

Technical data sheet

Interface Technology · LCIS analogue/analogue converter

Input: 0–20 mA

Output: 0–10 V

Insulation: 2.5 kV, 3-way isolation



Identification

Type	LCIS-WAA-0533-62-S
Part No.	750533.0000

Product version

Hardware revision	1.0
Software version	1.1
Datasheet version	02

Input

Input signal	0–20 mA
Galvanic isolation I/O	3-way isolation
Zero /Span	Production comparison
Input resistance	100 Ω

Output

Output signal	0 – 10 V
Output voltage limit	min 0 V max 10.8 V for all output ranges with nominal upper limit 10 V
Min. load impedance at U-output	2 kΩ
Load deviation	at U-output max. 5 mV @ 2 kΩ
Output current	max. 5 mA @ 0–10 V
Residual ripple	<20 mV _{eff}

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Operating data

Accuracy	0.1 % FSR @ 23 °C
Linearity error	0.05 % FSR
Rise time (10-90%)	6 ms
Build-up time (Accuracy 1%)	17 ms
Temperature coefficient	<150 ppm / K FSR
Critical frequency	30 Hz @ 3 dB

General

Rated voltage U_N	AC/DC 24 V
Current Consumption	22 mA
Status indication	LED green
Input/output protection	Overvoltage, current input with PTC fuse, short circuit-proof output
Insulation voltage input / output	2.5 kV _{eff}
Housing material	PA 6.6 (UL 94 V-0, NFF I2, F2)
Color of the housing	RAL 7012 basalt grey
Mounting	DIN rail mountable TS35 (EN 60715)
Degree of protection	IP20
Installation position	Any
Connection type	Screwed terminal single wire 0.25 mm ² – 2.5 mm ² / AWG 24–14 fine stranded wire with ferrule 0.25 mm ² – 1.5 mm ² / AWG 24–16
Strip length	6 mm
Dimensions (w × h × d)	6.2 mm × 93.0 mm × 73.0 mm
Weight/unit	0.029 kg
PU (units)	1

General ambient conditions

Operation temperature range	-25 °C ... +60 °C
Storage temperature range	-40 °C ... +80 °C
Relative air humidity	20 – 90 % RH, not condensing
Vibration resistance	0.7 g acc. to EN 60068-2-6

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	504 fit
Failure rate at +45 °C	1983891 h
	1 fit equals one failure per 10 ⁹ component hours
	The indicated temperature is the mean component ambient temperature.

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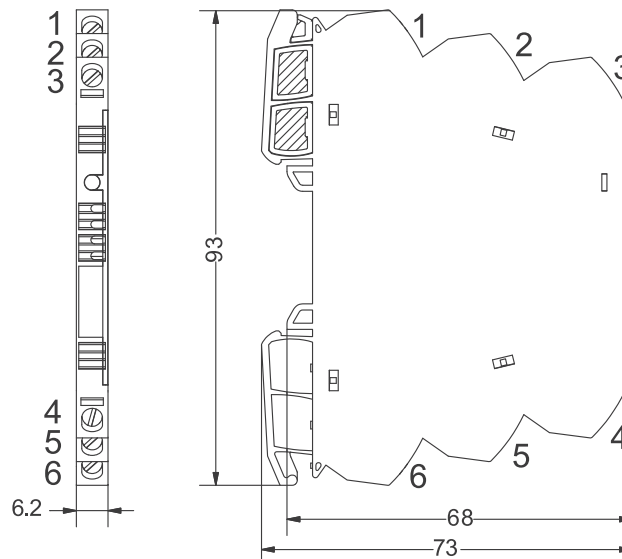
Comments

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

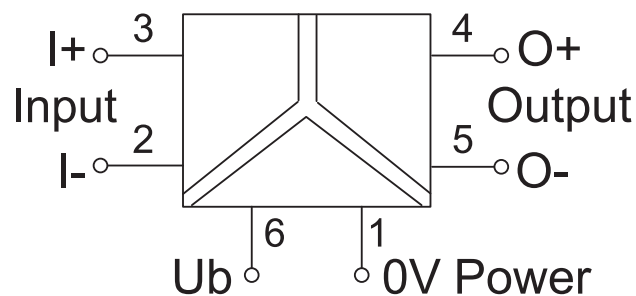
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E135145) DNV (TAA000024Y)
Standards	EN 60947-1 EN 60947-5-1 EN 61000-6-2 EN 61000-6-3 UL 508 DNV-CG-0339

Dimensions



PIN assignment



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Use

