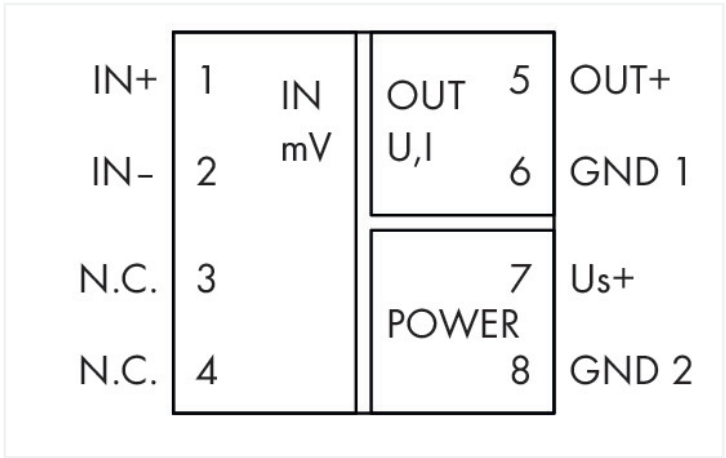
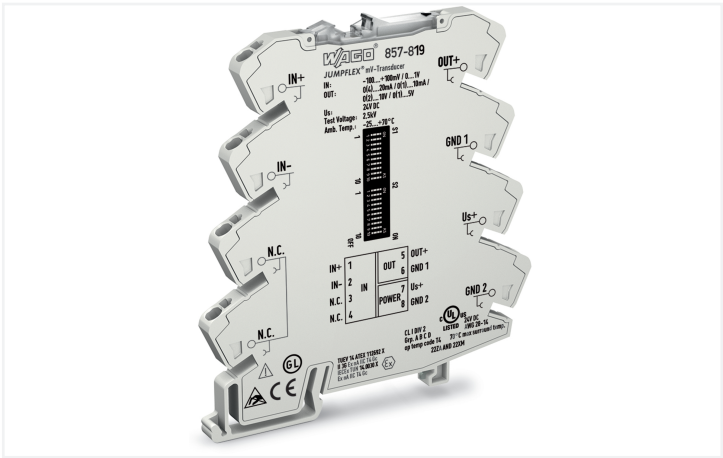


Data Sheet | Item Number: 857-819

Voltage signal conditioner; Bipolar voltage input signal; Current and voltage output signal; Configuration via software; Supply voltage: 24 VDC; 6 mm module width; 2,50 mm²

<https://www.wago.com/857-819>



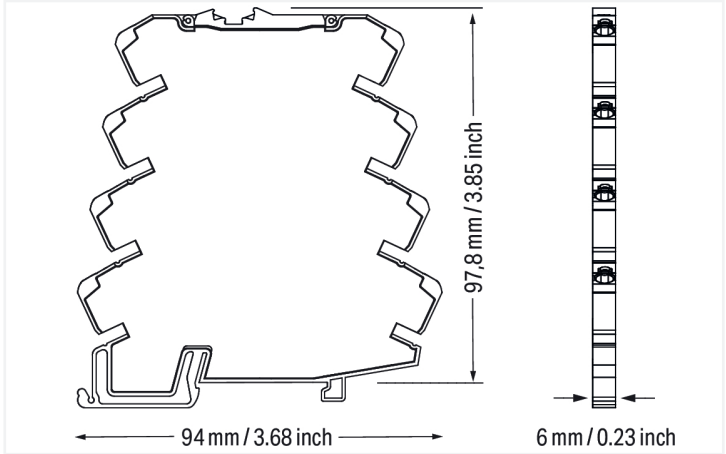
857-819
DIP Switch Adjustability

Input	Output	Input	Output
Short Value	Short Value	Short Value	Short Value
DIP 1	DIP 2	DIP 3	DIP 4
DIP 5	DIP 6	DIP 7	DIP 8
DIP 9	DIP 10	DIP 11	DIP 12
DIP 13	DIP 14	DIP 15	DIP 16
DIP 17	DIP 18	DIP 19	DIP 20
DIP 21	DIP 22	DIP 23	DIP 24
DIP 25	DIP 26	DIP 27	DIP 28
DIP 29	DIP 30	DIP 31	DIP 32
DIP 33	DIP 34	DIP 35	DIP 36
DIP 37	DIP 38	DIP 39	DIP 40
DIP 41	DIP 42	DIP 43	DIP 44
DIP 45	DIP 46	DIP 47	DIP 48
DIP 49	DIP 50	DIP 51	DIP 52
DIP 53	DIP 54	DIP 55	DIP 56
DIP 57	DIP 58	DIP 59	DIP 60
DIP 61	DIP 62	DIP 63	DIP 64
DIP 65	DIP 66	DIP 67	DIP 68
DIP 69	DIP 70	DIP 71	DIP 72
DIP 73	DIP 74	DIP 75	DIP 76
DIP 77	DIP 78	DIP 79	DIP 80
DIP 81	DIP 82	DIP 83	DIP 84
DIP 85	DIP 86	DIP 87	DIP 88
DIP 89	DIP 90	DIP 91	DIP 92
DIP 93	DIP 94	DIP 95	DIP 96
DIP 97	DIP 98	DIP 99	DIP 100

