



Identification	Type	WTH 6-1848
	Part-No.	751848

Input

Measurement input	J (FeCuNi), K (NiCrNi) according to DIN / IEC 584-1
Galvanic insulation I/O	3-way isolation
Temperature range	J: -50–150 °C / -50–250 °C / -50–350 °C / 0–400 °C / 0–600 °C / 0–800 °C / 0–1000 °C / 0–1200 °C K: -210–105 °C / -50–250 °C / -50–350 °C / 0–400 °C / 0–600 °C / 0–800 °C / 0–1000 °C / 0–1200 °C
Transmission frequency	10 Hz
Input resistance	330 kΩ
Zero /Span	Production comparison

Load Side

	0/10 V	0–20 mA	4–20 mA
Max. load impedance at I-output		400 Ω	400 Ω
Max. load impedance at U-output	>1 kΩ		
Load impedance	55 Ω	–	–
Output current	max. 21 mA		
Output signal	Adjustable via switch		

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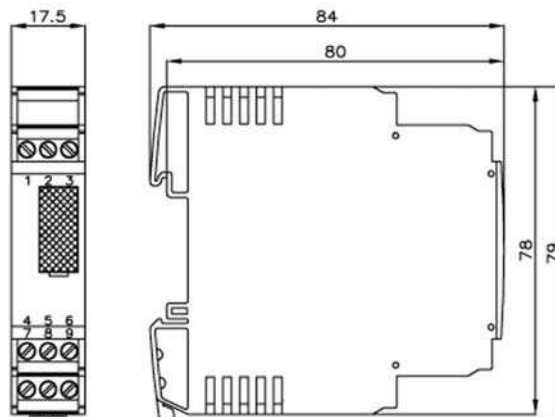
Technical data sheet • Interface Technology

Ripple <5 mV_{eff}

General

Nominal voltage	AC/DC 24–240 V
Operation voltage range	DC: 16.8 – 264 V, AC: 19.2 – 264 V
Rated current	10.0 mA
Status Indication	LED yellow, flashes in the event of wire breakage and output will saturate
Input/output protection	Overvoltage AC/DC 30 V, Output short circuit-proof
Accuracy	0.5 % + 2 K FSR
Linearity error	0.1 % FSR, thermoelectrical potential linear
Rise time (10 - 90%)	30 ms
Build-up time (Accuracy 1%)	60 ms
Temperature coefficient	< 150 ppm / K FSR
Insulation voltage input/output	4.0 kV _{eff}
Housing material	PPE
Field installation	rail TS 35 (EN 50022)
Protection class	IP 20
Installation position	Optional
Termination	Spring terminal 0.14–2.5 mm ²
Operation temperature range	-25 °C – 60 °C
Storage temperature range	-40 °C – 85 °C
Dimensions (w × h × d)	17.5 × 79.0 × 84.0 mm
Weight (kg/piece)	0.070 kg/piece
Standards	EN 60721-3-3; EN 55011; EN 61000-4-2/6; EN 50178
PU	1

Dimensions



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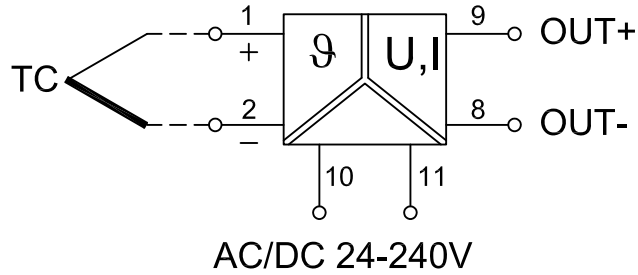
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PIN assignment



Range adjustment

S1			
Range (J)	Pos.	Range (K)	Pos.
-50 – 150°C	0	-210 – 105°C	8
-50 – 250°C	1	-50 – 250°C	9
-50 – 350°C	2	-50 – 350°C	A
0 – 400°C	3	0 – 400°C	B
0 – 600°C	4	0 – 600°C	C
0 – 800°C	5	0 – 800°C	D
0 – 1000°C	6	0 – 1000°C	E
0 – 1200°C	7	0 – 1200°C	F

● → Switch On	S2			
	1	2	3	4
Output				
0-10V	●			
0-20mA		●		
4-20mA			●	

Accessories

Accessories	Color	Article number	Type	PU
Tag holder 7×20 mm	white	760968	BZT-0720	100
Laser printer label 6.35×15.24 mm (sheet with 528 labels)		681033	LEB-0615	1

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