

Technical data sheet

Interface Technology · Microcompact analog/limit value switch

Input/output: 0–10 V, 0–20 mA, 4–20 mA, 2–10 mA, 0–5 V, 1–5 V, 2–10 V adjustable

Output: switching transistor DC 30 V/100 mA adjustable (LiveZero)

Insulation: 2.5 kV, 4-way isolation



Identification

Type LCON AALS DFDT 806211
Part No. [751322](#)

Product version

Hardware revision 1.3
Software version 1.2
Datasheet version 03

Input

Input variable Analogue signals
Measurement input 0–10 V, 0–5 V, 1–5 V, 2–10 V, 0–20 mA, 4–20 mA, 2–10 mA adjustable via software FDT/DTM, connection via micro USB
Galvanic isolation I/O 4-way isolation
Delay ON/OFF 2 ms–350 ms (adjustable by means of filter stage 1–5, default: filter stage 4 = 80 ms)
Step response (10–90%) 4 ms–500 ms (adjustable by means of filter stage 1–5, default: filter stage 4 = 80 ms)
Parameterisation Software FDT/DTM
DIP switch
Zero /Span Freely adjustable
Input resistance >500 kΩ @ 0–10 V, 0–5 V, 1–5 V, 2–10 V, <100 Ω @ 0–20 mA, 4–20 mA, 2–10 mA

Output

Output signal 0–10 V, 0–5 V, 1–5 V, 2–10 V, 0–20 mA, 4–20 mA, 2–10 mA, adjustable via software FDT/DTM, connection via micro USB

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SYSTEMATIC TECHNOLOGY

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Contact type	Switching transistor Not short-circuit proof
Max. switching voltage	DC 30 V
Max. switching current	DC 100 mA
Max. load impedance at I-output	400 Ω @ 0–20 mA, 4–20 mA, 2–10 mA
Min. load impedance at U-output	2 k Ω @ 0–10 V, 0–5 V, 1–5 V, 2–10 V
Limitation for exceeding measurement range	Yes, switchable
Max. modulation range/output signal/output current	10.5 V @ 0–10 V, 0–5 V, 1–5 V, 2–10 V 21 mA @ 0–20 mA, 4–20 mA, 2–10 mA
Status display output	LED yellow
Operating mode	Limit value, timeframe, tendency+, tendency-, tendency+/-, inversion, error memory
LiveZero	Can be activated via switch and FDT/DTM
Residual ripple	<20 mV _{eff}
Parameterisation	Software FDT/DTM DIP switch

Operating data

Accuracy	0.1 % FSR @ 23 °C
Linearity error	±0.1 % FSR
Critical frequency	100 Hz (filter off), 5 Hz (filter on)

General

Rated voltage U _N	DC 24 V
Rated current	13 mA
Status indication	LED green/red
Input/output protection	Overvoltage, current input with PTC fuse, short circuit-proof output
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 × 115.0 mm
Weight/unit	0.05 kg
PU (units)	1

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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	598 fit
Failure rate at +45 °C	1671386 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.

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

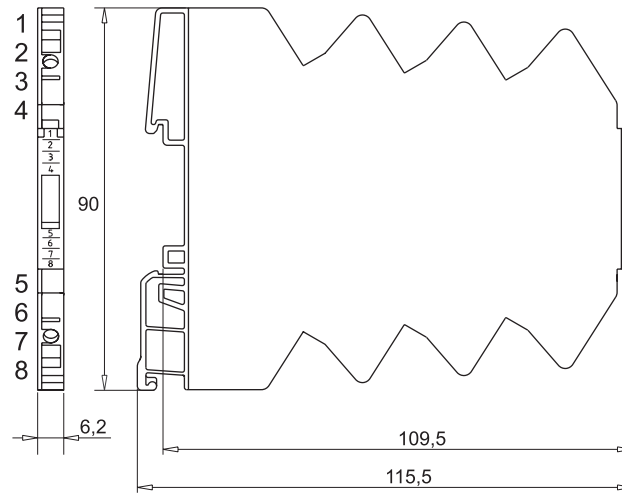
Notes and Comments

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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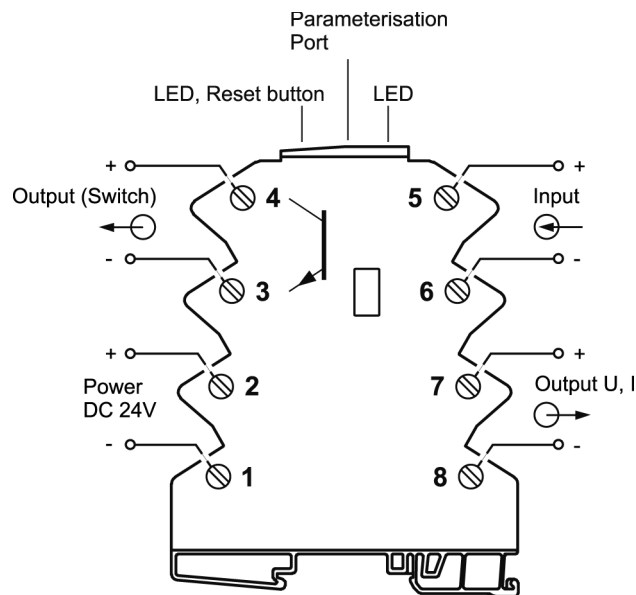
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Dimensions



PIN assignment



Range adjustment

S1 ● → Switch On												
Range	1	2	3		4	5		6		7		8
0 – 10V	●				●							
0 – 20mA		●				●						
4 – 20mA	●	●			●	●						
2 – 10mA			●		Output							
0 – 5V	●		●									
1 – 5V		●	●									
2 – 10V	●	●	●									
Input												
Live Zero Off												
Live Zero On								●				
Filter Off												
Filter On									●			
Output Limitation Off												
Output Limitation On												●

S1 1-8 off: FDT/DTM
See instruction leaflet
for details

Circuit diagram

