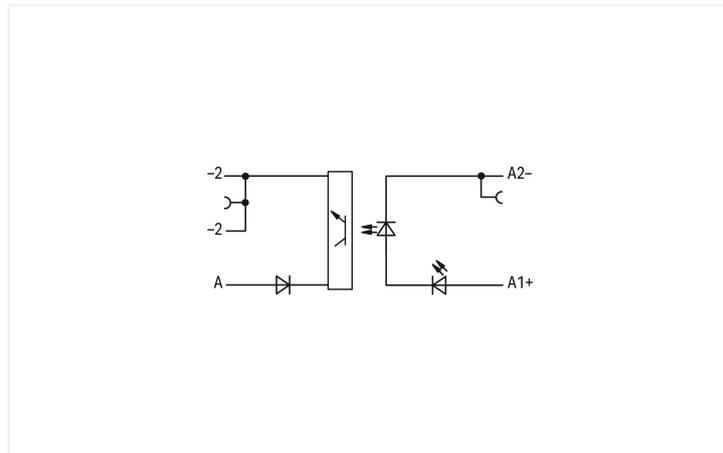
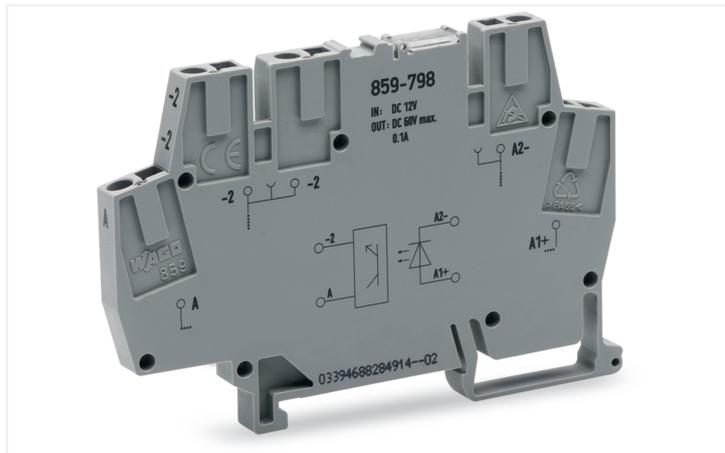


Data Sheet | Item Number: 859-722

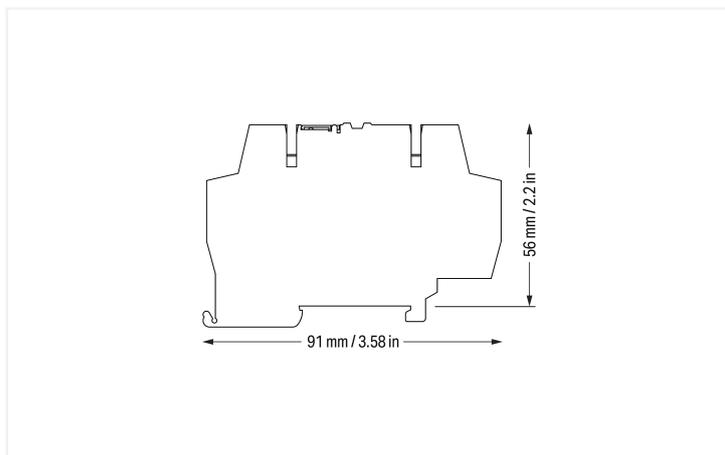
Optocoupler module; Nominal input voltage: 110 VDC; Output voltage range 12 ...30VDC; Limiting continuous current: 50 mA; 2-wire connection; Railway; Red status indicator; Module width: 6 mm; gray

<https://www.wago.com/859-722>



Color: ■ gray

Similar to illustration



Notes

Note

Optocouplers and solid state relays are designed for use in signal processing networks that are not supplied directly by the low-voltage power supply network.

Technical data

Control circuit

Nominal input voltage U_N	110 VDC
Input voltage range (low level)	0 ... 20 VDC
Input voltage range (high level)	77 ... 137.5 VDC
Nominal input current at U_N	3 mA

Load circuit

Circuit type	2-wire connection
Limiting continuous current	0.05 A
Nominal output voltage	24 VDC
Output voltage range	12 ... 30 VDC
Voltage drop	≤ 2 VDC
Leakage current at rated voltage	≤ 25 μ A
Turn-on time	≤ 20 μ s
Turn-off time	≤ 120 μ s
Switching frequency	≤ 1.5 kHz

Signaling

Status indicator	Red LED
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Safety and protection

Rated Voltage	300 V
Type of circuits	Mains circuits
Overvoltage category	II
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	3 kVrms
Insulation type (control/load circuit)	Reinforced insulation (safe isolation)
Insulation type (between adjacent devices of the same type)	Reinforced insulation (safe isolation)
Insulation type (to adjacent devices of different types)	Basic insulation
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

Note (material data)	Information on material specifications can be found here
Color	gray
Insulation material (main housing)	Polyamide (PA66)
Material group	I
Flammability class per UL94	V0
Fire load	0.313 MJ
Weight	18.3 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 61000-6-2 EN 61000-6-3 EN 50121-3-2
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Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966181883
Customs tariff number	85365005000

Product Classification

UNSPSC	32101517
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
ETIM 9.0	EC001504
ETIM 10.0	EC001504
ECCN	NO US CLASSIFICATION

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)	dfe1a7d2-46c3-4d04-bf7a-4858403092f5
SCIP notification number (Belgium)	f43dc37c-bdb5-4588-b72f-4306f91941b4
SCIP notification number (Bulgaria)	f19c7c25-c6e0-4ab5-aae5-db993d266f19
SCIP notification number (Czech Republic)	da301c04-9d3d-4478-8d7a-e3f9c5c6bc85
SCIP notification number (Denmark)	34f0dda5-2fd0-4fc4-b12c-d65b9b7e51c7
SCIP notification number (Finland)	64740d19-2f2a-4f26-91b3-9280c978c794
SCIP notification number (France)	91974923-8418-48b0-b0a8-1d0533551dc3
SCIP notification number (Germany)	ace42152-917e-487e-8ff2-72adb1344ae7
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SCIP notification number (Italy)	f44d140b-ae40-49bc-9be4-f06151455832
SCIP notification number (Netherlands)	55c35486-71b3-4589-ba95-f658d975343b
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SCIP notification number (Romania)	ed33b97c-9e70-4800-9cd2-06e7f46aecf7
SCIP notification number (Sweden)	de616fd9-5afb-4b92-ada0-a580fb1d138f

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 859-722



Documentation

Bid Text

859-722	06.12.2019	xml 3.99 KB	
859-722	06.12.2019	docx 13.58 KB	

Instruction Leaflet

Relay modules, Opto- coupler modules	V 2.0.0 19.01.2022	pdf 2066.27 KB	
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CAD/CAE-Data

CAD data

2D/3D Models 859-722



CAE data

EPLAN Data Portal
859-722



WSCAD Universe
859-722



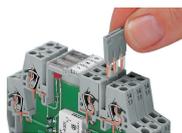
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System