

Technical data sheet - Interface Technology

Microcompact current/analogue converter



Identification	Type Part-No.	WAA 7-1541 751541
Description	Input: AC/DC 0 – 5 A Output: 0 – 10 V / 0 – 20 mA / 4 – 20 mA - adjustable Insulation: 2.5 kV, 3-way isolation	
Input	Input signal AC/DC 0–5 A, ± 5 A Input variable Single analogue signal Galvanic isolation I/O 3-way isolation Zero /Span Production comparison Line frequency 15 – 400 Hz Input resistance typ. 0.02 Ω	
Output	Output signal adjustable via DIP switch S1 Max. load impedance at I-output 400 Ω Output current max. 21 mA Residual ripple <5 mV _{eff}	
Operating data		

07.10.2019 – Subject to technical modification

Part-No. 751541

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Accuracy	0.5 % FSR @ 23 °C
Linearity error	0.1 % FSR @ 23 °C
Build-up time (Accuracy 1%)	150 ms
Temperature coefficient	<150 ppm / K FSR

General

Rated voltage U_N	DC 24 V
Operation voltage range	DC 16.8–30 V
Status indication	LED yellow
Insulation voltage input / output	2.5 kV _{eff}
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	light grey
Mounting	DIN rail mountable TS35 (EN 60715)
Protection class	IP20
Installation position	any
Connection type	Spring terminal
Operation temperature range	-25 °C ... +60 °C
Storage temperature range	-40 °C ... +85 °C
Dimensions (w × h × d)	6.2 × 90.0 × 115.5 mm
Weight	0.055 kg/piece
PU	1 piece
Approvals	cULus Cl.1 Div2, Gr. A, B, C, D, T4A

Failure Rate Prediction (MTBF)

Standards	Electronic components – Reliability – Reference conditions for failure rates and stress models for conversion: EN/IEC 61709 Failure Rates of Components – Expected values: SN 29500
Failure rate at +45 °C	639 fit
Failure rate at +45 °C	1564896 h 1 fit equals one failure per 10 ⁹ component hours The indicated temperature is the mean component ambient temperature.
Comments	The results are valid under following conditions: Automotive environment or industrial areas without extreme dust levels and harmful substances Continuous operation 8760 h per year

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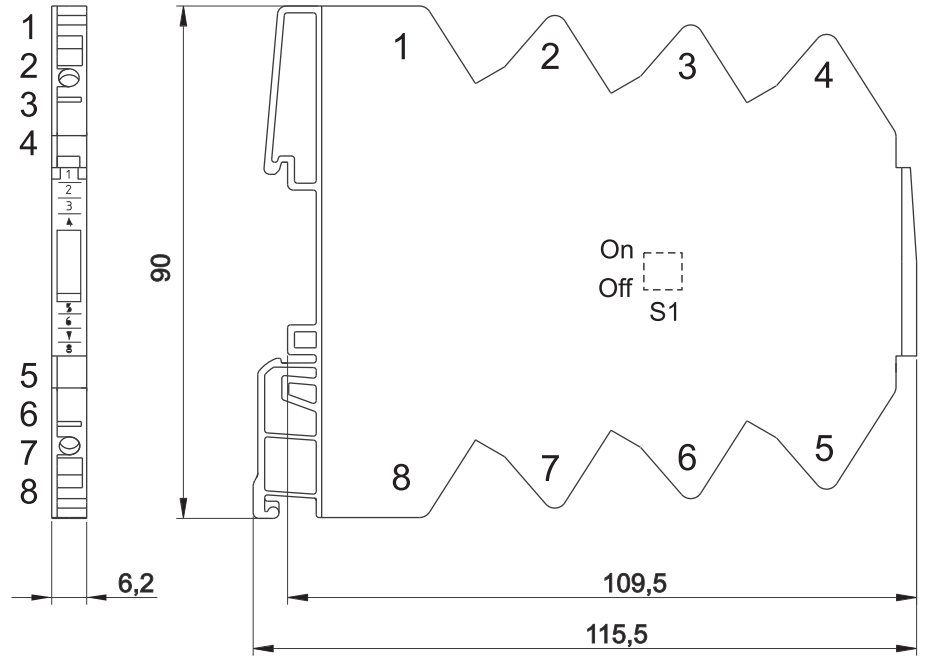
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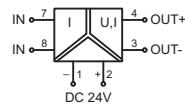
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Dimensions



PIN assignment



Range adjustment

Input	Output	S1			
		1	2	3	4
0-5A	0-10V				
0-5A	0-20mA	●			
0-5A	4-20mA	●			

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