



Temperature signal conditioner for thermocouples; Current and voltage output signal; Configuration via software; Supply voltage: 24 VDC; 6 mm module width

Item No.: 857-811



Temperature signal conditioner for thermocouples; Current and voltage output signal; Configuration via software;
Supply voltage: 24 VDC; 6 mm module width

Marking

RoHS ✓
Compliant

Business data

Supplier	WAGO
Item no.	857-811
GTIN / EAN	4045454502751
Content	1

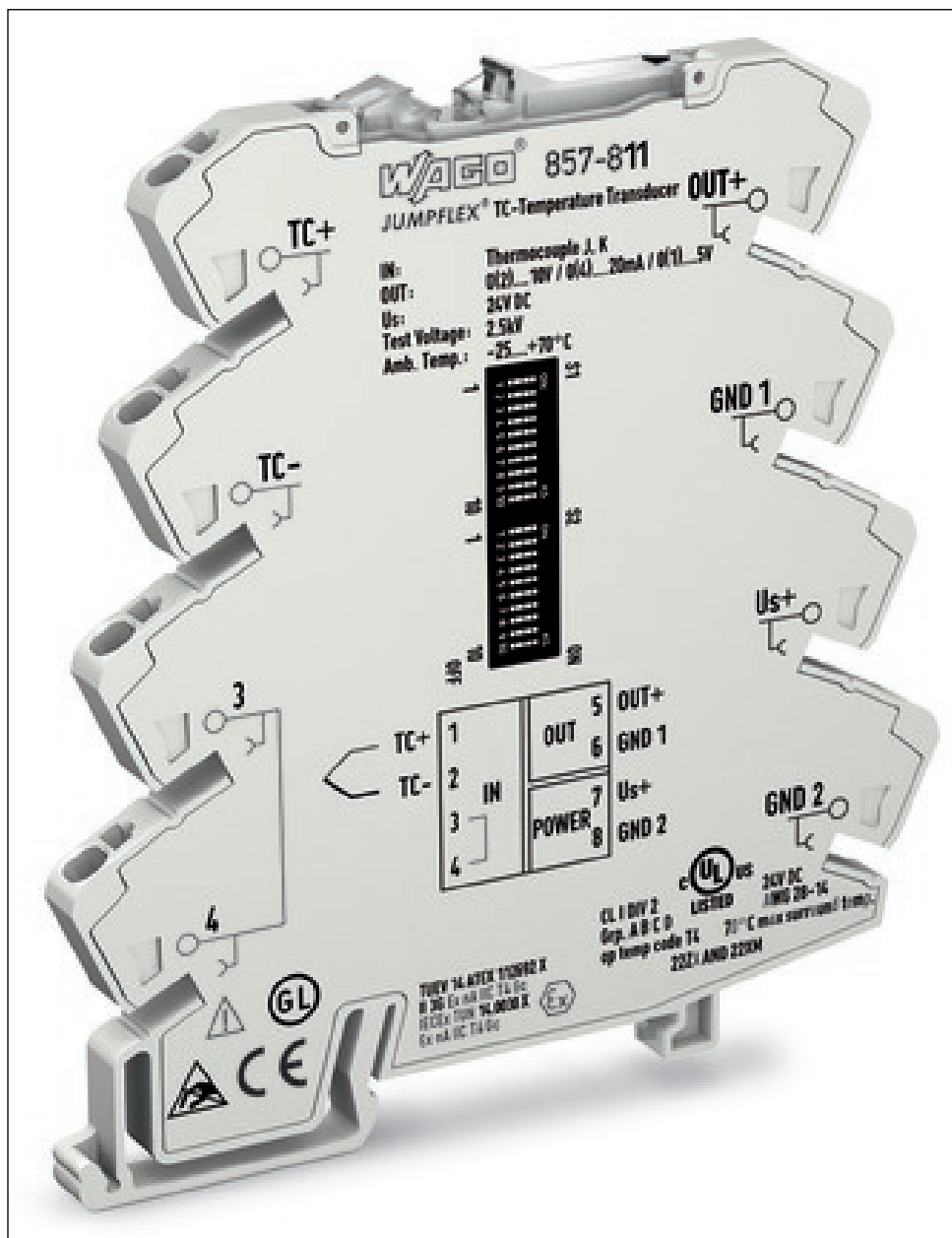
Notes

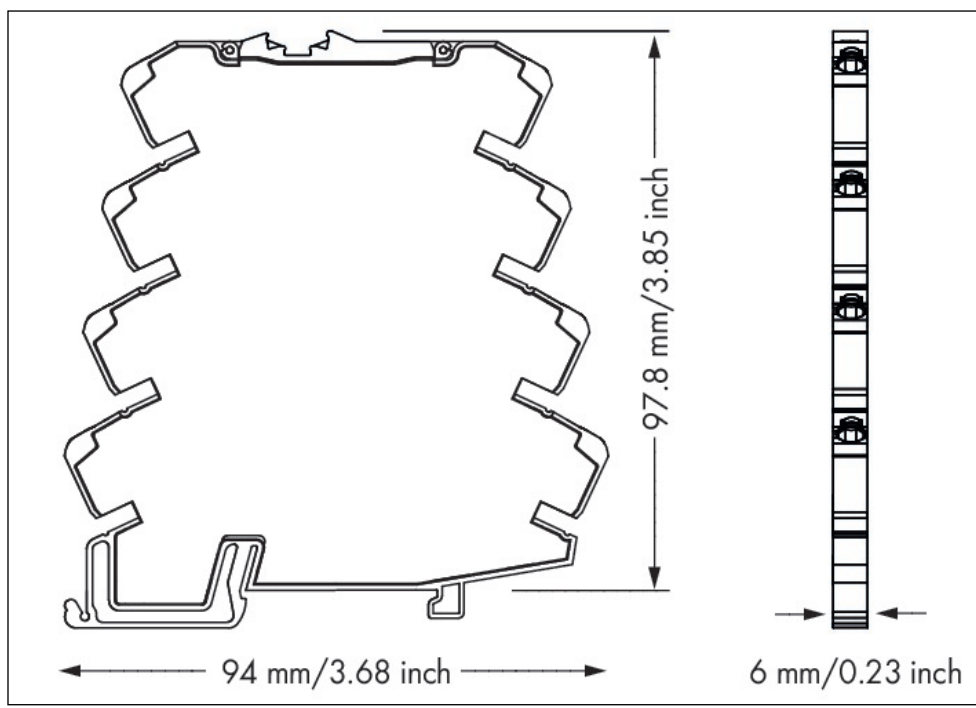
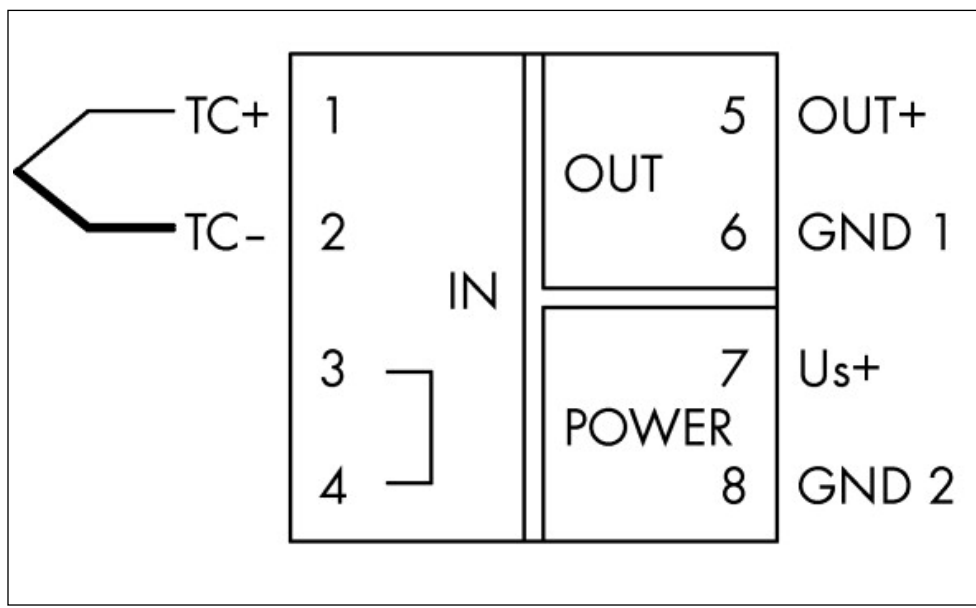
Item description: Short description: This temperature signal conditioner records signals from type J and K (E, R, N, S, T, B, C) thermocouples and converts the temperature signal into a standard analog signal. Features: PC configuration interface For type J and K (E, R, N, S, T, B, C) thermocouples Cold junction compensation (on/off) Switching between measurement ranges is calibrated Detect sensor's wire break Detect measurement range underflow/measurement range overflow Integrate a switchable clipping function to limit the standard analog signal to the upper range values Safe 3-way isolation with 2.5 kV test voltage per EN 61140 Note: (Additional setting options as well as output signal inversion via interface configuration software or interface configuration app) Step response: 60 ms without cold junction compensation/120 ms with cold junction compensation 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*

