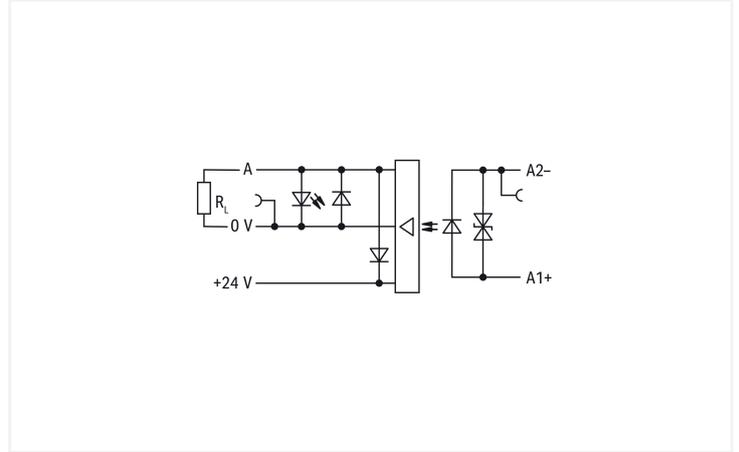
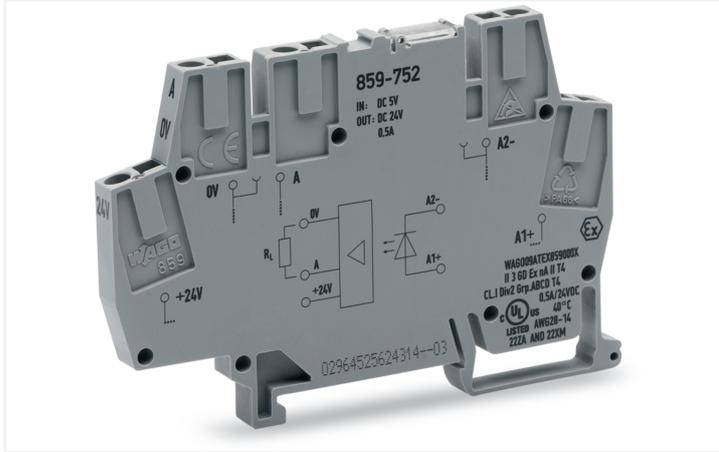


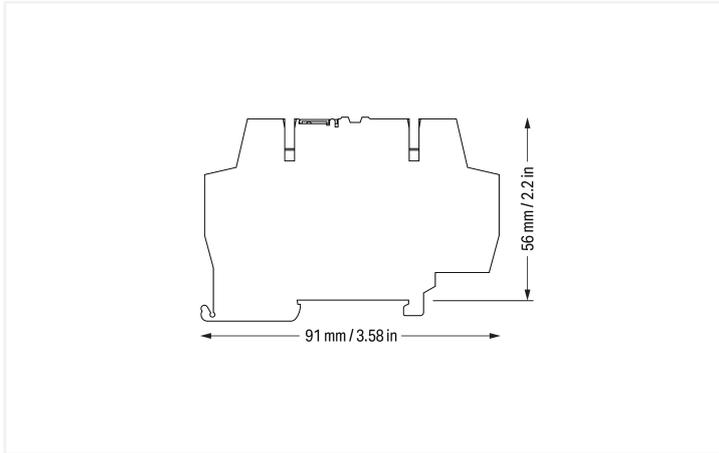
Data Sheet | Item Number: 859-735

Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 3 ... 30 VDC; Limiting continuous current: 0.25A; 3-wire connection/high-side switching; Railway; Frequency 20 kHz; Red status indicator; Module width: 6 mm

<https://www.wago.com/859-735>



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	24 VDC
Input voltage range	15 ... 30 VDC
Input voltage range (low level)	0 ... 5 VDC
Input voltage range (high level)	15 ... 30 VDC
Nominal input current at U_N	7 mA
Input current range	4.5 ... 7.3 mA

Load circuit

Circuit type	3-wire connection High-side switching
Limiting continuous current	1.5 A
Nominal output voltage	24 VDC
Output voltage range	3 ... 30 VDC
Voltage drop	≤ 1.2 VDC
Leakage current at rated voltage	≤ 10 μ A
Turn-on time	≤ 8 μ s
Turn-off time	≤ 9 μ s
Rise time (t_{10-90})	2.5 μ s

Load circuit

Drop-out time (t_{90-10})	1.5 μ s
Switching frequency	\leq 20 kHz

Signaling

Status indicator	Red LED
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Safety and protection

Rated Voltage	300 V
Overvoltage category	II
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	2.5 kVrms
Insulation type (control/load circuit)	Basic insulation
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	0.2 ... 2.5 mm ² / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 2.5 mm ² / 24 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.2 ... 1.5 mm ² / 24 ... 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
Insulation material (main housing)	Polyamide (PA66)
Material group	I
Flammability class per UL94	V0
Fire load	0.313 MJ
Weight	19 g

Environmental requirements

Ambient temperature (operation at U_N)	-40 ... +70 °C
Ambient temperature UL (operation at U_N)	-40 ... +40 °C
Ambient temperature (storage)	-40 ... +85 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	\geq ($T_{\text{ambient}} + 20$ 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 UL 508
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Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	10 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143600231
Customs tariff number	85365005000

Product Classification

UNSPSC	39121524
ETIM 9.0	EC001504
ETIM 10.0	EC001504
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1 75980-60-8 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	7(a) 7(c)-I
SCIP notification number (Austria)	74cf226d-9349-4e9a-be6a-2a8121b8e6cf
SCIP notification number (Belgium)	81f784a3-057e-4052-99f7-b406cf124ce3
SCIP notification number (Bulgaria)	26bf9f5e-54c9-4592-803a-0211fa038f62
SCIP notification number (Czech Republic)	0eb4bd70-8052-46cd-8ff6-909968d99347
SCIP notification number (Denmark)	7f9ccda2-a7d8-4451-aeb3-c3eac67a9406
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SCIP notification number (Romania)	61793835-f0d2-41b2-9cc3-8cac0d3b72ed
SCIP notification number (Sweden)	874de0a5-f944-4ba0-b430-6b816f4bd4ed

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508	E175199 Sec.4

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 859-735



CAD/CAE-Data

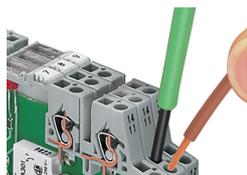
CAD data

2D/3D Models 859-735



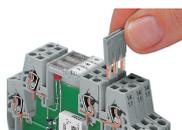
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System