

Printview: JUMPFLEX® transducer; millivolt transducer; records all mv signals ranging from -100 mv ... +100 mv; Application: recording lambda probes - Item No.: 857-819

WAGO® online catalog / eShop

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Marking

RoHS ✓
Compliant

Business data

Supplier	WAGO
Item no.	857-819
GTIN / EAN	4045454665975
Content	1
Order amount	1
Customer item number	

Notes

*Short description:*The Millivolt Transducer converts input millivolt signals into standard analog signals on the output side.
*Features:*PC configuration interface
Calibrated measurement range switching
Switchable clipping capability limits the standard analog signal to the upper range values
Safe 3-way isolation with 2.5 kV test voltage acc. to EN 61140
Input signal: -100 mV ... +100 mV, 0 mV ... 200 mV to 0 mV ... 1000 mV (in steps of 100)
Output signal: 0 ... 10 mA; 2 ... 10 mA 0 ... 20 mA 4 ... 20 mA 0 ... 5 V; 1 ... 5 V 0 ... 10 V; 2 ... 10 V

Technical data

Miscellaneous

Total number of connection points	8
Total number of potentials	8
Color	light gray
Conformity marking	CE

Technical data	
Configuration	DIP switches, PC configuration software, smartphone app
Input resistance	> 1M
Load impedance	600 (I output) 2 k (U output)
Temperature coefficient	0.01 % /K
Max. input signal	31.2V
Transmission error	0.1 % at max. measuring span
Step response	50ms
Nominal supply voltage US [VDC]	24 [VDC]
Supply voltage range	16.8 V ... 31.2 V
Current consumption at 24 VDC [mA]	40 [mA]
Min. measuring span	10 mV (configurable)
Test voltage (input/output/supply)	2.5 kVAC, 50 Hz, 1 min.
Connection technology (1)	CAGE CLAMP® S
Conductor type (1)	solid
Cross section from (1) [mm²]	0.08 [mm²]
Cross section up to (1) [mm²]	2.5 [mm²]
Cross section from (1) [AWG]	28 [AWG]
Cross section up to (1) [AWG]	14 [AWG]
Conductor type (2)	fine-stranded
Cross section from (2) [mm²]	0.34 [mm²]
Cross section up to (2) [mm²]	2.5 [mm²]
Cross section from (2) [AWG]	22 [AWG]
Cross section up to (2) [AWG]	14 [AWG]
Stripped length from (1) [mm]	9 [mm]
Stripped length up to (1) [mm]	10 [mm]
Stripped length (1) [in]	0.37 [in]
Type of wiring	Front-entry wiring
Weight [g]	50 [g]
Width [mm]	6 [mm]
Width [in]	0.236 [in]
Height [mm]	96 [mm]
Height [in]	3.78 [in]
Length [mm]	94 [mm]
Length [in]	3.701 [in]

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<i>Storage temperature</i>	<i>-40 °C ... +85 °C</i>
<i>Type of mounting</i>	<i>DIN 35 rail</i>
<i>Ambient operating temperature</i>	<i>-25 °C ... +70 °C</i>

Approbation

Item No.	Registration	Registration no.	Voltage [V]	Current [A]	Cross section [mm², AWG]
<i>857-819</i>	<i>DNV</i>	<i>DNV_A-13346</i>			
<i>857-819</i>	<i>GL</i>	<i>44 627 - 07 HH</i>			
<i>857-819</i>	<i>NK</i>	<i>TA12716M</i>			
<i>857-819</i>	<i>PRS</i>	<i>TE/1989/880590/1 3</i>			
<i>857-819</i>	<i>UL</i>	<i>E175199 Sec.4</i>			