Printview: Temperature signal conditioner for thermocouples; Current and voltage output signal;
 Configuration via software; Supply voltage: 24 VDC; 6 mm module width - Item No.: 857-811

Technical data	
<i>Miscellaneous</i>	
<i>Connection technology</i>	<i>Push-in CAGE CLAMP®</i>
<i>Solid conductor</i>	<i>0.08 ... 2.5 mm² / 28 ... 14 AWG</i>
<i>Fine-stranded conductor</i>	<i>0.34 ... 2.5 mm² / 22 ... 14 AWG</i>
<i>Strip length</i>	<i>9 ... 10 mm / 0.35 ... 0.39 Inch</i>
<i>Width</i>	<i>6 mm / 0.236 Inch</i>
<i>Height from upper-edge of DIN-35 rail</i>	<i>97.8 mm / 3.85 Inch</i>
<i>Depth</i>	<i>94 mm / 3.701 Inch</i>
<i>Type of mounting</i>	<i>DIN-35 rail</i>
<i>Color</i>	<i>light gray</i>
<i>Fire load [MJ]</i>	<i>0.598 [MJ]</i>
<i>Weight [g]</i>	<i>36 [g]</i>
<i>Ambient temperature (operation)</i>	<i>-25 ... 70 °C</i>
<i>Ambient temperature (storage)</i>	<i>-40 ... 85 °C</i>
<i>Conformity marking</i>	<i>CE</i>
<i>EMC immunity to interference</i>	<i>EN 61000-6-2</i>
<i>EMC emission of interference</i>	<i>EN 61000-6-4</i>
<i>Product Family</i>	<i>JUMPFLEX Signal Conditioners</i>
<i>Main product function</i>	<i>Temperature signal conditioners</i>
<i>Product type</i>	<i>Signal conditioners</i>
<i>Type of power supply</i>	<i>24 VDC</i>
<i>Configuration options</i>	<i>DIP switches</i>
<i>Measured variable</i>	<i>Temperature</i>

Images & drawings





857-811

DIP Switch Adjustability



DIP Switch 81

Cold junction compensation		Sensor type				Output signal		Measuring range underflow	Measuring range overflow	Wire break
1	2	3	4	5	6	7	8			
	on		J					0 ... 20 mA		
•	off	•	K	•				4 ... 20 mA	Lower limit of output range -5 % ²	Upper limit of output range +2.5 % ²
				•				0 ... 10 mA	Lower limit of output range	Upper limit of output range +2.5 %
				•				2 ... 10 mA	Lower limit of output range	Upper limit of output range +5 %
				•				0 ... 10 V	Lower limit of output range	Upper limit of output range +5 %
				•				2 ... 10 V	Lower limit of output range	Upper limit of output range +5 %
				•	•			0 ... 5 V	Lower limit of output range	Upper limit of output range
				•	•			1 ... 5 V	Lower limit of output range	Lower limit of output range

DIP 9 and 10 n.c.

