

# Technical data sheet - Interface Technology

LCIS analogue/analogue converter



<b>Identification</b>	Type Part-No.	LCIS-WAA-0538-62-S 750538.0000
<b>Description</b>	Input: 4–20 mA Output: 0–10 V / 0–20 mA / 4–20 mA Insulation: 2.5 kV, 3-way isolation	
<b>Input</b>	Input signal 4–20 mA Galvanic isolation I/O 3-way isolation Step response (10–90%) 6 ms Zero /Span Production comparison Input resistance 100 Ω	
<b>Output</b>	Output signal 4–20 mA 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 Max. load impedance at I-output 500 Ω Residual ripple <20 mV <sub>eff</sub>	

16.08.2019 – Subject to technical modification

Part-No. 750538.0000

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## Operating data

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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

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## General

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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 <sub>eff</sub>
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 mm <sup>2</sup> –2.5 mm <sup>2</sup> / AWG 20–14 fine stranded wire with ferrule 0.25 mm <sup>2</sup> –1.5 mm <sup>2</sup> / 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

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## Failure Rate Prediction (MTBF)

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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

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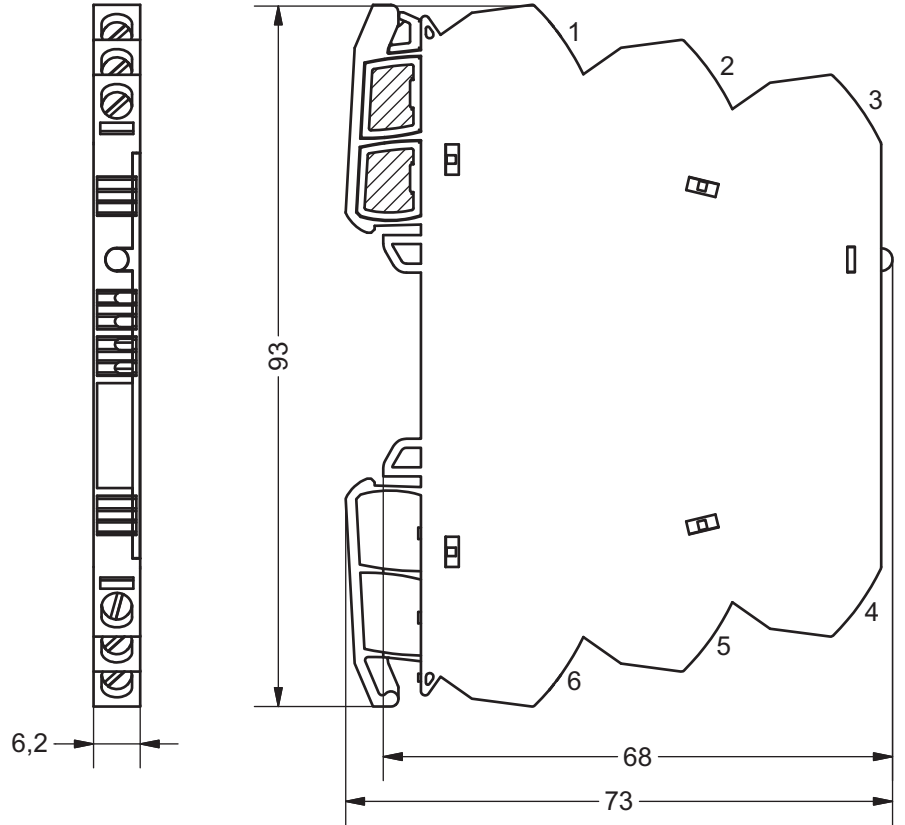
SYSTEMATIC TECHNOLOGY

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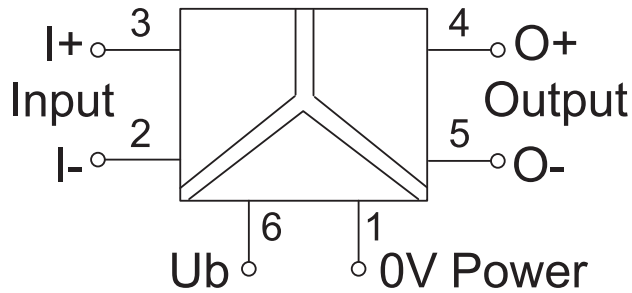
**Comments**

1 fit equals one failure per  $10^9$  component hours  
 The indicated temperature is the mean component ambient temperature.  
 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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