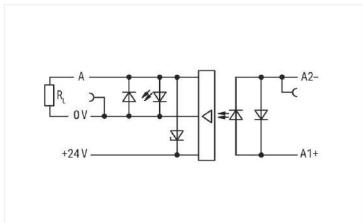
Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 20 ... 30 VDC; Limiting continuous current: 0.5 A; Frequency: 10 kHz; Module width: 6 mm; gray

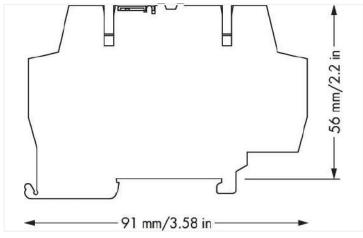


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Color: I gray



Dimensions in mm

Notes

Note

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

Technical data Control circuit Nominal input voltage U_N DC 24 V Input voltage range DC 15 ... 30 V Input voltage range (low level) DC 0 ... 5 V Input voltage range (high level) DC 18 ... 30 V Nominal input current at U_N 9 mA Input current range 4 ... 12 mA

Load circuit	
Circuit type	3-wire connection High-side switching
Limiting continuous current	1.2 A
Nominal output voltage	DC 24 V
Output voltage range	DC 3 30 V
Voltage drop	≤ 1.2 VDC
Leakage current at rated voltage	≤ 10 µA
Output closed-circuit current (without load) max.	11 mA
Turn-on time	≤ 3 µs
Turn-off time	≤ 12 µs
Rise time (t ₁₀₋₉₀)	1 µs
Drop-out time (t ₉₀₋₁₀)	1 µs

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Load circuit

Protection type

Switching frequency ≤ 20 kHz

Signaling

Status indicator Red LED

IP20; in connected state or when using 859-525 end plate

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

Connection data		
Connection technology	CAGE CLAMP®	
Solid conductor	0.2 2.5 mm² / 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		
Color	gray	
Fire load	0.638 MJ	
Weight	18.3 a	

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	≥ (T _{ambient} + 20 K)
Relative humidity	5 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

https://www.wago.com/859-758



Standards and specifications

Standards/specifications

EN 61000-6-2 EN 61000-6-3 UL 508

Commercial data	
Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
ETIM 8.0	EC001504
ETIM 7.0	EC001504
PU (SPU)	10 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143606127
Customs tariff number	85365005000

Environmental Product Compliance

RoHS Compliance Status

Compliant,No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 020/2011	EAC_Certificate_RU_C- DE.AM02.B.00115_19
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 508	E175199 Sec.4

Declarations of conformity and manufacturer's declarations

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

Approvals for hazardous areas



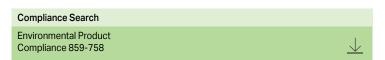
Approval	Standard	Certificate Name
CCC CNEX	CNCA-C23-01	2021312304000982 (Ex ec IIC T4 Gc)
UKEx WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX007X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	ANSI/ISA 12.12.01	E198726

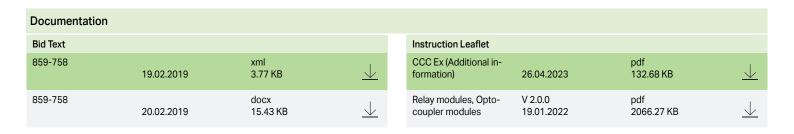
Downloads

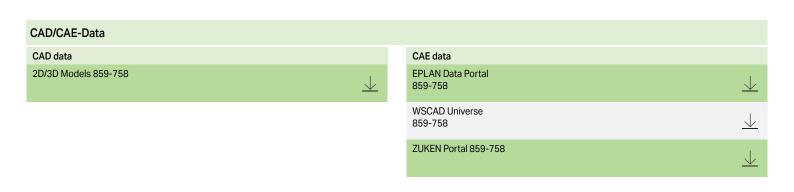
Environmental Product Compliance

https://www.wago.com/859-758









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

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1.1.2.1 Ferrule

Item No.: 216-321

Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow



Item No.: 216-223

Ferrule; Sleeve for 1 mm2 / AWG 18; insulated; electro-tin plated; red

Item No.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise



Item No.: 216-224

Ferrule; Sleeve for 1.5 mm2 / AWG 16; insulated; electro-tin plated; black

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

1.1.3 Jumper

1.1.3.1 Jumper



Item No.: 859-410/000-006

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



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



Item No.: 859-410/000-005 Jumper; for jumper slot; 10-way; insula-



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;



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

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



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



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; blue



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

Item No.: 859-404/000-005

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

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;

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.: 859-406/000-005

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



blue



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

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.: 859-407/000-005

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



Item No.: 859-408/000-006

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

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



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

Item No.: 859-408

Item No.: 859-407

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; 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;

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; yellow

1.1.4 Marking

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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; 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

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 \emptyset ; 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

https://www.wago.com/859-758



Commoning



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System

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