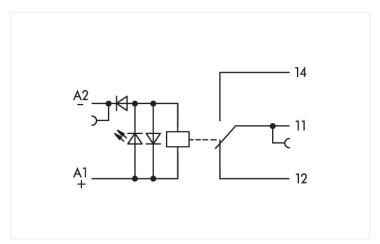
Relay module; Nominal input voltage: 5 VDC; 1 changeover contact; Red status indi-

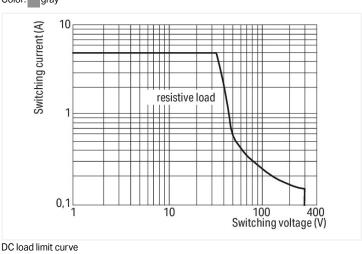
cator; Module width: 6 mm; 2,50 mm²; gray

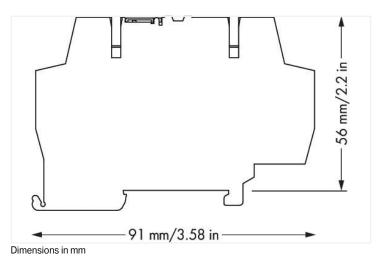
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Notes

Note

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

Technical data

DC 5 V
-15 +20 %
31 mA

Load circuit	
Number of changeover/switchover 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)
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.)	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

Data Sheet | Item Number: 859-302 https://www.wago.com/859-302



Load circuit

Switching frequency with/without load

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 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	0.338 MJ	
Weight	22 g	

Environmental requirements	
Ambient temperature (operation at U _N)	-40 +50 °C
Surrounding air 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

https://www.wago.com/859-302



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	4055143602587
Customs tariff number	85364900990

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
UL UL International Nether- lands B.V. (ORDINARY LO- CATIONS)	UL 508	E175199 Sec.4

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

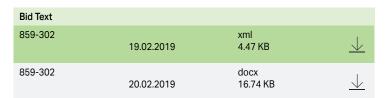
Environmental Product Compliance 859-302



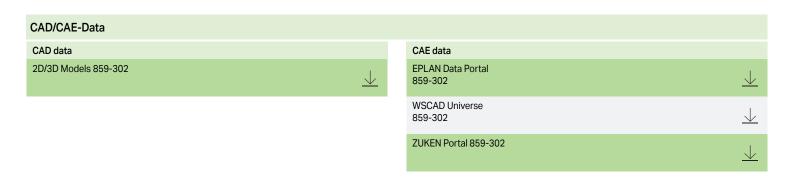
Documentation

https://www.wago.com/859-302





Instruction Leaflet			
CCC Ex (Additional information)		pdf 132.68 KB	\perp
Relay modules, Opto- coupler modules	V 2.0.0 19.01.2022	pdf 2066.27 KB	\perp



1.1 Optional Accessories 1.1.1 End plate 1.1.1.1 End plate 1.1.1.2 End plate

1.1.1.2 Intermediate plate

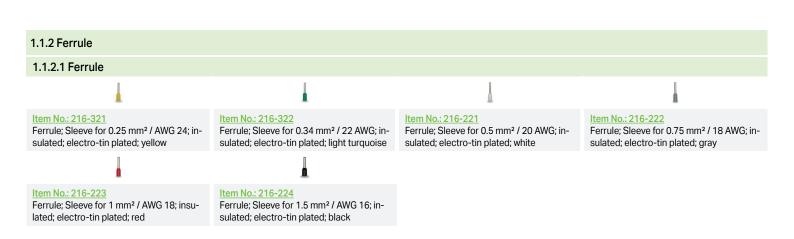


End and intermediate plate; 1 mm thick;

Item No.: 859-525

gray

End and intermediate plate; 1 mm thick; gray



1.1.3 Jumper

https://www.wago.com/859-302



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;

Item No.: 859-402

Item No.: 859-403

light gray

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

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

Item No.: 859-402/000-005

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

Item No.: 859-402/000-029

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



Item No.: 859-403/000-006

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

Item No.: 859-403/000-005

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

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;



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

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

light gray

Item No.: 859-404/000-005

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

Item No.: 859-404

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

Item No.: 859-405/000-005

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

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;



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;

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;

Item No.: 859-407/000-029

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



Item No.: 859-408/000-006

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



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





Item No.: 859-408/000-005

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

Item No.: 859-408/000-029

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



Item No.: 859-409/000-006

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

Item No.: 859-408

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;

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

1.1.4 Marking

1.1.4.1 Marker



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; MAR-KED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 248-503

Mini-WSB marking card; as card; MAR-KED; 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



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https://www.wago.com/859-302



1.1.4.2 Marking devices



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; CATO; 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

https://www.wago.com/859-302



Marking



Marking via Mini-WSB Quick Marking System

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$