

Technical data sheet

Interface Technology · Microcompact analog/analog splitter

Input: 0–10 V, 0–20 mA, 4–20 mA adjustable

Output: 2 × 0–10 V, 0–20 mA, 4–20 mA

Insulation: 2.5 kV, 4-way isolation



Identification

Type	LCON AASP D 806211
Part No.	751321

Product version

Datasheet version	02
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Input

Input variable	Analogue signals
Measurement input	0–10 V, 0–20 mA, 4–20 mA adjustable via switch
Galvanic isolation I/O	4-way isolation
Step response (10–90%)	4 ms–500 ms (adjustable by means of filter stage 1–5, default: filter stage 4 = 80 ms)
Parameterisation	DIP switch
Zero /Span	Production comparison
Input resistance	>500 kΩ @ 0–10 V, <100 Ω @ 0–20 mA, <100 Ω @ 4–20 mA

Output

Output signal	0–10 V, 0–20 mA, 4–20 mA
Max. load impedance at I-output	400 Ω @ 0–20 mA, 4–20 mA
Min. load impedance at U-output	2 kΩ @ 0–10 V
Limitation for exceeding measurement range	yes, switchable
Max. modulation range/output signal/output current	10.5 V @ 0–10 V 21 mA @ 0–20 mA, 4–20 mA
Residual ripple	<20 mV _{eff}
Parameterisation	DIP switch

Operating data

Accuracy	0.1 % FSR @ 23 °C
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SYSTEMATIC TECHNOLOGY

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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	<150 ppm/K FSR
Data storage	Flash
Insulation voltage input / output	2.5 kV _{eff}
Resolution	16-bit
Configuration	Switch
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	663 fit
Failure rate at +45 °C	1509179 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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Approvals/Standards

Conformity	CE UKCA
Approvals	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

Equipment/Spare parts

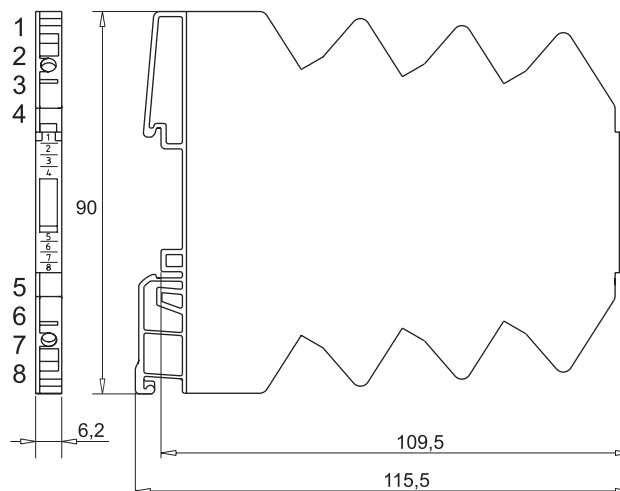
Accessories

Jumper comb 6 A (VE 10)
2-pin: 762802 (red), 762803 (white), 762804 (**blue**)
3-pin: 762805 (red), 762806 (white), 762807 (**blue**)
4-pin: 762812 (red), 762813 (white), 762814 (**blue**)
8-pin: 762822 (red), 762823 (white), 762824 (**blue**)
16-pin: 762832 (red), 762833 (white), 762834 (**blue**)
Marker holder 4×11 mm white, Part-No. 681313, PU: 100 units
Laser label 4.23×11 mm (sheet with 1056 labels), Part-No. 681034, PU:
1 unit

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.

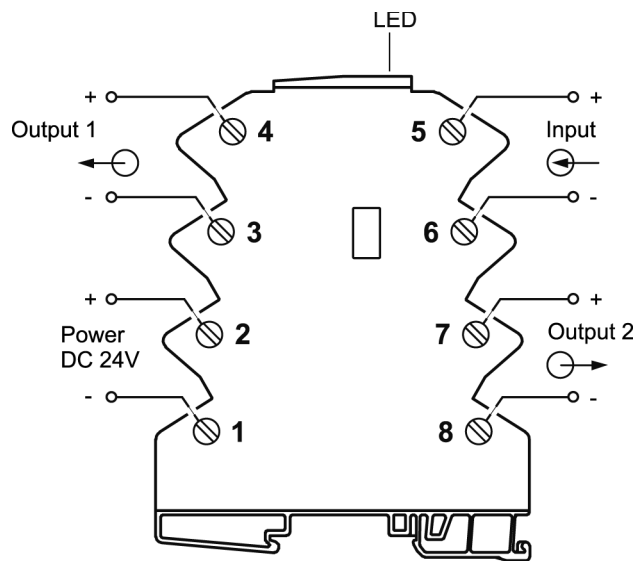
Dimensions



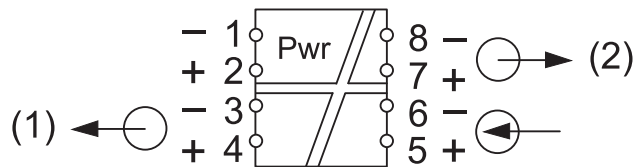
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PIN assignment



PIN assignment



Range adjustment

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

See instruction leaflet for details