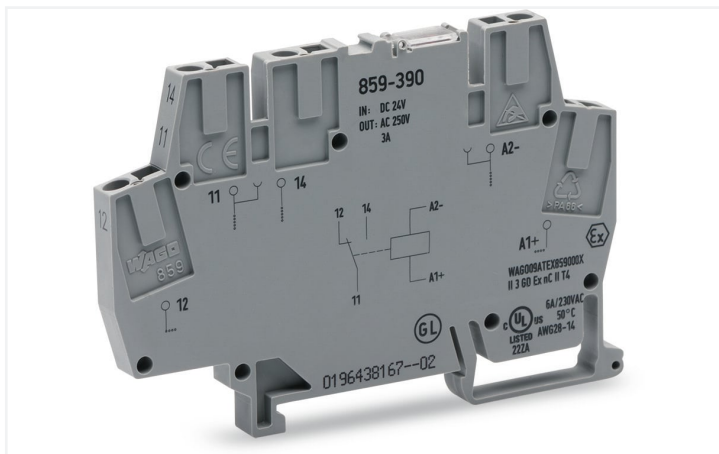


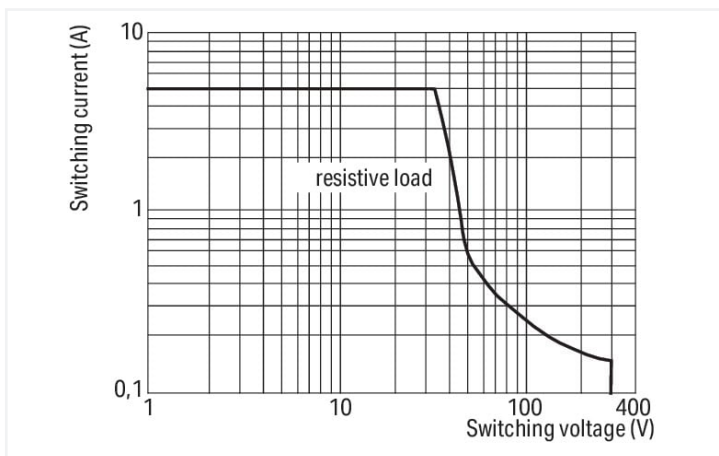
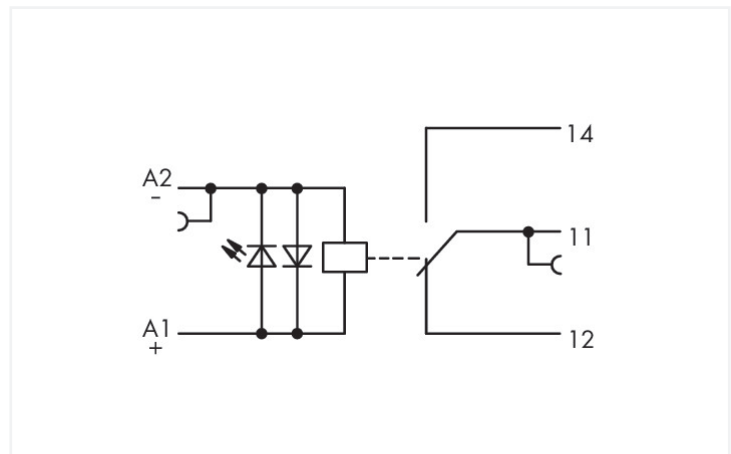
Data Sheet | Item Number: 859-390

