

Technical data sheet - Interface Technology

LCIS analogue/analogue converter, passive



Identification	Type Part-No.	LCIS-P1K-0528-62-S 750528.0000
Description	Input: 4–20 mA Output: 4–20 mA Insulation: 1.5 kV, 2-way isolation, passive converter	
Input	Input signal 4–20 mA Input variable Single analog signal Galvanic isolation I/O 2-way isolation Input overload capability max. 35 mA	
Output	Output signal 4–20 mA Max. load impedance at I-output 1000 Ω (R_B) Residual ripple <5 mV _{eff} (load impedance 100 Ω)	
Operating data	Accuracy 0.1 % FSR @ 23 °C Build-up time (Accuracy 1%) 6 ms (for working resistance 500 Ω and 20 mA)	

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General

Rated voltage U_N	passive
Input/output protection	Suppressor diode (33 V)
Burden error	<0.06 % from measured value / 100 Ω working resistance
Temperature drift /K	<150 ppm / K FSR
Temperature drift (working resistance >600R)	<100 ppm / K FSR
Temperature drift (working resistance >600R)	<150 ppm / K FSR
Insulation voltage input / output	1.5 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 mm ² –2.5 mm ² / AWG 20–14 fine stranded wire with ferrule 0.25 mm ² –1.5 mm ² / 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 × 71.0 mm
Weight	0.030 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	127 fit
Failure rate at +45 °C	7892161 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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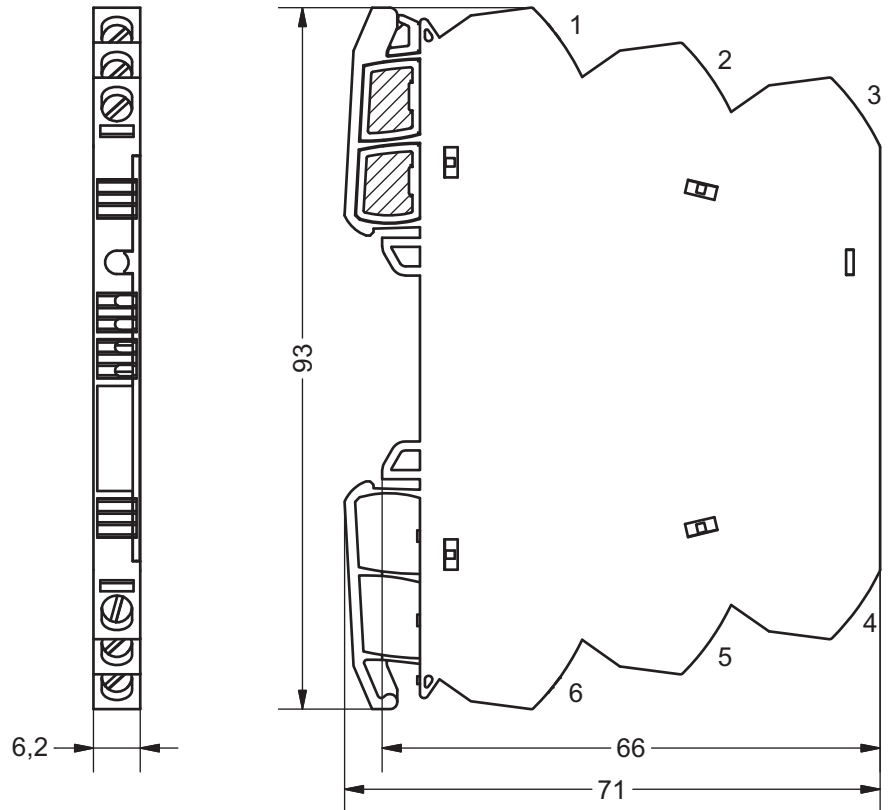
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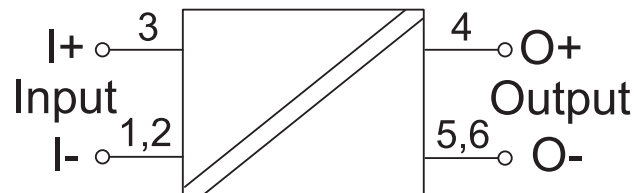
Comments

When connected this passive isolator has a non-reactive transmission, so that the current in the input circuit is not interrupted for an output interruption.

Dimensions



PIN assignment



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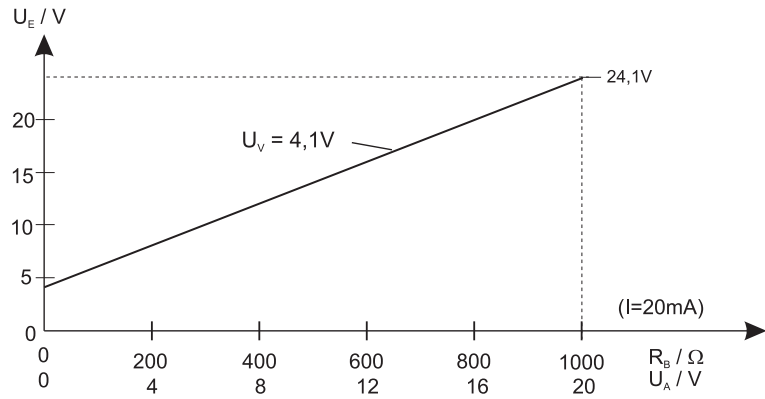
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Action chart



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