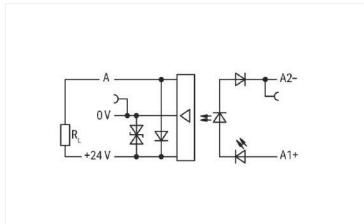
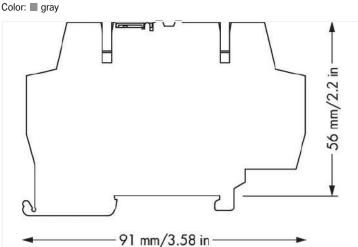
Optocoupler module; Nominal input voltage: 24 VDC; Output voltage range: 0 ... 24 VDC; Limiting continuous current: 6 A; 3-wire connection/low-side switching; Module width: 6 mm; gray



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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 (low level) DC 0 ... 3 V Input voltage range (high level) DC 16 ... 30 V Nominal input current at U_N 4 mA

Load circuit	
Circuit type	3-wire connection Low-side switching
Limiting continuous current	3 A
Peak output current	20 A
Nominal output voltage	DC 24 V
Output voltage range	DC 10 30 V
Voltage drop	≤ 0.5 VDC
Leakage current at rated voltage	≤ 25 µA
Turn-on time	≤ 30 µs
Turn-off time	≤ 75 µs
Rise time (t ₁₀₋₉₀)	16 µs
Drop-out time (t ₉₀₋₁₀)	20 µs
Switching frequency	≤ 2 kHz (

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Signaling

Status indicator Red LED

Safety and protection	
Rated voltage	300 V
Overvoltage category	I
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	2.5 kVrms
Insulation type (control/load circuit)	Basic insulation
Insulation type (adjacent devices)	Reinforced insulation (safe isolation)
Protection type	IP20: in connected state or when using 859-525 and 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

DIN-35 rail Mounting type

Mounting position horizontal (standing/lying); vertical

Material data		
Color	gray	
Fire load	0.538 MJ	
Weight	18.3 g	

Environmental requirements	
Ambient temperature (operation at U _N)	-25 +40 °C
Ambient temperature UL (operation at U _N)	-25 +40 °C
Ambient temperature (storage)	-40 +70 °C
Processing temperature	-25 +50 °C
Temperature range of connection cable	≥ (T _{ambient} + 20 K)
Relative humidity	595 % (no condensation permissible)
Operating altitude (max.)	2000 m

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Standards and specifications

Standards/specifications

EN 61010-2-201 EN 61000-6-2 EN 61000-6-3 EN 61373 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)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143604802
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 Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas



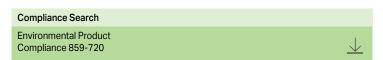
Approval	Standard	Certificate Name
CCC CNEX	CNCA-C23-01	2021312304000982 (Ex ec IIC T4 Gc)
UKEx WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX007X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	ANSI/ISA 12.12.01	E198726

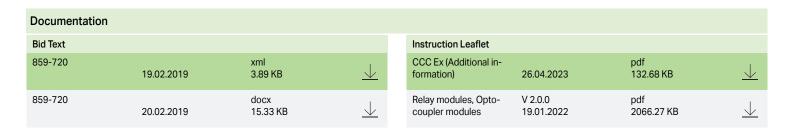
Downloads

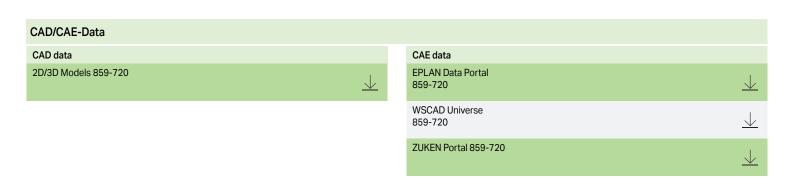
Environmental Product Compliance

https://www.wago.com/859-720









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

https://www.wago.com/859-720



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

Item No.: 859-410/000-005

Item No.: 859-402/000-005

Item No.: 859-403/000-005

Item No.: 859-404/000-005

Item No.: 859-405/000-005

Item No.: 859-406/000-005

Item No.: 859-407/000-005

Jumper; for jumper slot; 10-way; insula-

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

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

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

Jumper; for jumper slot; 5-way; insulated;

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

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

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

Item No.: 216-222

Item No.: 859-410/000-029

Item No.: 859-402/000-029

Item No.: 859-403/000-029

Item No.: 859-404/000-029

Item No.: 859-405/000-029

Item No.: 859-406/000-029

Item No.: 859-407/000-029

Item No.: 859-408/000-029

ted; yellow

yellow

yellow

yellow

signal yellow

yellow

Jumper; for jumper slot; 10-way; insula-

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

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

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

Jumper; for jumper slot; 5-way; insulated;

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

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

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



Item No.: 859-402/000-006

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



Item No.: 859-403/000-006

Jumper; for jumper slot; 3-way; insulated; blue



Item No.: 859-404/000-006

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



Item No.: 859-405/000-006

Jumper; for jumper slot; 5-way; insulated; blue



Item No.: 859-406/000-006

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



Item No.: 859-407/000-006

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



Item No.: 859-408/000-006

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



Item No.: 859-409/000-006

Jumper; for jumper slot; 9-way; insulated;

Item No.: 859-410

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

Tomana



Item No.: 859-402

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

Item No.: 859-403 Jumper; for jumper slot; 3-way; insulated; light gray

Item No.: 859-404 Jumper; for jumper slot; 4-way; insulated;

light gray

Item No.: 859-405

Jumper; for jumper slot; 5-way; insulated; light gray

Item No.: 859-406 Jumper; for jumper slot; 6-way; insulated; light gray

Item No.: 859-407 Jumper; for jumper slot; 7-way; insulated; light gray

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

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

Item No.: 859-408/000-005

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

blue

Item No.: 859-409

Item No.: 859-408

light gray

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

https://www.wago.com/859-720



1.1.4.1 Marker





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/859-720



Commoning



Easy commoning using adjacent jumpers

Marking



Marking via Mini-WSB Quick Marking System

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