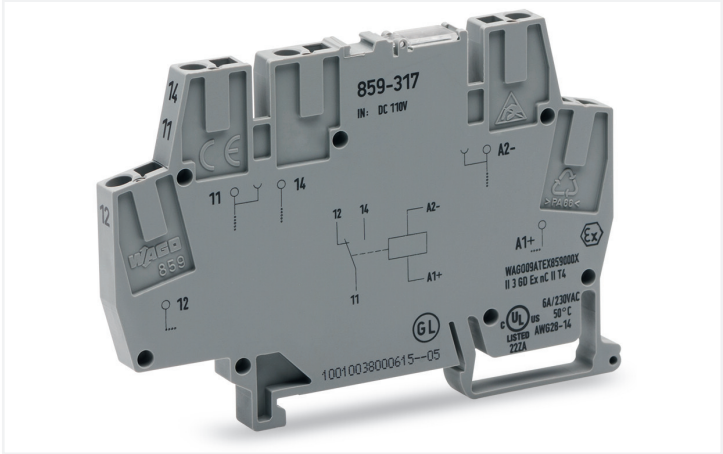


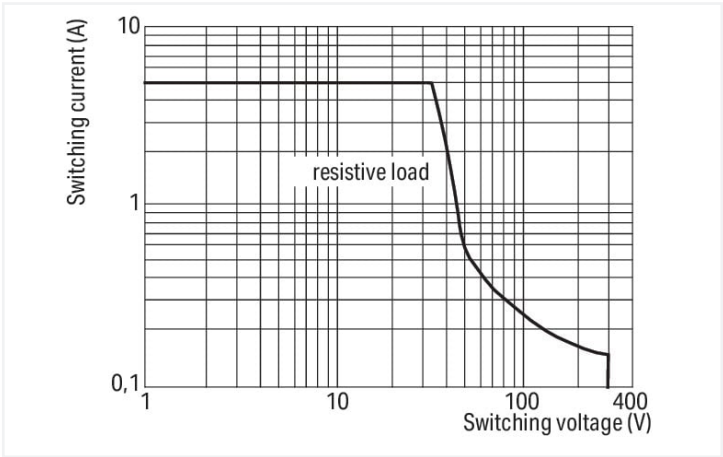
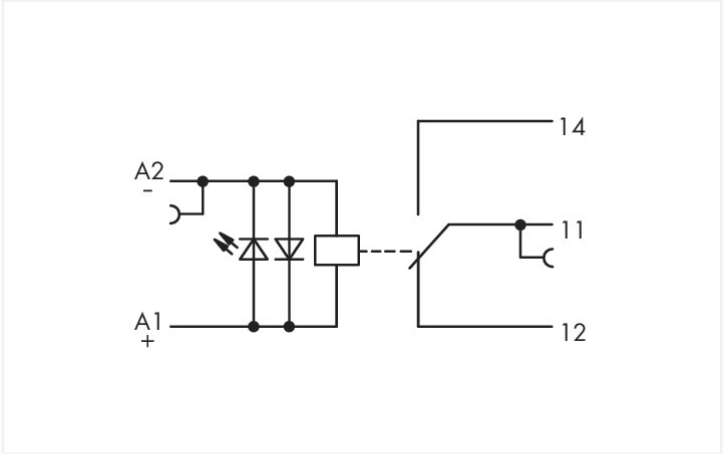
Data Sheet | Item Number: 859-317

Relay module; Nominal input voltage: 110 VDC; 1 changeover contact; with gold contacts; Railway; Red status indicator; Module width: 6 mm; 2,50 mm²; gray