Accessories

Accessories

Jumper

Item no.	Description	Pack. unit (Sub Pack)
859-402	Push-in type jumper bar; 2-way; nominal current 18 A; insulated	25
859-402/000-005	Push-in type jumper bar; 2-way; Nominal current 18 A; insulated	25
859-402/000-006	Push-in type jumper bar; 2-way; nominal current 18 A; insulated	25
859-402/000-029	Push-in type jumper bar; 2-way; nominal current 18 A; insulated	25
859-403	Push-in type jumper bar; 3-way; nominal current 18 A; insulated	25
859-403/000-006	Push-in type jumper bar; 3-way; nominal current 18 A; insulated	25
859-403/000-029	Push-in type jumper bar; 3-way; nominal current 18 A; insulated	25
859-404	Push-in type jumper bar; 4-way; nominal current 18 A; insulated	25
859-404/000-006	Push-in type jumper bar; 4-way; nominal current 18 A; insulated	25
859-404/000-029	Push-in type jumper bar; 4-way; nominal current 18 A; insulated	25
859-405	Push-in type jumper bar; 5-way; nominal current 18 A; insulated	25
859-405/000-006	Push-in type jumper bar; 5-way; nominal current 18 A; insulated	25
859-405/000-029	Push-in type jumper bar; 5-way; nominal current 18 A; insulated	25
859-406	Push-in type jumper bar; 6-way; nominal current 18 A; insulated	25
859-406/000-006	Push-in type jumper bar; 6-way; nominal current 18 A; insulated	25
859-406/000-029	Push-in type jumper bar; 6-way; nominal current 18 A; insulated	25
859-407	Push-in type jumper bar; 7-way; nominal current 18 A; insulated	25
859-407/000-006	Push-in type jumper bar; 7-way; nominal current 18 A; insulated	25
859-407/000-029	Push-in type jumper bar; 7-way; nominal current 18 A; insulated	25
859-408	Push-in type jumper bar; 8-way; nominal current 18 A; insulated	25
859-408/000-029	Push-in type jumper bar; 8-way; nominal current 18 A; insulated	25
859-409	Push-in type jumper bar; 9-way; nominal current 18 A; insulated	25
859-409/000-006	Push-in type jumper bar; 9-way; nominal current 18 A; insulated	25
859-409/000-029	Push-in type jumper bar; 9-way; nominal current 18 A; insulated	25
859-410	Push-in type jumper bar; 10-way; nominal current 18 A; insulated	25
859-410/000-006	Push-in type jumper bar; 10-way; nominal current 18 A; insulated	25
859-410/000-029	Push-in type jumper bar; 10-way; nominal current 18 A; insulated	25

Accessories

Marking accessories

Item no.	Description	Pack. unit (Sub Pack)
793-501	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card	5
793-501/000-005	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card	5
793-501/000-006	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card	5
793-501/000-007	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card	5
793-501/000-012	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card	5
793-501/000-017	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card	5
793-501/000-023	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card	5
793-501/000-024	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card	5
793-502	WMB Multi marking system; Horizontal marking; 1 ... 10 (10x); for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card; consecutive numbers each strip	5
793-503	WMB Multi marking system; Horizontal marking; 11 ... 20 (10x); for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card; consecutive numbers each strip	5
793-504	WMB Multi marking system; Horizontal marking; 21 ... 30 (10x); for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card; consecutive numbers each strip	5
793-505	WMB Multi marking system; Horizontal marking; 31 ... 40 (10x); for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card; consecutive numbers each strip	5
793-506	WMB Multi marking system; Horizontal marking; 41 ... 50 (10x); for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card; consecutive numbers each strip	5
793-5501	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; 10 strips with 10 markers per card	5
793-5501/000-002	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; 10 strips with 10 markers per card	5
793-5501/000-005	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; 10 strips with 10 markers per card	5
793-5501/000-006	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; 10 strips with 10 markers per card	5

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Accessories

793-5501/000-007	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; 10 strips with 10 markers per card	5
793-5501/000-012	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; 10 strips with 10 markers per card	5
793-5501/000-017	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; 10 strips with 10 markers per card	5
793-5501/000-023	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; 10 strips with 10 markers per card	5
793-5501/000-024	WMB Multi marking system; plain; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; 10 strips with 10 markers per card	5
793-566	WMB Multi marking system; Horizontal marking; 1 ... 50 (2x); for terminal block width 5 - 17.5 mm; 10 strips with 10 markers per card; consecutive numbers each strip	5

