

Data Sheet | Item Number: 857-1430

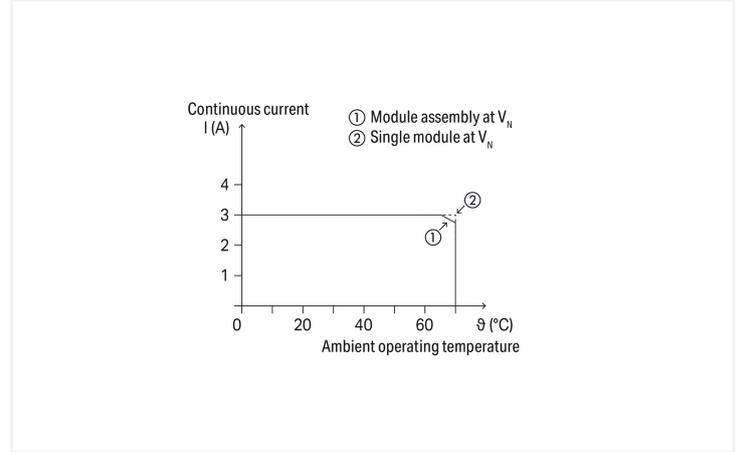
Optocoupler module; 2-port; Nominal input voltage: 24 VDC; Output voltage range: 3 ... 31.2 VDC; Limiting continuous current: 3 A; 2-wire connection; Yellow status indicator; Module width: 6 mm; light gray



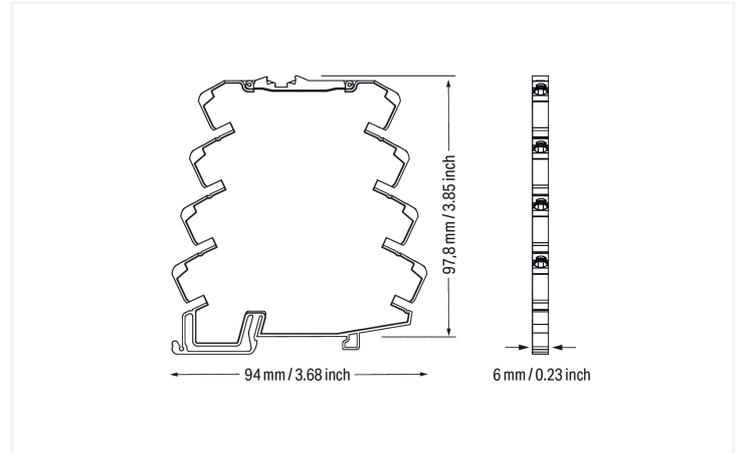
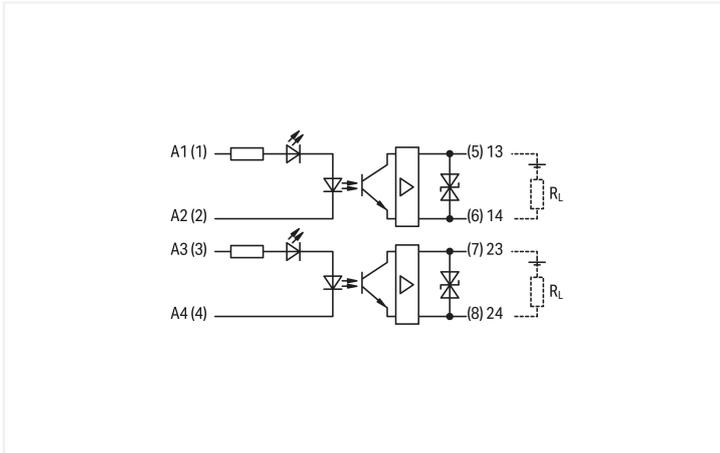
<https://www.wago.com/857-1430>



Color: ■ light gray



Current-carrying capacity curve



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		Load circuit	
Control circuit		Load circuit	
Nominal input voltage U_N	24 VDC	Circuit type	2-way 2-wire connection
Input voltage range (low level)	0 ... 5 VDC	Limiting continuous current	3 A
Input voltage range (high level)	16.8 ... 31.2 VDC	Nominal output voltage	24 VDC
Nominal input current at U_N	8 mA	Output voltage range	3 ... 31.2 VDC
		Voltage drop	≤ 0.2 VDC
		Leakage current at rated voltage	≤ 250 μ A
		Turn-on time	≤ 25 μ s
		Turn-off time	≤ 250 μ s
		Switching frequency	≤ 300 Hz