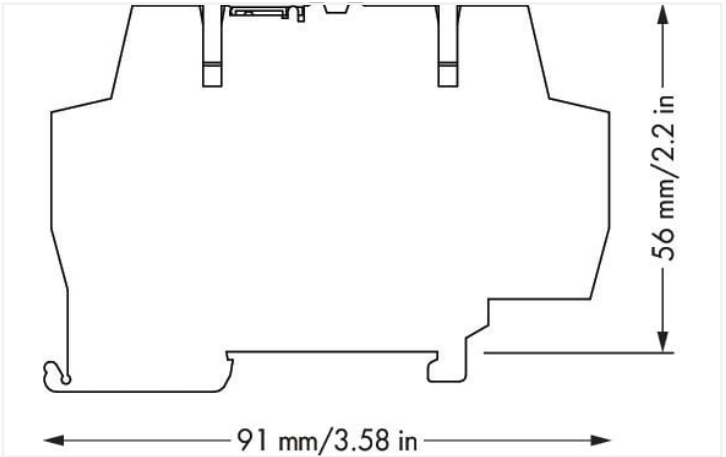
<https://www.wago.com/859-317>



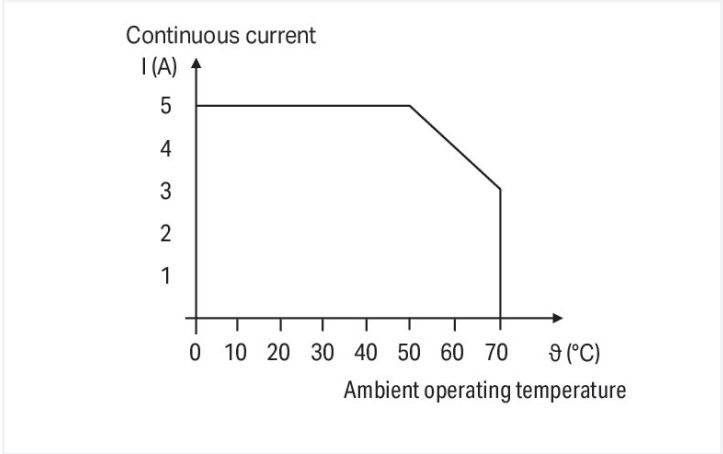
Color: ■ gray



DC load limit curve



Dimensions in mm



Current-carrying capacity curve



Notes	
Note	To prevent damaging the gold layer, 30 V switching voltages and 50 mA currents must not be exceeded. Higher switching power eventually evaporates the gold layer. The resulting deposits in the housing may reduce service life. 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 110 V
Input voltage range	-30 ... +25 %
Nominal input current at U _N	4 mA
Load circuit	
Number of changeover/switchover contacts	1
Contact material (relay)	AgNi + Au
Limiting continuous current	5 A
Switching voltage (max.)	AC 250 V
Switching power (resistive) max.	AC 1250 VA; DC (see load limit curve)
Switching capacity	AC-15: 3 A / AC 250 V; DC-13: 2 A / DC 24 V
Recommended minimum load	1 V / 1 mA / 1 mW
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	300 V
Rated surge voltage	4 kV
Overvoltage category	III
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	4 kVrms
Dielectric strength (open contact) (AC, 1 min)	1 kVrms
Insulation type (control/load circuit)	Reinforced insulation (safe isolation)
Insulation type (adjacent devices)	Reinforced insulation (safe isolation)
Protection type	IP20; in connected state or when using 859-525 end plate

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
Fine-stranded conductor; with insulated ferrule	0.08 ... 1.5 mm ² / 28 ... 16 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inches



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

Mechanical data		
Mounting type		DIN-35 rail
Mounting position		horizontal (standing/lying); vertical

Material data		
Color		gray
Fire load		0.455 MJ
Weight		22.1 g

Environmental requirements		
Ambient temperature (operation at U _N)		-40 ... +70 °C
Ambient temperature (storage)		-40 ... +70 °C
Processing temperature		-25 ... +50 °C
Temperature range of connection cable		≥ (T _{ambient} + 20 K)
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 UL 508 DNV

Commercial data		
Product Group		6 (INTERFACE ELECTRONIC)
eCl@ss 10.0		27-37-16-01
eCl@ss 9.0		27-37-16-01
ETIM 8.0		EC001437
ETIM 7.0		EC001437
PU (SPU)		10 pcs
Packaging type		Box
Country of origin		DE
GTIN		4055143603522
Customs tariff number		85364900990

Environmental Product Compliance		
CAS-No.		7439-92-1 79-94-7
REACH Candidate List Substance		2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Lead
RoHS Compliance Status		Compliant,With Exemption
RoHS Exemption		7(a)
SCIP notification number (Austria)		25ab52d5-e397-4175-9631-847c9f2e461b
SCIP notification number (Belgium)		5e86f264-329c-46ba-b3bd-892069986410
SCIP notification number (Bulgaria)		3f16e1fe-09f5-4a3f-93fa-1cb9f6406380
SCIP notification number (Czech Republic)		2a0e08f1-773a-4b3b-bd87-414090157e1d
SCIP notification number (Denmark)		4779c19e-7914-498c-83de-f5c863c176a4



Environmental Product Compliance	
SCIP notification number (Finland)	b7ec3a4e-1198-4f55-812c-3a71e8058965
SCIP notification number (France)	7f9c7156-3f32-47e1-afbb-b53edd14b82d
SCIP notification number (Germany)	bd820025-b119-43c4-acb7-ca37b7dd755a
SCIP notification number (Hungary)	6f2240b7-772f-425a-ae0d-9ba8b77bdace
SCIP notification number (Italy)	4ffc7c7e-a32b-4e14-bc90-b5c438195eef
SCIP notification number (Netherlands)	5502de0f-6cb1-4f59-978d-4d90d5ad94fe
SCIP notification number (Poland)	f74722ce-c9cb-4dec-949a-7fa3658d7324
SCIP notification number (Romania)	a012d22b-9184-4ab0-bc28-5593dc949689
SCIP notification number (Sweden)	0e156a98-40ed-40ea-af91-5877a5e533b3

Approvals / Certificates											
General approvals		Declarations of conformity and manufacturer's declarations									
											
Approval	Standard	Certificate Name									
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4									
		<table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Conformity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Conformity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-
Approval	Standard	Certificate Name									
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-									
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-									