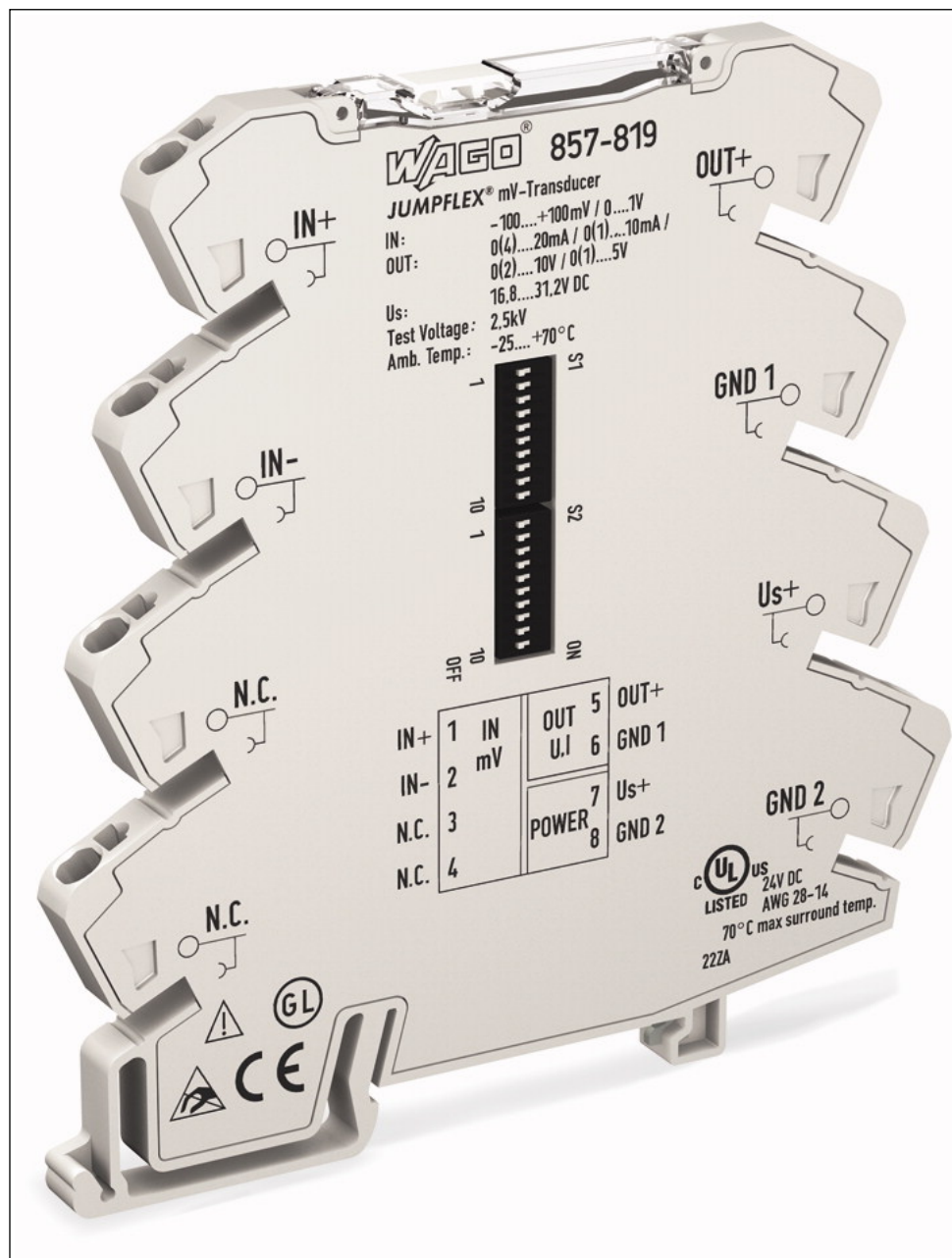
General accessory

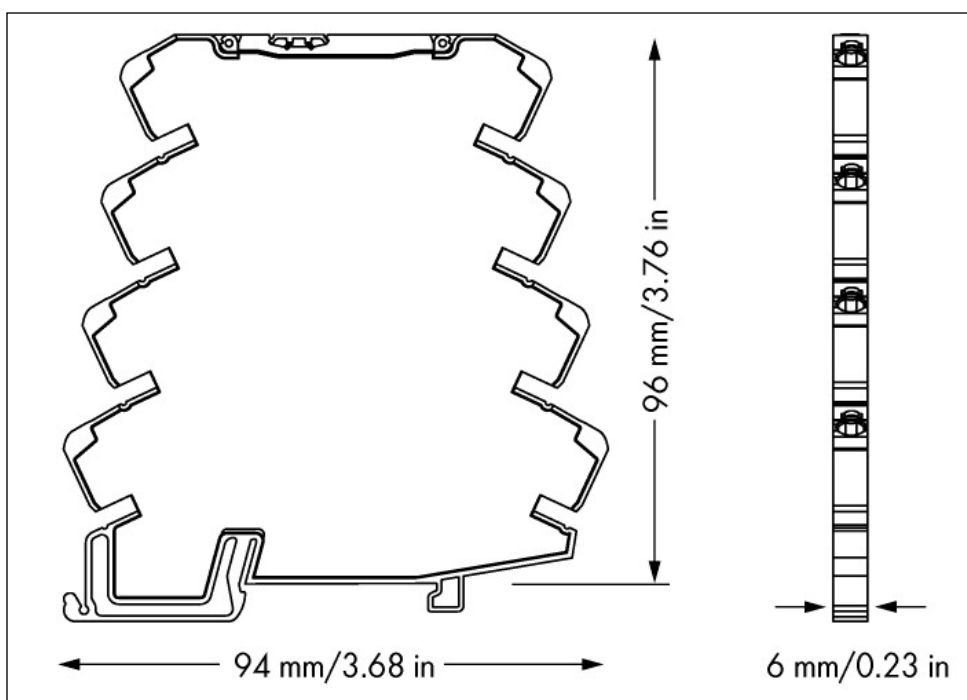
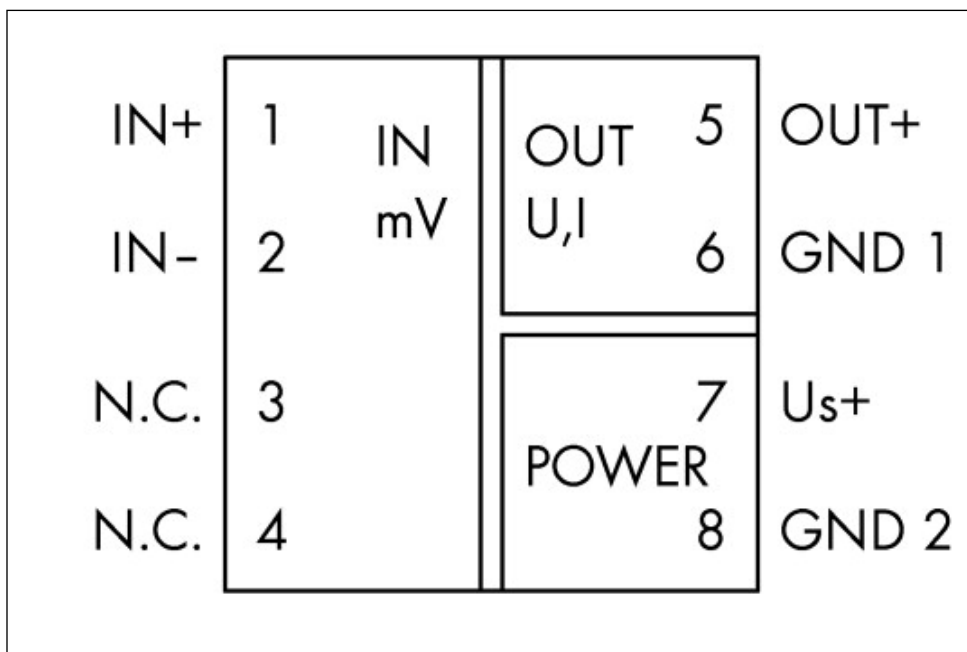
Item no.	Description	Pack. unit (Sub Pack)
210-720	Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm; suitable for 260, 261, 262, 264, 270, 280, 281, 290, 775, 776, 777, 769, 780, 781, 869, 870, 880, 2002, 2003, 2004, 2005 and 2022 Series	1
857-980	JUMPFLEX® adapter; with 16-pole flat cable connector per DIN 41651; analog	1
857-981	JUMPFLEX® adapter; with 14-pole flat cable connector per DIN 41651; High-side switching input	1
857-982	JUMPFLEX® adapter; with 14-pole flat cable connector per DIN 41651; High-side switching output	1
857-986	JUMPFLEX® adapter; with D-subminiature male connector; Input	1

Screwless end stop

Item no.	Description	Pack. unit (Sub Pack)
249-116	Screwless end stop; 6 mm wide	25
249-117	Screwless end stop; 10 mm wide	25

Images & drawings





● = ON

857-819

[illegible]

DIP Switch S2

Output signal					Measuring Range Underflow	Measuring Range Overflow
6	7	8	9	10		
