-WSB Quick Marking System

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