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

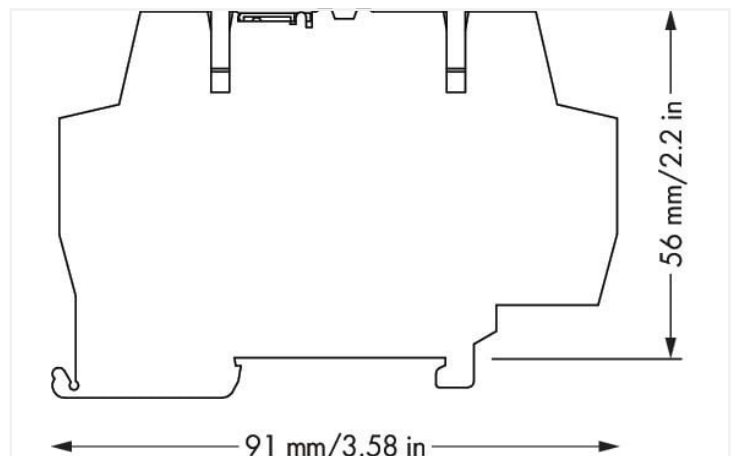
<https://www.wago.com/859-390>



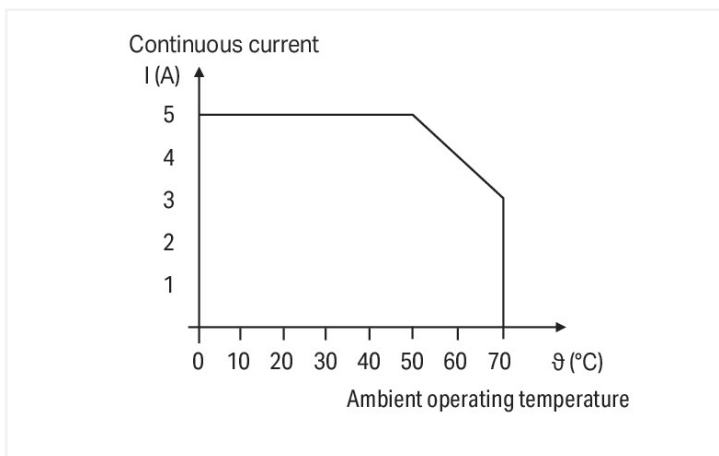
Color: gray



DC load limit curve



Dimensions in mm



Current-carrying capacity curve



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 24 V
Input voltage range	-30 ... +25 %
Nominal input current at U _N	12 mA

Load circuit	
Number of changeover/switchover contacts	1
Contact material (relay)	AgSnO ₂
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	10 V / 10 mA; 24 V / 1 mA
Pull-in time (typ.)	6 ms
Drop-out time (typ.)	6 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 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.08 ... 1.5 mm² / 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		1.274 MJ
Weight		22.9 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		CN
GTIN		4055143607629
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) 7(c)-I 7(c)-II
SCIP notification number (Austria)		b80ae32e-17e3-494b-bd67-c82e462fb581
SCIP notification number (Belgium)		7bca437d-7163-4314-ad00-6d5c2e89959c
SCIP notification number (Bulgaria)		b4d2cc36-ab4c-496b-9e7e-7bb7c557d2e3
SCIP notification number (Czech Republic)		4e3021bc-9521-4bc5-97ba-9760738bca56

Environmental Product Compliance

SCIP notification number (Denmark)	00cad622-a5a6-4fb2-8481-9e7bbf96c3f4
SCIP notification number (Finland)	4c744e47-cbe4-427d-bbe2-9253e56145f5
SCIP notification number (France)	97e502b0-2db1-430e-a345-cd6118c123b2
SCIP notification number (Germany)	e8d89f4c-5b4d-4810-b2e5-eea149c4b9a4
SCIP notification number (Hungary)	5f5a0e35-6873-4a2c-bd24-e453f0c7a31e
SCIP notification number (Italy)	741e839c-bbd6-47d1-8d3d-d6c1d1bc11ce
SCIP notification number (Netherlands)	1721e0ca-aa62-442e-b50e-073d56d21186
SCIP notification number (Poland)	fffd907d-c5ea-4395-a795-4496c3dadbf
SCIP notification number (Romania)	bb944c68-d93e-4936-a2c6-f83d009e6f49
SCIP notification number (Sweden)	6cab1041-53ac-4e56-b2f4-c32162d6086f

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



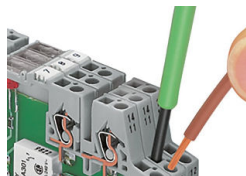
Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA00001D1
PRS Polski Rejestr Statków	-	TE/2186/880590/18

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

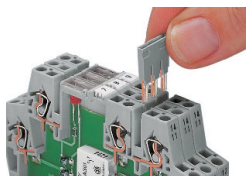
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System