		0 ... 20 mA			Lower limit of output range - 5 % *	Upper limit of output range + 2,5 % *
●		4 ... 20 mA			[0 mA / 1,9 mA / 3,8 mA / 0 V / 0,95 V / 1,9 V]	(10,25 mA / 20,5 mA / 5,125 V / 10,25 V)
	●	0 ... 10 mA			Lower limit of output range	Upper limit of output range + 2,5 %
●	●	2 ... 10 mA	●		[0 mA / 2 mA / 4 mA / 0 V / 1 V / 2 V]	(10,25 mA / 20,5 mA / 5,125 V / 10,25 V)
	●	0 ... 10 V		●	Lower limit of output range	Upper limit of output range
●	●	2 ... 10 V		●	[0 mA / 2 mA / 4 mA / 0 V / 1 V / 2 V]	(10 mA / 20 mA / 5 V / 10 V)
	●	0 ... 5 V		●	Lower limit of output range	Upper limit of output range
●	●	1 ... 5 V	●		[0 mA / 2 mA / 4 mA / 0 V / 1 V / 2 V]	(10 mA / 20 mA / 5 V / 10 V)

*acc. to NAMUR NF 43

Default Settings

All DIP switches are in "OFF" position for delivery.
This is the position used to parameterize the device via PC configuration software.

Input signal	0 ... 100 mV
Output signal	0 ... 20 mA
Measuring range underflow	0 mA
Measuring range overflow	20.5 mA

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Technische Änderungen und Irrtümer vorbehalten.