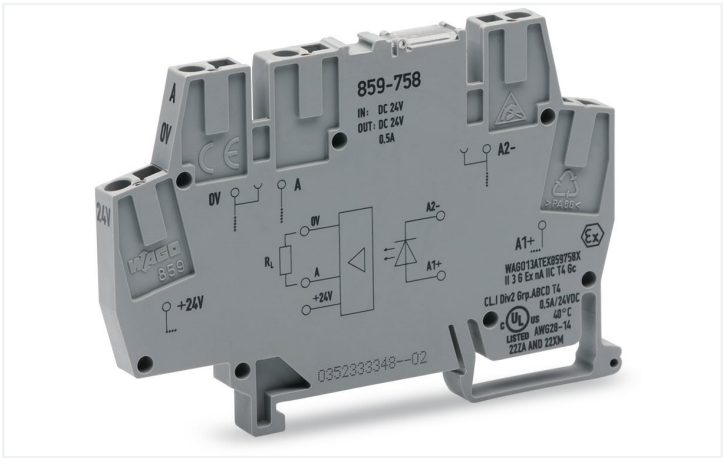


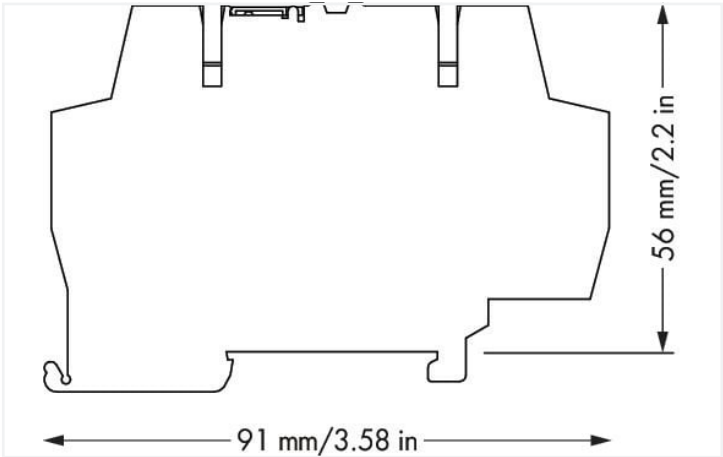
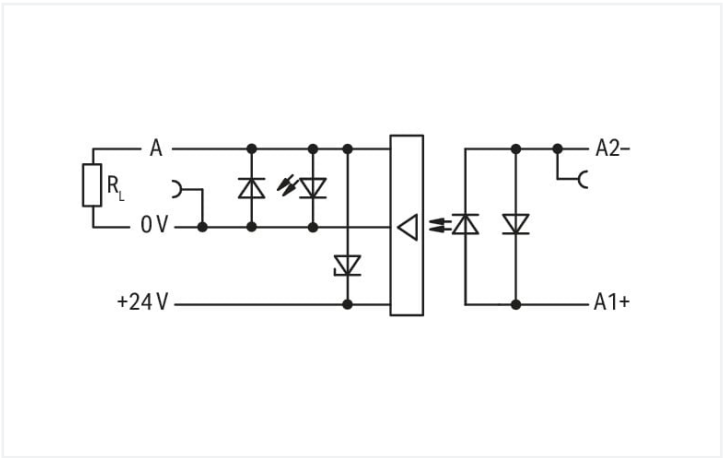
Data Sheet | Item Number: 859-758

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

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



Color: ■ 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		Load circuit	
Nominal input voltage U_N	DC 24 V	Circuit type	3-wire connection High-side switching
Input voltage range	DC 15 ... 30 V	Limiting continuous current	1.2 A
Input voltage range (low level)	DC 0 ... 5 V	Nominal output voltage	DC 24 V
Input voltage range (high level)	DC 18 ... 30 V	Output voltage range	DC 3 ... 30 V
Nominal input current at U_N	9 mA	Voltage drop	≤ 1.2 VDC
Input current range	4 ... 12 mA	Leakage current at rated voltage	≤ 10 μ A
		Output closed-circuit current (without load) max.	11 mA
		Turn-on time	≤ 3 μ s
		Turn-off time	≤ 12 μ s
		Rise time (t_{10-90})	1 μ s
		Drop-out time (t_{90-10})	1 μ s
		Switching frequency	≤ 20 kHz



Signaling	
Status indicator	Red LED

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 mm² / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 2.5 mm² / 24 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.2 ... 1.5 mm² / 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 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	≥ (T _{ambient} + 20 K)
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	2000 m



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			Declarations of conformity and manufacturer's declarations		
			Approval	Standard	Certificate Name
Approval	Standard	Certificate Name	EU-Declaration of Confor-		
EAC	TP TC 020/2011	EAC_Certificate_RU_C-	mity	-	-
Brjansker Zertifizierungs-		DE.AM02.B.00115_19	WAGO GmbH & Co. KG		
stelle					
UL	UL 508	E175199 Sec.4			
Underwriters Laboratories					
Inc. (ORDINARY LOCATI-					
ONS)					

Approvals for hazardous areas

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



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 859-758

Download icon

Documentation					
Bid Text			Instruction Leaflet		
859-758	19.02.2019	xml 3.77 KB	CCC Ex (Additional information)	26.04.2023	pdf 132.68 KB
859-758	20.02.2019	docx 15.43 KB	Relay modules, Opto-coupler modules	V 2.0.0 19.01.2022	pdf 2066.27 KB

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 859-758	EPLAN Data Portal 859-758
	WSCAD Universe 859-758
	ZUKEN Portal 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			
1.1.2.1 Ferrule			
			
Item No.: 216-321 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	Item No.: 216-322 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise	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
			
Item No.: 216-223 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	Item No.: 216-224 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black		
1.1.3 Jumper			
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; blue	Item No.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray	Item No.: 859-402/000-005 Jumper; for jumper slot; 2-way; insulated; red	Item No.: 859-402/000-029 Jumper; for jumper slot; 2-way; insulated; yellow
			
Item No.: 859-403/000-006 Jumper; for jumper slot; 3-way; insulated; blue	Item No.: 859-403 Jumper; for jumper slot; 3-way; insulated; light gray	Item No.: 859-403/000-005 Jumper; for jumper slot; 3-way; insulated; red	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	Item No.: 859-404 Jumper; for jumper slot; 4-way; insulated; light gray	Item No.: 859-404/000-005 Jumper; for jumper slot; 4-way; insulated; red	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; red	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; blue	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; red	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; red	Item No.: 859-407/000-029 Jumper; for jumper slot; 7-way; insulated; yellow
			
Item No.: 859-408/000-006 Jumper; for jumper slot; 8-way; insulated; blue	Item No.: 859-408 Jumper; for jumper slot; 8-way; insulated; light gray	Item No.: 859-408/000-005 Jumper; for jumper slot; 8-way; insulated; red	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; light gray	Item No.: 859-409/000-005 Jumper; for jumper slot; 9-way; insulated; red	Item No.: 859-409/000-029 Jumper; for jumper slot; 9-way; insulated; yellow



1.1.4 Marking

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



Item No.: 248-503
Mini-WSB marking card; as card; MARKED; 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 device



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; CAT0; 1 A; 10 mm uninsulated; Test lead for soldering up to 0,5mm²

1.1.6 Tool

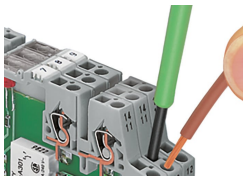
1.1.6.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

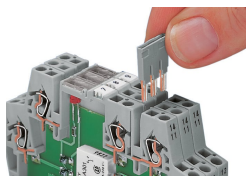
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System