DIP Switch 10

Output Signal	Measurement Range Underflow	Measurement Range Overflow
4 ... 20 mA	0 mA / 3.3 mA / 5 mA / 10 mA / 15 mA / 20 mA / 25 mA / 30 mA / 35 mA / 40 mA / 45 mA / 50 mA / 55 mA / 60 mA / 65 mA / 70 mA / 75 mA / 80 mA / 85 mA / 90 mA / 95 mA / 100 mA	100 mA / 150 mA / 200 mA / 250 mA / 300 mA / 350 mA / 400 mA / 450 mA / 500 mA / 550 mA / 600 mA / 650 mA / 700 mA / 750 mA / 800 mA / 850 mA / 900 mA / 950 mA / 1000 mA
0 ... 10 mA	0 mA / 2.2 mA / 4.4 mA / 6.6 mA / 8.8 mA / 11 mA / 13.2 mA / 15.4 mA / 17.6 mA / 19.8 mA / 22 mA / 24.2 mA / 26.4 mA / 28.6 mA / 30.8 mA / 33 mA / 35.2 mA / 37.4 mA / 39.6 mA / 41.8 mA / 44 mA / 46.2 mA / 48.4 mA / 50.6 mA / 52.8 mA / 55 mA / 57.2 mA / 59.4 mA / 61.6 mA / 63.8 mA / 66 mA / 68.2 mA / 70.4 mA / 72.6 mA / 74.8 mA / 77 mA / 79.2 mA / 81.4 mA / 83.6 mA / 85.8 mA / 88 mA / 90.2 mA / 92.4 mA / 94.6 mA / 96.8 mA / 99 mA / 101.2 mA / 103.4 mA / 105.6 mA / 107.8 mA / 110 mA	110 mA / 165 mA / 220 mA / 275 mA / 330 mA / 385 mA / 440 mA / 495 mA / 550 mA / 605 mA / 660 mA / 715 mA / 770 mA / 825 mA / 880 mA / 935 mA / 990 mA / 1045 mA / 1100 mA
0 ... 10 V	0 V / 2.2 V / 4.4 V / 6.6 V / 8.8 V / 11 V / 13.2 V / 15.4 V / 17.6 V / 19.8 V / 22 V / 24.2 V / 26.4 V / 28.6 V / 30.8 V / 33 V / 35.2 V / 37.4 V / 39.6 V / 41.8 V / 44 V / 46.2 V / 48.4 V / 50.6 V / 52.8 V / 55 V / 57.2 V / 59.4 V / 61.6 V / 63.8 V / 66 V / 68.2 V / 70.4 V / 72.6 V / 74.8 V / 77 V / 79.2 V / 81.4 V / 83.6 V / 85.8 V / 88 V / 90.2 V / 92.4 V / 94.6 V / 96.8 V / 99 V / 101.2 V / 103.4 V / 105.6 V / 107.8 V / 110 V	110 V / 165 V / 220 V / 275 V / 330 V / 385 V / 440 V / 495 V / 550 V / 605 V / 660 V / 715 V / 770 V / 825 V / 880 V / 935 V / 990 V / 1045 V / 1100 V
0 ... 5 V	0 V / 1.1 V / 2.2 V / 3.3 V / 4.4 V / 5.5 V / 6.6 V / 7.7 V / 8.8 V / 9.9 V / 11 V / 12.1 V / 13.2 V / 14.3 V / 15.4 V / 16.5 V / 17.6 V / 18.7 V / 19.8 V / 20.9 V / 22 V / 23.1 V / 24.2 V / 25.3 V / 26.4 V / 27.5 V / 28.6 V / 29.7 V / 30.8 V / 31.9 V / 33 V / 34.1 V / 35.2 V / 36.3 V / 37.4 V / 38.5 V / 39.6 V / 40.7 V / 41.8 V / 42.9 V / 44 V / 45.1 V / 46.2 V / 47.3 V / 48.4 V / 49.5 V / 50.6 V / 51.7 V / 52.8 V / 53.9 V / 55 V / 56.1 V / 57.2 V / 58.3 V / 59.4 V / 60.5 V / 61.6 V / 62.7 V / 63.8 V / 64.9 V / 66 V / 67.1 V / 68.2 V / 69.3 V / 70.4 V / 71.5 V / 72.6 V / 73.7 V / 74.8 V / 75.9 V / 77 V / 78.1 V / 79.2 V / 80.3 V / 81.4 V / 82.5 V / 83.6 V / 84.7 V / 85.8 V / 86.9 V / 88 V / 89.1 V / 90.2 V / 91.3 V / 92.4 V / 93.5 V / 94.6 V / 95.7 V / 96.8 V / 97.9 V / 99 V / 100.1 V / 101.2 V / 102.3 V / 103.4 V / 104.5 V / 105.6 V / 106.7 V / 107.8 V / 108.9 V / 110 V	110 V / 165 V / 220 V / 275 V / 330 V / 385 V / 440 V / 495 V / 550 V / 605 V / 660 V / 715 V / 770 V / 825 V / 880 V / 935 V / 990 V / 1045 V / 1100 V
1 ... 5 V	1 V / 1.1 V / 1.2 V / 1.3 V / 1.4 V / 1.5 V / 1.6 V / 1.7 V / 1.8 V / 1.9 V / 2 V / 2.1 V / 2.2 V / 2.3 V / 2.4 V / 2.5 V / 2.6 V / 2.7 V / 2.8 V / 2.9 V / 3 V / 3.1 V / 3.2 V / 3.3 V / 3.4 V / 3.5 V / 3.6 V / 3.7 V / 3.8 V / 3.9 V / 4 V / 4.1 V / 4.2 V / 4.3 V / 4.4 V / 4.5 V / 4.6 V / 4.7 V / 4.8 V / 4.9 V / 5 V	5 V / 5.5 V / 6 V / 6.5 V / 7 V / 7.5 V / 8 V / 8.5 V / 9 V / 9.5 V / 10 V / 10.5 V / 11 V / 11.5 V / 12 V / 12.5 V / 13 V / 13.5 V / 14 V / 14.5 V / 15 V / 15.5 V / 16 V / 16.5 V / 17 V / 17.5 V / 18 V / 18.5 V / 19 V / 19.5 V / 20 V

