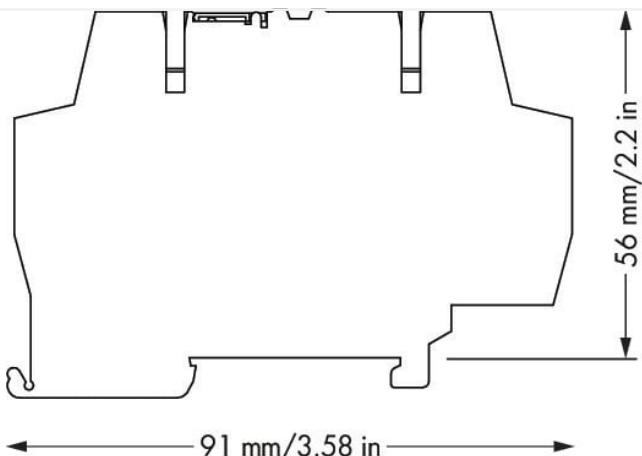
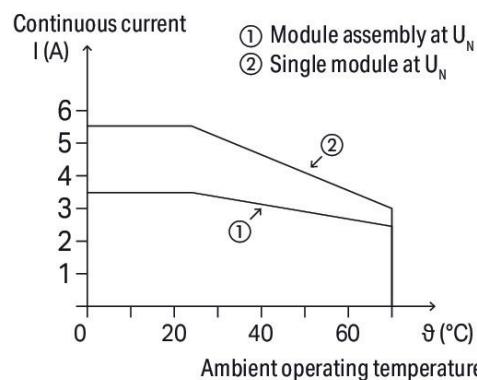


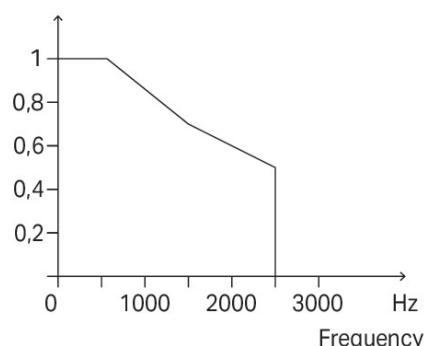
Color: ■ gray



Dimensions in mm



Current-carrying capacity curve



Load current correction factor

**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 $U_N$	DC 24 V
Input voltage range (low level)	DC 0 ... 6.5 V
Input voltage range (high level)	DC 16 ... 30 V
Nominal input current at $U_N$	8 mA
Input current range	1 ... 12 mA

**Load circuit**

Number of make/switch-on contacts	1
Circuit type	2-wire connection
Limiting continuous current	5.5 A
Peak output current	25 A
Nominal output voltage	DC 24 V
Output voltage range	DC 3 ... 30 V
Voltage drop	$\leq 0.4$ VDC
Leakage current at rated voltage	$\leq 10$ $\mu$ A
Turn-on time	$\leq 30$ $\mu$ s
Turn-off time	$\leq 100$ $\mu$ s
Rise time ( $t_{10-90}$ )	16 $\mu$ s
Drop-out time ( $t_{90-10}$ )	16 $\mu$ s
Switching frequency	$\leq 2.5$ kHz

**Signaling**

Status indicator	Yellow 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 <sup>2</sup> / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 2.5 mm <sup>2</sup> / 24 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.2 ... 1.5 mm <sup>2</sup> / 24 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.2 ... 1.5 mm <sup>2</sup> / 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)	<a href="#">Information on material specifications can be found here</a>
Color	gray
Insulation material (main housing)	Polyamide (PA66)
Material group	I
Flammability class per UL94	V0
Fire load	0.443 MJ
Weight	18.5 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	$\geq (T_{\text{ambien}} + 20 \text{ K})$
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
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**Commercial data**

Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
ETIM 9.0	EC001504
ETIM 8.0	EC001504
PU (SPU)	10 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143605427
Customs tariff number	85365005000

## Environmental Product Compliance

RoHS Compliance Status

Compliant, No Exemption

## Approvals / Certificates

## General approvals



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

## Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity	-	-

## 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 LOCATIONS)	ANSI/ISA 12.12.01	E198726

## Downloads

## Environmental Product Compliance

## Compliance Search

Environmental Product  
Compliance 859-740

## Documentation

Bid Text			
859-740	19.02.2019	xml 3.77 KB	
859-740	20.02.2019	docx 15.30 KB	

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 132.68 KB	
Relay modules, Opto-coupler modules	V 2.0.0 19.01.2022	pdf 2066.27 KB	

## CAD/CAE-Data

## CAD data

2D/3D Models 859-740



## CAE data

EPLAN Data Portal  
859-740WSCAD Universe  
859-740

ZUKEN Portal 859-740



## 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 mm<sup>2</sup> / AWG 24; in-  
sulated; electro-tin plated; yellow[Item No.: 216-322](#)Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; in-  
sulated; electro-tin plated; light turquoise[Item No.: 216-221](#)Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; in-  
sulated; electro-tin plated; white[Item No.: 216-222](#)Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; in-  
sulated; electro-tin plated; gray[Item No.: 216-223](#)Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insu-  
lated; electro-tin plated; red[Item No.: 216-224](#)Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; in-  
sulated; electro-tin plated; black