Approvals for marine applications		
 		
Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA00001D1
PRS Polski Rejestr Statków	-	TE/2186/880590/18

Approvals for hazardous areas		
Approval	Standard	Certificate Name
CCC CNEX	CNCA-C23-01	2021312304000982 (Ex ec nC IIC T4 Gc)
UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA-GO22UKEX007X_ec nC

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 859-317	

Documentation			
Bid Text		Instruction Leaflet	
859-317	19.02.2019	xml 4.96 KB	
859-317	20.02.2019	docx 17.22 KB	
		CCC Ex (Additional information)	26.04.2023
		pdf 132.68 KB	
		Relay modules, Opto-coupler modules	V 2.0.0 19.01.2022
		pdf 2066.27 KB	



CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 859-317	EPLAN Data Portal 859-317
	WSCAD Universe 859-317
	ZUKEN Portal 859-317

1 Compatible Products
1.1 Optional Accessories
1.1.1 End plate
1.1.1.1 End plate



[Item No.: 859-525](#)
End and intermediate plate; 1 mm thick; gray

1.1.1.2 Intermediate plate

[Item No.: 859-525](#)
End and intermediate plate; 1 mm thick; gray

1.1.2 Ferrule			
1.1.2.1 Ferrule			
			
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; light turquoise	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 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black		

1.1.3 Jumper

1.1.3.1 Jumper

**Item No.: 859-410/000-006**

Jumper; for jumper slot; 10-way; insulated; blue

**Item No.: 859-410**

Jumper; for jumper slot; 10-way; insulated; light gray

**Item No.: 859-410/000-005**

Jumper; for jumper slot; 10-way; insulated; red

**Item No.: 859-410/000-029**

Jumper; for jumper slot; 10-way; insulated; yellow

**Item No.: 859-402/000-006**

Jumper; for jumper slot; 2-way; insulated; blue

**Item No.: 859-402**

Jumper; for jumper slot; 2-way; insulated; light gray

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

Jumper; for jumper slot; 2-way; insulated; red

**Item No.: 859-402/000-029**

Jumper; for jumper slot; 2-way; insulated; yellow

**Item No.: 859-403/000-006**

Jumper; for jumper slot; 3-way; insulated; blue

**Item No.: 859-403**

Jumper; for jumper slot; 3-way; insulated; light gray

**Item No.: 859-403/000-005**

Jumper; for jumper slot; 3-way; insulated; red

**Item No.: 859-403/000-029**

Jumper; for jumper slot; 3-way; insulated; yellow

**Item No.: 859-404/000-006**

Jumper; for jumper slot; 4-way; insulated; blue

**Item No.: 859-404**

Jumper; for jumper slot; 4-way; insulated; light gray

**Item No.: 859-404/000-005**

Jumper; for jumper slot; 4-way; insulated; red

**Item No.: 859-404/000-029**

Jumper; for jumper slot; 4-way; insulated; yellow

**Item No.: 859-405/000-006**

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

**Item No.: 859-405**

Jumper; for jumper slot; 5-way; insulated; light gray

**Item No.: 859-405/000-005**

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

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

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

**Item No.: 859-406/000-006**

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

**Item No.: 859-406**

Jumper; for jumper slot; 6-way; insulated; light gray

**Item No.: 859-406/000-005**

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

**Item No.: 859-406/000-029**

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

**Item No.: 859-407/000-006**

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

**Item No.: 859-407**

Jumper; for jumper slot; 7-way; insulated; light gray

**Item No.: 859-407/000-005**

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

**Item No.: 859-407/000-029**

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

**Item No.: 859-408/000-006**

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

**Item No.: 859-408**

Jumper; for jumper slot; 8-way; insulated; light gray

**Item No.: 859-408/000-005**

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

**Item No.: 859-408/000-029**

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

**Item No.: 859-409/000-006**

Jumper; for jumper slot; 9-way; insulated; blue

**Item No.: 859-409**

Jumper; for jumper slot; 9-way; insulated; light gray

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

Jumper; for jumper slot; 9-way; insulated; red

**Item No.: 859-409/000-029**

Jumper; for jumper slot; 9-way; insulated; yellow

1.1.4 Marking

1.1.4.1 Marker

**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.: 248-502**

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

**Item No.: 248-503**

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

**Item No.: 248-504**

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

**Item No.: 248-506**

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

**Item No.: 248-501**

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

1.1.4.2 Marking device



Item No.: 210-110

Fiber-tip pen

1.1.5 Test and measurement

1.1.5.1 Testing accessories



Item No.: 859-500

WAGO Test pin; 1 mm Ø; 30 V AC / 60 V DC; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm²

1.1.6 Tool

1.1.6.1 Operating tool

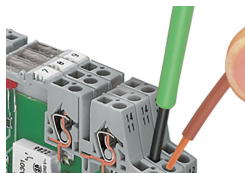


Item No.: 210-720

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

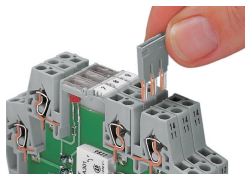
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System