

Technical data sheet

Interface Technology · Microcompact analog/limit value switch

Input: ± 30 V, ± 50 mA, ± 5 A adjustable – adjustable limit value switch

Output: Semiconductor NO contact

Insulation: 2.5 kV, 2-way isolation



Identification

Type	LCON ALS FDT 806211
Part No.	751360

Product version

Hardware revision	1.2
Software version	1.9
Datasheet version	03

Input

Input variable	Analogue signals
Measurement input	+30/-30 V, +50/-50 mA, DC +5 A/-5 A adjustable via software FDT/DTM, connection via micro USB
Galvanic isolation I/O	2-way isolation
Delay ON/OFF	2 ms–350 ms (adjustable by means of filter stage 1-5, default: filter stage 4 = 80 ms)
Parameterisation	Software FDT/DTM
Zero /Span	Freely adjustable
Input resistance	>800 k Ω @ +30/-30 V, <30 Ω @ +50/-50 mA, 10 m Ω @ DC +5 A/-5 A

Output

Output signal	+30/-30 V, +50/-50 mA, DC +5 A/-5 A, adjustable via software FDT / DTM, connection via USB service cable
Contact type	K1,K2: Semi-conductor, N/O contact
Max. switching voltage	DC 30 V
Max. switching current	DC 100 mA, not short circuit protected

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22.07.2025 • Subject to technical modification

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Status display output	LED yellow K1 and LED yellow K2
Operating mode	Limit value, window, alarm output / additionally adjustable: Hysteresis, input / output delay
Parameterisation	Software FDT/DTM

Operating data

Accuracy	0.1 % FSR @ +30/-30 V, +50/-50 mA 0.5 % FSR @ +5 A/-5 A
Linearity error	±0.05 % FSR @ +30/-30 V, +50/-50 mA ±0,1 % FSR @ +5 A/-5 A

General

Rated voltage U_N	DC 24 V
Rated current	Approx. 12 mA
Status indication	LED green, yellow (K1, K2), red (error)
Input/output protection	Overvoltage DC 30 V
Temperature error	<100 ppm/K FSR
Data storage	Flash
Insulation voltage input / output	2.5 kV _{eff}
Resolution	16-bit
Configuration	Software: FDT / DTM
Housing material	PA 6.6 (UL 94 V-0)
Color of the housing	Light grey
Mounting	DIN rail mountable TS35 (EN 60715)
Degree of protection	IP20
Installation position	Any
Connection type	Spring terminal 0.14 mm ² – 1.5 mm ²
Dimensions (w × h × d)	6.2 mm × 90.0 mm × 115.5 mm
Weight/unit	0.05 kg
PU (units)	1

General ambient conditions

Operation temperature range	-40 °C ... +70 °C
Storage temperature range	-40 °C ... +85 °C
Relative air humidity	10 % – 95 %, without condensation
Vibration resistance	4 g acc. to EN 60068-2-6
Shock resistance	15 g acc. EN 60068-2-27

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	435 fit
Failure rate at +45 °C	2298502 h

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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.

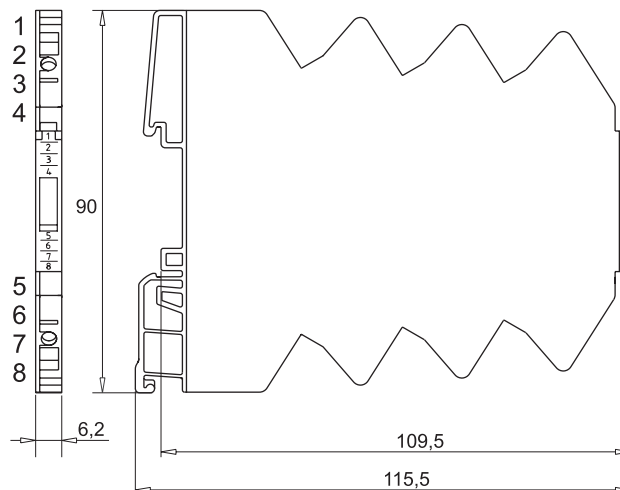
Certifications/Standards

Conformity	CE UKCA
Certifications	cULus (E135145) cULus (E319134) use in Class I, Div. 2, Hazardous Locations
Standards	EN 60947-1 EN 60947-5-1 UL 508 UL 121201 DNVGL-CG-0339 Temperature Class D – not certified Humidity Class B – not certified Vibration Class B – not certified EMC Class A – not certified Enclosure Class A – not certified

Notes and Comments

Note	For the parameterization you need the USB service cable, LCON ZB USB, part number 750894 and the software Lütze HART-DTM and PACTware. The current versions can be found in the download area of the respective product page on the LÜTZE website.
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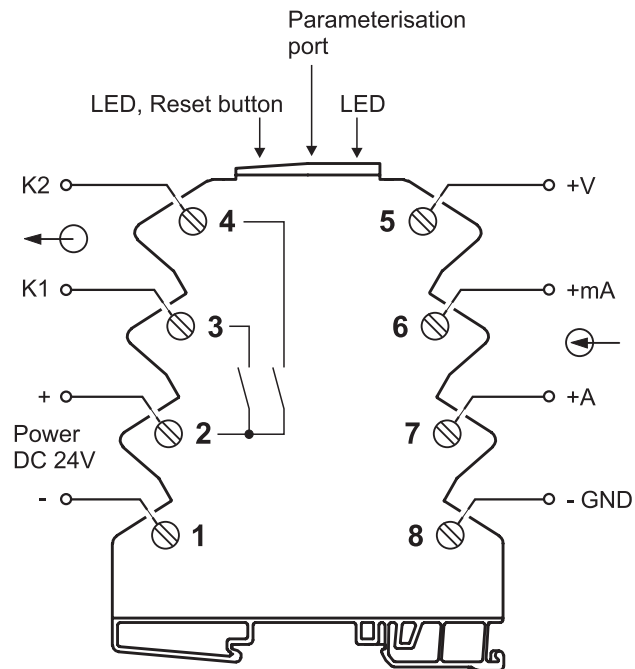
Dimensions



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PIN assignment



PIN assignment

