

Technical data sheet - Interface Technology

LCIS analogue/analogue converter



Identification	Type Part-No.	LCIS-WAA-0530-62-S 750530.0000
Description	Input: 0–10 V Output: 0–10 V / 0–20 mA / 4–20 mA Insulation: 2.5 kV, 3-way isolation	
Input	Input signal 0–10 V Galvanic isolation I/O 3-way isolation Step response (10–90%) 6 ms Zero /Span Production comparison Input resistance >330 kΩ	
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 Output current limit min. 0 mA for all output ranges with nominal lower limit 0 mA min. 3.6 mA or all output ranges 4 – 20 mA max. 21.6 mA for all output ranges with nominal upper limit 20 mA Min. load impedance at U-output >2 kΩ Load deviation at U-output max. 5 mV @ 2 kΩ	

16.08.2019 – Subject to technical modification

Part-No. 750530.0000

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Residual ripple <20 mV_{eff}

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
Operation voltage range AC 19.2–26.4 V / DC 18.0–31.2 V
Status indication LED green
Input/output protection Overvoltage, current input with PTC fuse, short circuit-proof output
Rise time (10 - 90%) 6 ms
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)
Protection class IP20
Installation position any
Connection type Screwed terminal
single wire
0.25 mm²–2.5 mm² / AWG 20–14
fine stranded wire with ferrule
0.25 mm²–1.5 mm² / AWG 20–16
Operation temperature range -25 °C ... +60 °C
Storage temperature range -40 °C ... +80 °C
Dimensions (w × h × d) 6.2 × 93.0 × 73.0 mm
Weight 0.029 kg/piece
PU 1 piece
Approvals cULus (E135145)
DNV GL
Standards EN 60947-5-1

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

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Failure rate at +45 °C

1983891 h

1 fit equals one failure per 10⁹ component hours

The indicated temperature is the mean component ambient temperature.

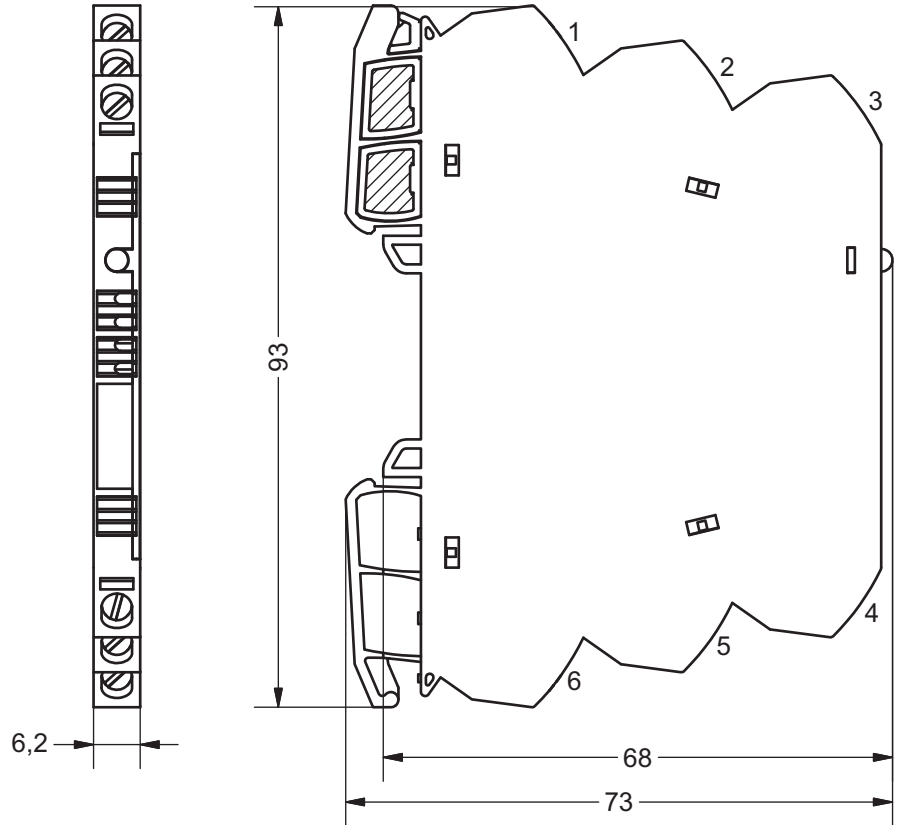
Comments

The results are valid under following conditions:

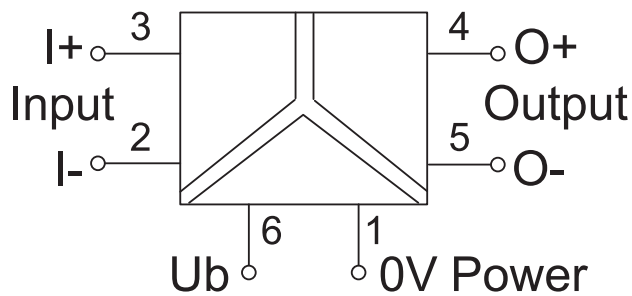
Automotive environment or industrial areas without extreme dust levels and harmful substances

Continuous operation 8760 h per year

Dimensions



PIN assignment



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