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

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}

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Parameterisation	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	<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 mm² – 1.5 mm²
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

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

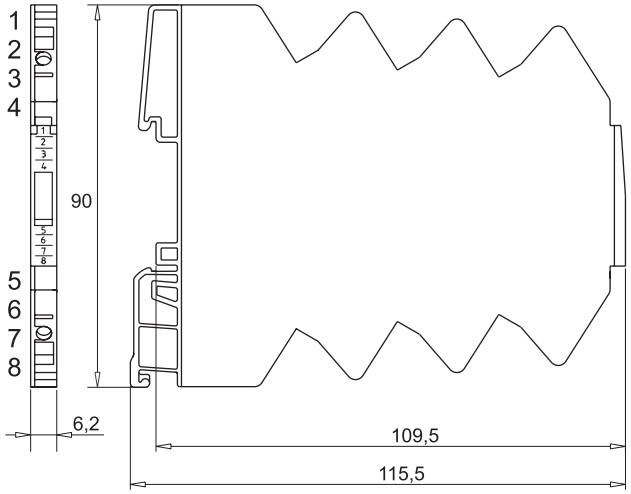
Equipment/Spare parts

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

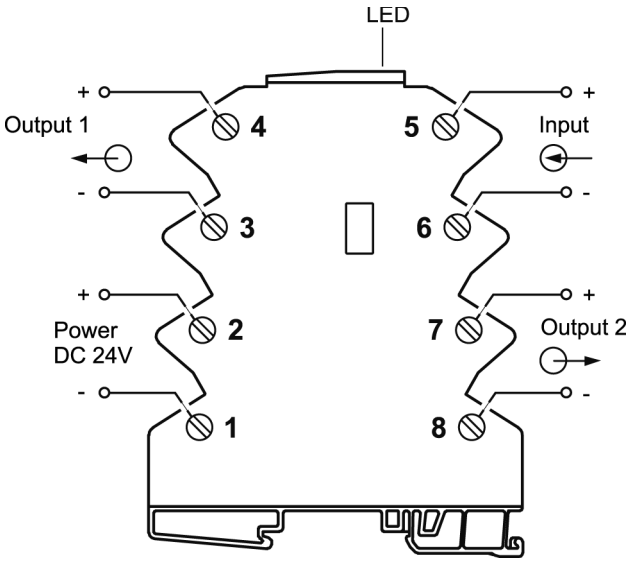
Notes and Comments

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.

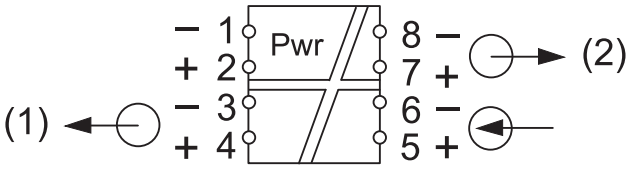
Dimensions



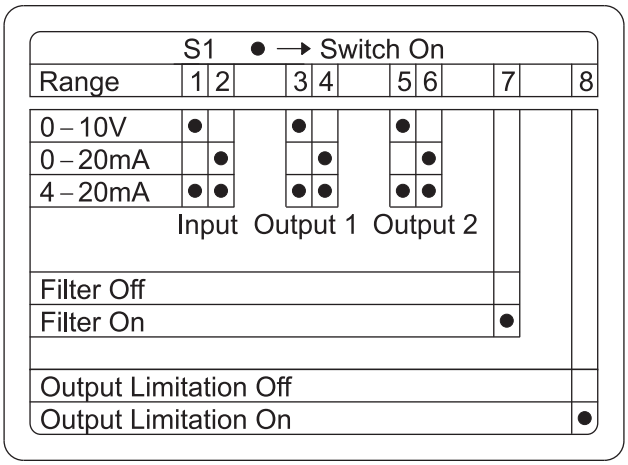
PIN assignment



PIN assignment



Range adjustment



See instruction leaflet for details