

Interface Technology · Microcompact analog/limit value switch

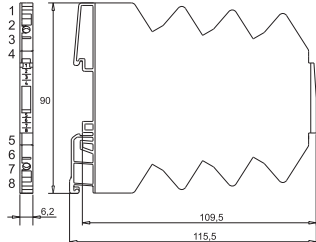
Input: ±30 V, ±50 mA, ±5 A adjustable – adjustable limit value switch

Output: Semiconductor NO contact

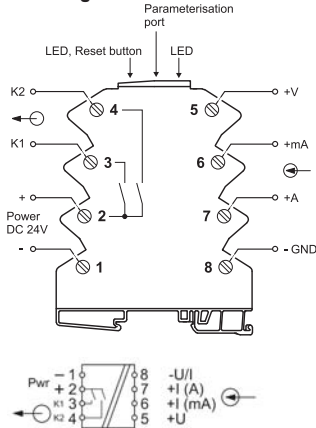
Insulation: 2.5 kV, 2-way isolation



Dimensions



PIN assignment



Description	Part-No.	Type	PU	
Screw terminal				
Rated voltage U_N	DC 24 V	750360 R*	LCON ALS FDT 806210	1
Spring terminal				
Rated voltage U_N	DC 24 V	751360 S*	LCON ALS FDT 806211	1

Input	
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
Step response (10–90%)	4 ms – 750 ms (adjustable by means of filter stage 1–5, default: filter stage 4 = 200 ms)
Input resistance	>800 kΩ @ +30/-30 V, <30 Ω @ +50/-50 mA, 10 mΩ @ DC +5 A/-5 A
Zero /Span	freely adjustable

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

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
Operation voltage range	16.8–30 V
Rated current	approx. 12 mA
Status indication	LED green, yellow (K1, K2), red (error)
Input/output protection	Overvoltage DC 30 V
Connection type	Screw terminal 0.14 mm ² – 1.5 mm ² Spring terminal 0.14 mm ² – 1.5 mm ²
Resolution	16-bit
Temperature compensation internally	–
Configuration	Software: FDT / DTM
Temperature error	<100 ppm/K FSR
Data storage	Flash
Insulation voltage input / output	2.5 kV _{eff}
Housing material	PA 6.6 (UL 94 V-0)
Color of the housing	light grey
Mounting	DIN rail mountable TS35 (EN 60715)
Protection class	IP20
Installation position	any
Operation temperature range	-40 °C ... +70 °C
Storage temperature range	-40 °C ... +85 °C
Dimensions (w × h × d)	6.2 × 90.0 × 115.5 mm
Weight	0.050 kg/piece
Approvals	cULus (E135145), CI.1 Div2, Gr. A, B, C, D, T4A, 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	435 fit
Failure rate at +45 °C	2298502 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

Comments
 NOTE: The device can be configured using the DIP switches on the side or using the accessory LCON ZB service cable (Item no. 750894).