

Technical data sheet

Interface Technology · Microcompact current/analogue converter

Input: AC/DC 0 – 5 A

Output: 0 – 10 V / 0 – 20 mA / 4 – 20 mA - adjustable

Insulation: 2.5 kV, 3-way isolation



Identification

Type	WAA 7-1541
Part No.	751541

Product version

Hardware revision	1.2
Software version	1.0
Datasheet version	01

Input

Input signal	AC/DC 0–5 A, ± 5 A
Input variable	Single analog signal
Galvanic isolation I/O	3-way isolation
Zero /Span	Production comparison
Frequency range	15 Hz – 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

Accuracy	0.5 % FSR @ 23 °C
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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
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)
Degree of protection	IP20
Installation position	Any
Connection type	Spring terminal
Dimensions (w × h × d)	6.2 mm × 90.0 mm × 115.5 mm
Weight/unit	0.055 kg
PU (units)	1

General ambient conditions

Operation temperature range	-25 °C ... +60 °C
Storage temperature range	-40 °C ... +85 °C

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.

Certifications/Standards

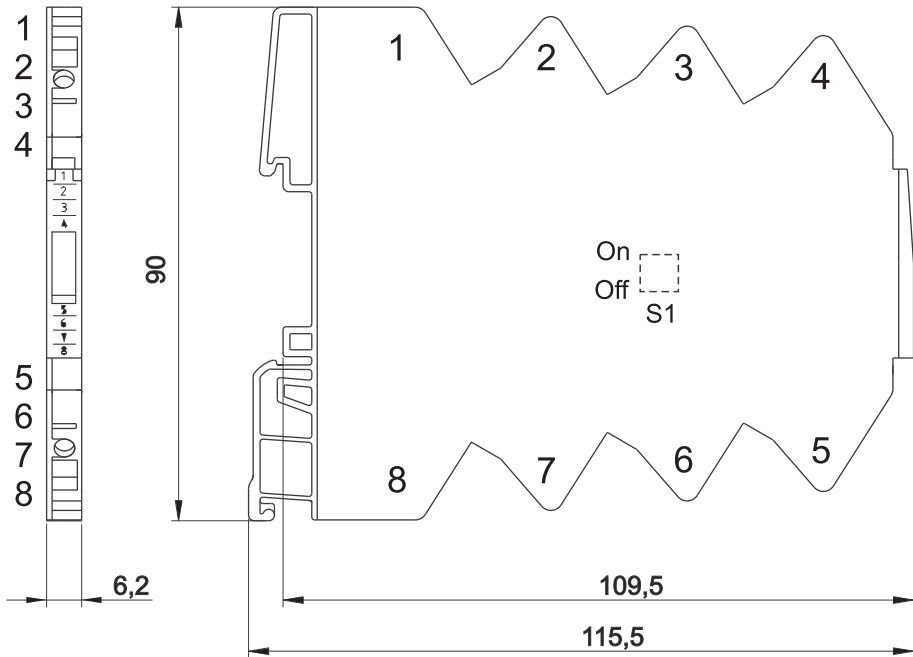
Conformity	CE UKCA
Certifications	cULus Cl.1 Div2, Gr. A, B, C, D, T4A

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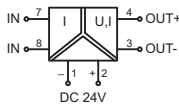
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Standards	2011/65/EU (ROHS)
	2014/30/EU (EMC directive)
	2014/35/EU (Low Voltage Directive)
	EN 61000-6-2:2005
	EN 61000-6-4:2007+A1:2011
	EN 60947-1:2007+A1:2011+A2:2014
	EN 60947-5-1:2017

Dimensions



PIN assignment



Range adjustment

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