

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) | |

15.10.2019 – Subject to technical modification

Part-No. 750528.0000

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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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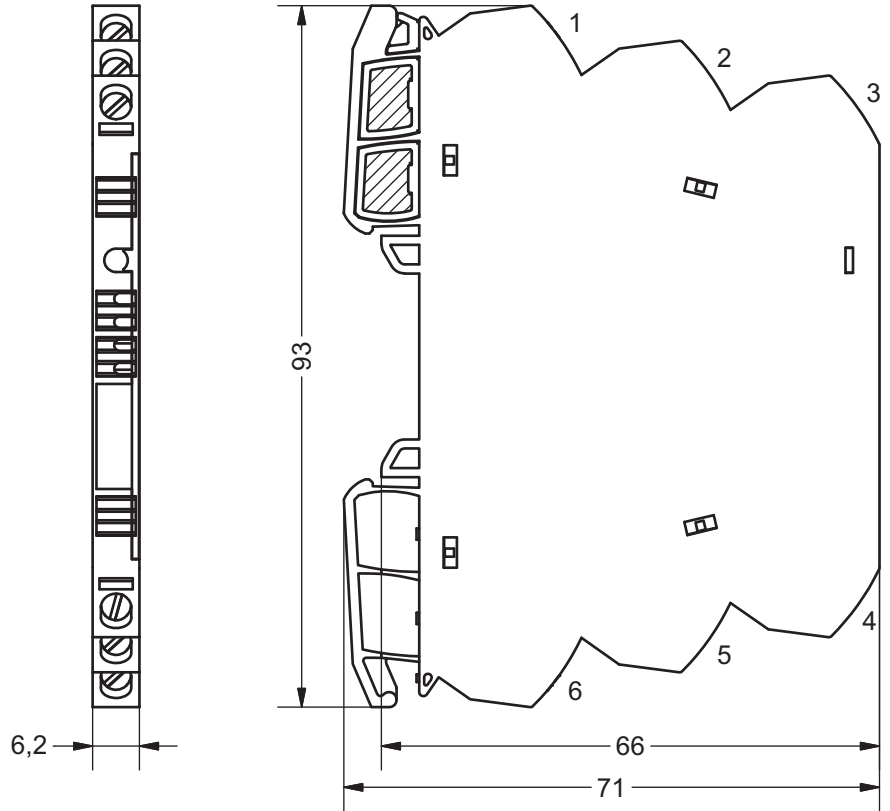
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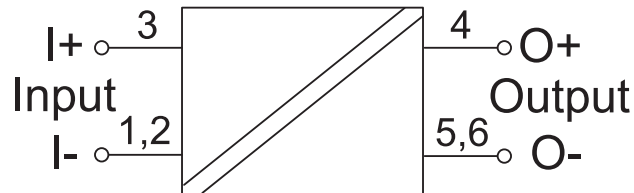
Comments

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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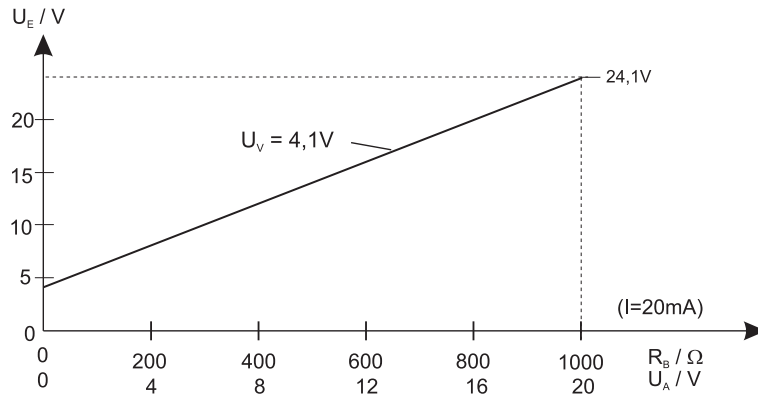
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Action chart



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