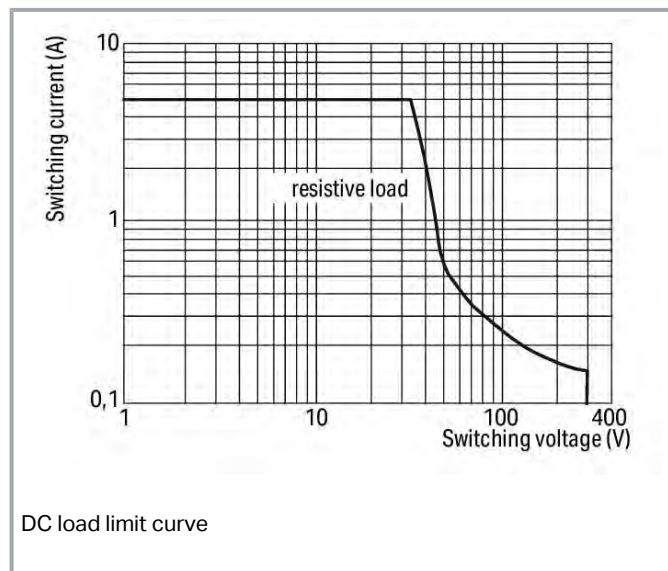
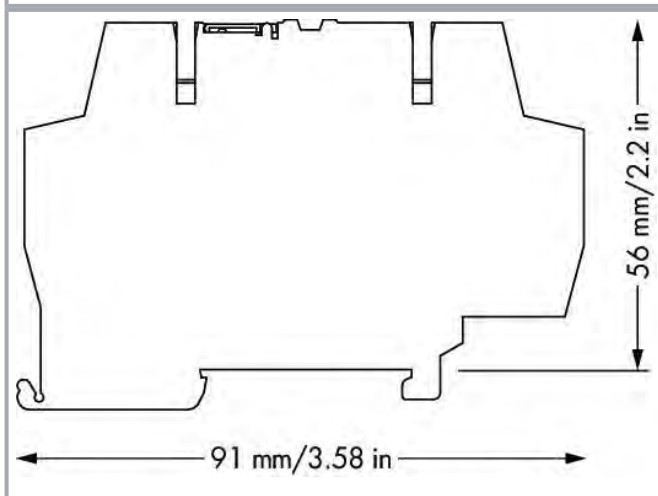
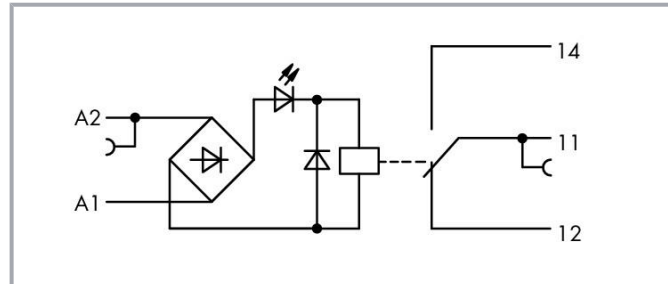


Relay module; Nominal input voltage: 230 V AC/DC; 1 changeover contact;
Red status indicator; Module width: 6 mm; 2,50 mm²; gray



Web: <https://www.bolenscontrol.com/> - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com



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	AC/DC 230 V
Input voltage range	-15 ... +10 %
Nominal input current at U_N	3.5 mA

Load circuit

Number of changeover 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
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Safety and protection

Rated voltage	250 V
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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 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

Physical 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
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Material data

Color	gray
Fire load	0.313 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
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; GL; UL 508
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Subject to changes. Please also observe the further product documentation!

Commercial data

Product Group	6 (Interface Electronics)
Packaging type	BOX
Country of origin	CN
GTIN	4055143604161
Customs tariff number	8536490080

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
	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

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

Compatible products

Jumper



Item no.: 859-402
Push-in type jumper bar; Light gray; Insulated; 18 A; 2-position



Item no.: 859-402/000-005
Jumper; for jumper slot; 2-way; insulated; red



Item no.: 859-402/000-006
Jumper; for jumper slot; 2-way; insulated; blue



Item no.: 859-402/000-029
Jumper; for jumper slot; 2-way; insulated; yellow



Item no.: 859-403
Push-in type jumper bar; Light gray; Insulated; 18 A; 3-position



Item no.: 859-403/000-005
Jumper; for jumper slot; 3-way; insulated; red



Item no.: 859-403/000-006
Jumper; for jumper slot; 3-way; insulated; blue



Item no.: 859-403/000-029
Jumper; for jumper slot; 3-way; insulated; yellow



Item no.: 859-404
Push-in type jumper bar; Light gray; Insulated; 18 A; 4-position



Item no.: 859-404/000-005
Jumper; for jumper slot; 4-way; insulated; red



Item no.: 859-404/000-006
Jumper; for jumper slot; 4-way; insulated; blue



Item no.: 859-404/000-029
Jumper; for jumper slot; 4-way; insulated; yellow



Item no.: 859-405
Push-in type jumper bar; Light gray; Insulated; 18 A; 5-position