² acc. to NAMUR NE 43

DIP Switch 82

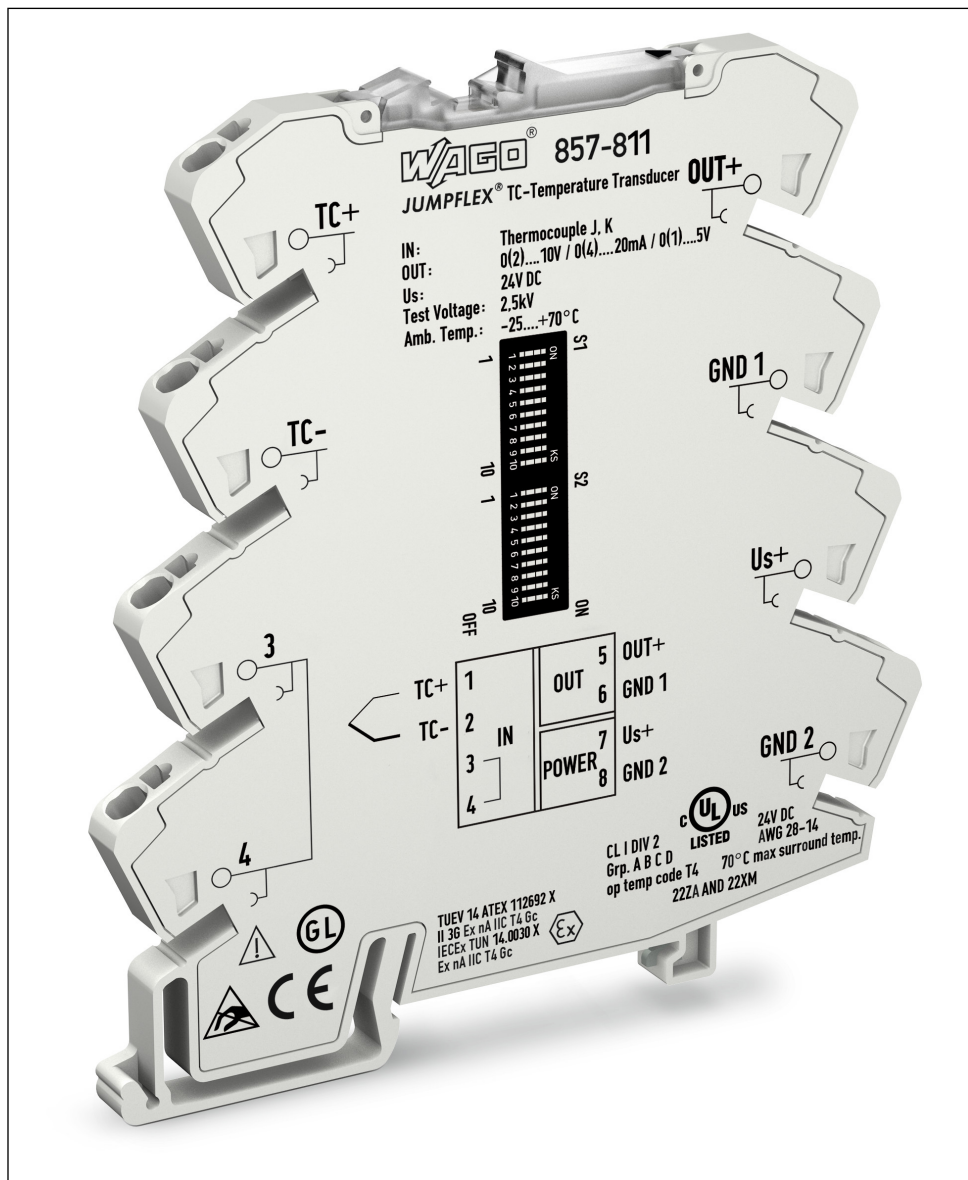
Start temperature										End temperature																																	
1	2	3	4	°C	°F	5	6	7	8	9	10	°C	°F	5	6	7	8	9	10	°C	°F	5	6	7	8	9	10	°C	°F	5	6	7	8	9	10	°C	°F						
•				-200	-328	•						0	32	•								226	437	•								828	1157	•								1028	1877
•				-176	-289	•						10	50	•								280	482	•								860	1202	•								1060	1922
•				-150	-233	•						20	68	•								276	527	•								876	1247	•								1076	1967
•				-125	-193	•						30	86	•								300	572	•								700	1292	•								1100	2012
•				-100	-140	•						40	104	•								326	617	•								736	1367	•								1126	2057
•				-80	-112	•						60	142	•								380	682	•								780	1422	•								1180	2102
•				-60	-76	•						80	176	•								376	707	•								776	1427	•								1176	2147
•				-40	-40	•						100	212	•								400	762	•								800	1472	•								1200	2162
•				-20	-4	•						125	267	•								426	797	•								826	1817	•								1226	2237
•				0	32	•						150	302	•								480	842	•								850	1562	•								1280	2322
•						•						175	347	•								476	887	•								876	1607	•								1276	2327
•						•						200	392	•								500	932	•								900	1662	•								1300	2372
•						•						225	437	•								526	977	•								926	1697	•								1326	2417
•						•						250	482	•								550	1022	•								950	1742	•								1350	2462
•						•						275	547	•								576	1087	•								976	1787	•								1376	2507
•						•						300	592	•								600	1112	•								1000	1832	•								1400	2552

The minimum distance from the start temperature to the end temperature may not fall short of 100K degrees on the Celsius (°C) scale or 212K degrees on the Fahrenheit (°F) scale.

Default Settings

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

Cold junction compensation	on
Thermocouple	Type J
Start temperature	0 °C
End temperature	1000 °C
Output signal	0 ... 20 mA
Measuring range underflow	0 mA
Measuring range overflow	20.5 mA
Wire break	21 mA



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Technische Änderungen und Irrtümer vorbehalten.