DIP Switch 10 (Direct connected)



Short description:
WAGO's voltage signal conditioner converts millivolt signals (at the input) into a standard analog signal at the output.

- Features:**
- PC configuration interface
 - Calibrated measurement range switching
 - Clipping capability for analog signal limitation to output end values
 - 3-way electrical isolation with 2.5 kV test voltage

Notes	
Note	Additional setting options via the WAGO Interface Configuration Software

Technical data	
Configuration	
Configuration options	DIP switch WAGO Interface Configuration Software
Input	
Input signal type	Voltage



Input	
Input signal (voltage)	±100 mV 0 ... 200 mV 0 ... 300 mV 0 ... 400 mV 0 ... 500 mV 0 ... 600 mV 0 ... 700 mV 0 ... 800 mV 0 ... 900 mV 0 ... 1 V
Input resistance (voltage input)	≥ 1 MΩ
Input voltage (max.)	±31.2 VDC
Measurement span (min.)	10 mV

Signal processing	
Step response (typ.)	50 ms

Power supply	
Power supply type	24 VDC
Nominal supply voltage U _S	24 VDC
Supply voltage range	±30 %
Current consumption at nominal supply voltage	≤ 40 mA

Safety and protection	
Protection type	IP20
Test voltage	
Test voltage (input/output/supply)	2.5 kVAC; 50 Hz; 1 min

Connection data	
Connection technology	Push-in CAGE CLAMP®
Solid conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm² / 22 ... 14 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

Output (analog)	
Output signal type	Current Voltage
Output signal (voltage)	0 ... 5 V 1 ... 5 V 0 ... 10 V 2 ... 10 V
Output signal (current)	0 ... 10 mA 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA
Load impedance (voltage output)	≥ 2 kΩ
Load impedance (current output)	≤ 600 Ω

Measurement error	
Transmission error (typ.)	≤ 0.1 % at full measurement span
Temperature coefficient	≤ 0.01 %/K



Material data	
Insulation material (main housing)	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.363 MJ
Weight	36.3 g

Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 95 % (no condensation permissible)
Operating altitude (max.)	2000 m

Standards and specifications	
Conformity marking	CE
EMC immunity to interference	EN 61000-6-2
EMC emission of interference	EN 61000-6-4
Standards/specifications	DNV

Commercial data	
Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	DE
GTIN	4045454665975
Customs tariff number	85437090300

Product classification	
UNSPSC	41113630
eCl@ss 10.0	27-21-01-20
eCl@ss 9.0	27-21-01-20
ETIM 9.0	EC002653
ETIM 8.0	EC002653
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
CAS-No.	1303-86-2 1317-36-8 7439-92-1 75980-60-8 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol Diboron trioxide Lead Lead monoxide Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	49e9c757-c3de-45f5-aa94-fa829ce66621
SCIP notification number (Belgium)	3add6792-d6b4-4a60-b10b-2775d1050079
SCIP notification number (Bulgaria)	a0000eb0-9c45-4d8f-a613-6ba463247146
SCIP notification number (Czech Republic)	845b3bf4-8af5-4eb2-85fe-6b1bffc3a9db
SCIP notification number (Denmark)	fc708c3a-9f06-4678-a073-55db81ddfabb
SCIP notification number (Finland)	0210ffd1-fff4-401b-b2b7-efb00f735dfd