Load circuit

Short circuit protection (load circuit) 3.15 A; Slow (T)

Signaling

Status indicator Yellow LED

Safety and protection

Rated Voltage	300 V
Overtoltage category	II
Pollution degree	2
Dielectric strength (control/load circuit) (AC, 1 min)	2.5 kVrms
Dielectric strength (channel/channel) (AC, 1 min.)	3.5 kVrms
Insulation type (control/load circuit)	Basic insulation
Insulation type (load/load circuit)	Reinforced insulation (safe isolation)
Insulation type (between adjacent devices of the same type)	Reinforced insulation (safe isolation)
Insulation type (to adjacent devices of different types)	Reinforced insulation (safe isolation)
Protection type	IP20

Connection Data

Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.34 ... 2.5 mm ² / 22 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm ² / 22 ... 14 AWG
Fine-stranded conductor; with insulated ferrule	0.34 ... 1.5 mm ² / 22 ... 16 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

Physical data

Width	6 mm / 0.236 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	97.8 mm / 3.85 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
Color	light gray
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.363 MJ
Weight	32.8 g

Environmental requirements

Ambient temperature (operation at U _N)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +70 °C
Processing temperature	-25 ... +50 °C
Temperature range of connection cable	≥ (T _{ambient} + 30 K)
Relative humidity	5 ... 85 % (no condensation permissible)
Operating altitude (max.)	2000 m

Standards and Specifications

Standards/specifications	EN 61000-6-2 EN 61000-6-3 EN 61373 EN 61010-2-201 UL 508 (max. 70 °C / 2 A) DNV
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Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	25 (1) pcs
Packaging type	Box
Country of origin	DE
GTIN	4066966389999
Customs tariff number	85365005000

Product Classification

UNSPSC	39121552
eCl@ss 10.0	27-26-15-03
eCl@ss 9.0	27-26-15-03
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 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	7be5277c-4769-437b-ac37-9ccb15dee449
SCIP notification number (Belgium)	7a08602f-6e22-4743-aa55-483e71a8147a
SCIP notification number (Bulgaria)	2c4bc710-e6d3-42da-89dc-a43c4549be01
SCIP notification number (Czech Republic)	d9d876e5-a5f9-43b1-b0d8-2a867c68093e
SCIP notification number (Denmark)	7ed03745-475f-4d76-9946-29517426cf1a
SCIP notification number (Finland)	210d4573-9c78-4b73-b42c-602be9bab4b1
SCIP notification number (France)	7d28594d-b673-4142-8334-0cf9f07060c7
SCIP notification number (Germany)	b6d067ad-1fd0-40d1-9066-62a3bfa0f99e
SCIP notification number (Hungary)	235e6cb9-cdef-42ff-b68e-c7b20968689b
SCIP notification number (Italy)	48f3cdda-333b-4364-b039-00947409dd65
SCIP notification number (Netherlands)	4ecba9a5-ea21-462f-8c13-e30b2cfa7980
SCIP notification number (Poland)	2c586d49-820a-4faf-9151-f6effbfbf74b
SCIP notification number (Romania)	d7f6abbb-acda-4605-a1cd-5eaa83bcbd2a
SCIP notification number (Sweden)	29327227-3067-4519-87a2-4db1f2e05509

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

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications



Approval	Standard	Certificate Name
BV Bureau Veritas S.A.	Rules for class. of Steel Ships	40179_B0
DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA00001D1

Approvals for hazardous areas



Approval	Standard	Certificate Name
ATEX DEKRA EXAM GmbH	EN 60079-0	BVS_14_ATEX_E_091_X (II 3G Ex ec nC IIC T4 Gc; II 3G Ex ec IIC T4 Gc)
CCC CNEX	CNCA-C23-01	2020312304000757 (Ex ec IIC T4 Gc)
IECEX DEKRA EXAM GmbH	IEC 60079-0	IECEX_BVS_14.0079X_issue_3 (Ex ec nC IIC T4 Gc; Ex ec IIC T4 Gc)
UKEX WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX002X_ec

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 857-1430	↓
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Documentation

Bid Text			
857-1430	19.02.2019	xml 3.86 KB	↓
857-1430	20.02.2019	docx 16.09 KB	↓