Item no.: 859-405/000-005
Jumper; for jumper slot; 5-way; insulated; red

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



Item no.: 859-405/000-006

Jumper; for jumper slot; 5-way; insulated; blue



Item no.: 859-405/000-029

Jumper; for jumper slot; 5-way; insulated; yellow



Item no.: 859-406

Push-in type jumper bar; Light gray; Insulated; 18 A; 6-position



Item no.: 859-406/000-005

Jumper; for jumper slot; 6-way; insulated; red



Item no.: 859-406/000-006

Jumper; for jumper slot; 6-way; insulated; blue



Item no.: 859-406/000-029

Jumper; for jumper slot; 6-way; insulated; signal yellow



Item no.: 859-407

Push-in type jumper bar; Light gray; Insulated; 18 A; 7-position



Item no.: 859-407/000-005

Jumper; for jumper slot; 7-way; insulated; red



Item no.: 859-407/000-006

Jumper; for jumper slot; 7-way; insulated; blue



Item no.: 859-407/000-029

Jumper; for jumper slot; 7-way; insulated; yellow



Item no.: 859-408

Push-in type jumper bar; Light gray; Insulated; 18 A; 8-position



Item no.: 859-408/000-005

Jumper; for jumper slot; 8-way; insulated; red



Item no.: 859-408/000-006

Jumper; for jumper slot; 8-way; insulated; blue



Item no.: 859-408/000-029

Jumper; for jumper slot; 8-way; insulated; yellow

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



Item no.: 859-409
Push-in type jumper bar; Light gray; Insulated; 18 A; 9-position



Item no.: 859-409/000-005
Jumper; for jumper slot; 9-way; insulated; red



Item no.: 859-409/000-006
Jumper; for jumper slot; 9-way; insulated; blue



Item no.: 859-409/000-029
Jumper; for jumper slot; 9-way; insulated; yellow



Item no.: 859-410
Push-in type jumper bar; Light gray; Insulated; 18 A; 10-position



Item no.: 859-410/000-005
Jumper; for jumper slot; 10-way; insulated; red



Item no.: 859-410/000-006
Jumper; for jumper slot; 10-way; insulated; blue



Item no.: 859-410/000-029
Jumper; for jumper slot; 10-way; insulated; yellow

End plate



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

check



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

tools



Item no.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

ferrule



Item no.: 216-221
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



Item no.: 216-222
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



Item no.: 216-223
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item no.: 216-224

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



Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item no.: 216-321

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



Item no.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green

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



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



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



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



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



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



Item no.: 2009-145/000-023

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



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



Item no.: 210-110

Fiber-tip pen



Item no.: 248-501

Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card



Item no.: 248-501/000-002

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



Item no.: 248-501/000-005

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

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

**Item no.: 248-501/000-006**

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

**Item no.: 248-501/000-007**

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

**Item no.: 248-501/000-012**

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

**Item no.: 248-501/000-017**

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

**Item no.: 248-501/000-023**

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

**Item no.: 248-501/000-024**

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

**Item no.: 248-502**

Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

**Item no.: 248-502/000-024**

Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; violet

**Item no.: 248-503**

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

**Item no.: 248-503/000-024**

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

**Item no.: 248-504**

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

**Item no.: 248-504/000-024**

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

**Item no.: 248-505/000-024**

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

**Item no.: 248-506**

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

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



type; white

Downloads

Documentation

Bid Text

859-358	Feb 19, 2019	xml
X81 - Datei		4.6 kB

859-358	Feb 20, 2019	docx
docx - Datei		17.3 kB

Instruction Leaflet

Relay modules, Optocoupler modules	V 1.2.0	pdf
	Aug 30, 2019	2.2 MB

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf
		265.8 kB

CAD files

CAD data

2D/3D Models 859-358

CAE data

EPLAN Data Portal 859-358

ZUKEN Portal 859-358

WSCAD Universe 859-358

Environmental Product Compliance

Compliance Search

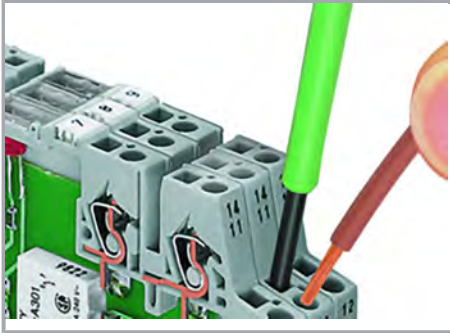
Environmental Product Compliance 859-358

Relay module; Nominal input voltage: 230 V AC/DC; 1 changeover contact; Red status indicator; Module width: 6 mm; 2,50 mm²; gray

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

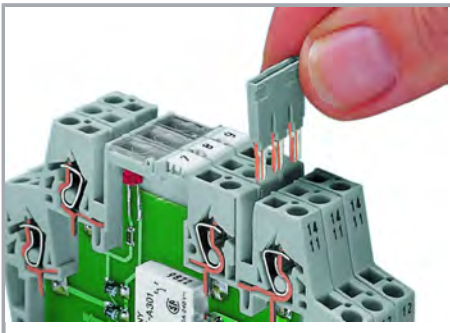
Installation Notes

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!