Environmental Product Compliance	
SCIP notification number (France)	a289d34e-7a35-4a49-81d6-c36c8cf5f8a4
SCIP notification number (Germany)	928af8ea-3919-43d6-9131-d135fb0ddd0b
SCIP notification number (Hungary)	9e60857b-8e32-4df9-8f55-10326f32222f
SCIP notification number (Italy)	304a20bf-0ad3-44e3-a7c7-a57f7458854f
SCIP notification number (Netherlands)	e69a77bc-9dc3-4a4d-aaf3-705677644c26
SCIP notification number (Poland)	6361bdca-953e-4872-80fc-01867f4f542f
SCIP notification number (Romania)	d6046b0c-fd20-46ba-b839-4cd262bb8117
SCIP notification number (Sweden)	51812d90-7f3f-4f0b-af26-1ec84c334379

Approvals / Certificates

General approvals

Declarations of conformity and manufacturer's declarations

			Approval	Standard	Certificate Name
			EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
Approval	Standard	Certificate Name			
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081			

Approvals for marine applications			Approvals for hazardous areas		
 			   		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
BV Bureau Veritas S.A.	Rules for class. of Steel Ships	40179_B0	CCC CNEX	CNCA-C23-01	2020312310000210 (Ex ec IIC T4 Gc)
DNV DNV Germany GmbH	DNV-CG-0339, Aug.2021	TAA00001D1	IECEx TUEV Nord Cert GmbH	-	IECEX TUN14.0030X
			UKEx WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX004X
			UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	ANSI/ISA 12.12.01	E198726

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 857-819

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Documentation				
Manual		Bid Text		
WAGO Current and Voltage Signal Conditioners and Power Measurement Modules		857-819	18.07.2019	xml 5.88 KB
		857-819	18.07.2019	docx 18.76 KB
		857-819	18.07.2019	pdf 73.55 KB

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 140.99 KB	
Messumformer und Trennverstärker		pdf 2166.86 KB	

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 857-819	EPLAN Data Portal 857-819
	WSCAD Universe 857-819
	ZUKEN Portal 857-819

1 Compatible Products
1.1 Optional Accessories
1.1.1 Cables and connectors
1.1.1.1 Communication cable



[Item No.: 750-923/000-001](#)
Configuration cable; USB connector;
Length: 5 m

1.1.2 Communication
1.1.2.1 Bluetooth



[Item No.: 750-921](#)
Bluetooth® Adapter



1.1.2.2 Communication cable



Item No.: 750-923
Configuration cable; USB connector;
Length: 2.5 m

1.1.3 Installation

1.1.3.1 Mounting accessories



Item No.: 249-117
Screwless end stop; 10 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



Item No.: 249-197
Screwless end stop; 14 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray



Item No.: 249-116
Screwless end stop; 6 mm wide; for DIN-rail 35 x 15 and 35 x 7.5; gray

1.1.4 Interface module

1.1.4.1 Interface adapters



Item No.: 857-980
Interface adapter; 16-pole; analog

1.1.5 Jumper

1.1.5.1 Jumper



Item No.: 281-482
Jumper; 2-way; insulated; gray



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



1.1.5.1 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

1.1.6 Marking

1.1.6.1 Marker



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

1.1.6.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.7 Power supply

1.1.7.1 Power supply



Item No.: 787-2852
Switched-mode power supply; 1-phase;
24 VDC output voltage; 1 A output current

1.1.8 Terminal blocks

1.1.8.1 Supply module



Item No.: 857-979
Supply and through module

1.1.8.2 Through terminal block



Item No.: 857-979
Supply and through module

1.1.9 Tool

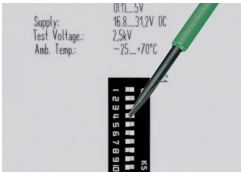
1.1.9.1 Operating tool



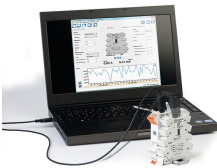
Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a
partially insulated shaft; multicoloured

Installation Notes

Configuring

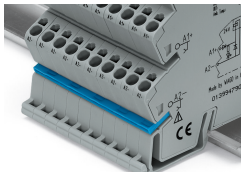


Configuration via DIP switch



Configuration via WAGO Interface Configuration Software

Commoning



Commoning, not discrete wiring – Same
outline allows use of a single in-line, push-
in jumper.