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 129.88 KB	↓

CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 857-1430		EPLAN Data Portal 857-1430	
		WSCAD Universe 857-1430	
		ZUKEN Portal 857-1430	

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

<p>Item No.: 216-241 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white</p>	<p>Item No.: 216-242 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p>	<p>Item No.: 216-243 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</p>	<p>Item No.: 216-244 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black</p>

1.1.2 Jumper

1.1.2.1 Jumper

<p>Item No.: 281-482 Jumper; 2-way; insulated; gray</p>	<p>Item No.: 859-410/000-006 Jumper; for jumper slot; 10-way; insulated; blue</p>	<p>Item No.: 859-410 Jumper; for jumper slot; 10-way; insulated; light gray</p>	<p>Item No.: 859-410/000-005 Jumper; for jumper slot; 10-way; insulated; red</p>
<p>Item No.: 859-410/000-029 Jumper; for jumper slot; 10-way; insulated; yellow</p>	<p>Item No.: 859-402/000-006 Jumper; for jumper slot; 2-way; insulated; blue</p>	<p>Item No.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray</p>	<p>Item No.: 859-402/000-005 Jumper; for jumper slot; 2-way; insulated; red</p>
<p>Item No.: 859-402/000-029 Jumper; for jumper slot; 2-way; insulated; yellow</p>	<p>Item No.: 859-403/000-006 Jumper; for jumper slot; 3-way; insulated; blue</p>	<p>Item No.: 859-403 Jumper; for jumper slot; 3-way; insulated; light gray</p>	<p>Item No.: 859-403/000-005 Jumper; for jumper slot; 3-way; insulated; red</p>
<p>Item No.: 859-403/000-029 Jumper; for jumper slot; 3-way; insulated; yellow</p>	<p>Item No.: 859-404/000-006 Jumper; for jumper slot; 4-way; insulated; blue</p>	<p>Item No.: 859-404 Jumper; for jumper slot; 4-way; insulated; light gray</p>	<p>Item No.: 859-404/000-005 Jumper; for jumper slot; 4-way; insulated; red</p>
<p>Item No.: 859-404/000-029 Jumper; for jumper slot; 4-way; insulated; yellow</p>	<p>Item No.: 859-405/000-006 Jumper; for jumper slot; 5-way; insulated; blue</p>	<p>Item No.: 859-405 Jumper; for jumper slot; 5-way; insulated; light gray</p>	<p>Item No.: 859-405/000-005 Jumper; for jumper slot; 5-way; insulated; red</p>
<p>Item No.: 859-405/000-029 Jumper; for jumper slot; 5-way; insulated; yellow</p>	<p>Item No.: 859-406/000-006 Jumper; for jumper slot; 6-way; insulated; blue</p>	<p>Item No.: 859-406 Jumper; for jumper slot; 6-way; insulated; light gray</p>	<p>Item No.: 859-406/000-005 Jumper; for jumper slot; 6-way; insulated; red</p>

1.1.2.1 Jumper



Item No.: 859-406/000-029
Jumper; for jumper slot; 6-way; insulated; 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

1.1.3 Marking

1.1.3.1 Double marker carrier



Item No.: 209-128
Adaptor; gray

1.1.3.2 Group marker carrier



Item No.: 249-105
Group marker carrier; gray

1.1.3.3 Marker



Item No.: 209-183
Marker; white

Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

Item No.: 793-502
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-566
WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-503
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-504
WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-505
WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white

Item No.: 793-506
WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white

Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.1.3.4 Marking device



Item No.: 210-110

Fiber-tip pen

1.1.3.5 Marking strip



Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.3.6 Protective marker cover



Item No.: 209-184

Protection cover; transparent

1.1.4 Tool

1.1.4.1 Operating tool

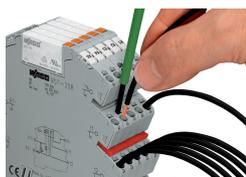


Item No.: 210-720

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

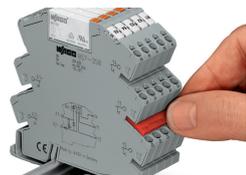
Installation Notes

Conductor termination



Conductor termination

Commoning



Easy commoning using adjacent jumpers

Marking



Marking via WMB Multi Marking System.