## 1.1.3 Jumper

## 1.1.3.1 Jumper

			
<a href="#">Item No.: 859-410/000-006</a> Jumper; for jumper slot; 10-way; insulated; blue	<a href="#">Item No.: 859-410</a> Jumper; for jumper slot; 10-way; insulated; light gray	<a href="#">Item No.: 859-410/000-005</a> Jumper; for jumper slot; 10-way; insulated; red	<a href="#">Item No.: 859-410/000-029</a> Jumper; for jumper slot; 10-way; insulated; yellow
			
<a href="#">Item No.: 859-402/000-006</a> Jumper; for jumper slot; 2-way; insulated; blue	<a href="#">Item No.: 859-402</a> Jumper; for jumper slot; 2-way; insulated; light gray	<a href="#">Item No.: 859-402/000-005</a> Jumper; for jumper slot; 2-way; insulated; red	<a href="#">Item No.: 859-402/000-029</a> Jumper; for jumper slot; 2-way; insulated; yellow
			
<a href="#">Item No.: 859-403/000-006</a> Jumper; for jumper slot; 3-way; insulated; blue	<a href="#">Item No.: 859-403</a> Jumper; for jumper slot; 3-way; insulated; light gray	<a href="#">Item No.: 859-403/000-005</a> Jumper; for jumper slot; 3-way; insulated; red	<a href="#">Item No.: 859-403/000-029</a> Jumper; for jumper slot; 3-way; insulated; yellow
			
<a href="#">Item No.: 859-404/000-006</a> Jumper; for jumper slot; 4-way; insulated; blue	<a href="#">Item No.: 859-404</a> Jumper; for jumper slot; 4-way; insulated; light gray	<a href="#">Item No.: 859-404/000-005</a> Jumper; for jumper slot; 4-way; insulated; red	<a href="#">Item No.: 859-404/000-029</a> Jumper; for jumper slot; 4-way; insulated; yellow
			
<a href="#">Item No.: 859-405/000-006</a> Jumper; for jumper slot; 5-way; insulated; blue	<a href="#">Item No.: 859-405</a> Jumper; for jumper slot; 5-way; insulated; light gray	<a href="#">Item No.: 859-405/000-005</a> Jumper; for jumper slot; 5-way; insulated; red	<a href="#">Item No.: 859-405/000-029</a> Jumper; for jumper slot; 5-way; insulated; yellow
			
<a href="#">Item No.: 859-406/000-006</a> Jumper; for jumper slot; 6-way; insulated; blue	<a href="#">Item No.: 859-406</a> Jumper; for jumper slot; 6-way; insulated; light gray	<a href="#">Item No.: 859-406/000-005</a> Jumper; for jumper slot; 6-way; insulated; red	<a href="#">Item No.: 859-406/000-029</a> Jumper; for jumper slot; 6-way; insulated; signal yellow
			
<a href="#">Item No.: 859-407/000-006</a> Jumper; for jumper slot; 7-way; insulated; blue	<a href="#">Item No.: 859-407</a> Jumper; for jumper slot; 7-way; insulated; light gray	<a href="#">Item No.: 859-407/000-005</a> Jumper; for jumper slot; 7-way; insulated; red	<a href="#">Item No.: 859-407/000-029</a> Jumper; for jumper slot; 7-way; insulated; yellow
			
<a href="#">Item No.: 859-408/000-006</a> Jumper; for jumper slot; 8-way; insulated; blue	<a href="#">Item No.: 859-408</a> Jumper; for jumper slot; 8-way; insulated; light gray	<a href="#">Item No.: 859-408/000-005</a> Jumper; for jumper slot; 8-way; insulated; red	<a href="#">Item No.: 859-408/000-029</a> Jumper; for jumper slot; 8-way; insulated; yellow
			
<a href="#">Item No.: 859-409/000-006</a> Jumper; for jumper slot; 9-way; insulated; blue	<a href="#">Item No.: 859-409</a> Jumper; for jumper slot; 9-way; insulated; light gray	<a href="#">Item No.: 859-409/000-005</a> Jumper; for jumper slot; 9-way; insulated; red	<a href="#">Item No.: 859-409/000-029</a> Jumper; for jumper slot; 9-way; insulated; yellow

## 1.1.4 Marking

## 1.1.4.1 Marker

			
<a href="#">Item No.: 2009-145</a> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="#">Item No.: 248-502</a> Mini-WSB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="#">Item No.: 248-503</a> Mini-WSB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="#">Item No.: 248-504</a> Mini-WSB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white
			
<a href="#">Item No.: 248-506</a> Mini-WSB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white	<a href="#">Item No.: 248-501</a> 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 0,5mm<sup>2</sup>

#### 1.1.6 Tool

##### 1.1.6.1 Operating tool

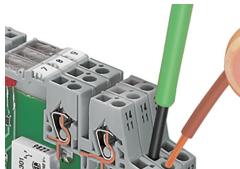


[Item No.: 210-720](#)

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

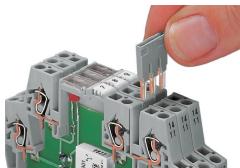
#### Installation Notes

##### Conductor termination



Conductor termination

##### Commoning



Easy commoning using adjacent jumpers

## Marking



Marking via Mini-WSB Quick Marking System