



<b>Identification</b>	Type	LCON TLS FDT 806210
	Part-No.	750370
<b>Description</b>	Input: PT, thermocouple, potentiometer – adjustable temperature converter Output: Semiconductor NO contact Insulation: 2.5 kV, 2-way isolation	
<b>Input</b>		
Input variable	PT100 PT1000 Potentiometer Type B Type C Type E Type J Type K Type N Type R Type S Type T	
Measurement input	PT100, PT1000, potentiometer 0–100 kΩ, Thermal elements: Type B, C, E, J, K, N, R, S, T Customer-specific via support points, polynomial	
Galvanic isolation I/O	2-way isolation	

25.08.2017 – Subject to technical modification

Part-No. 750370

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## Technical data sheet · Interface Technology

Step response (10–90%)	TE: 10 – 750 ms, PT: 5 – 750 ms (adjustable by means of filter stage 1–5, default: 200 ms – filter stage 4)
Temperature range	PT, potentiometer, resistance: -220 ... 850 °C depending on type Thermal elements: -210 ... 2310 °C depending on type
Parameterisation	Software FDT/DTM DIP switch
Input resistance	Thermocouples: 1 MΩ
Sensor current	PT, potentiometer, resistance: 0.2/0.6 mA depending on type
Circuit	PT - 2, 3, 4-wire, for 2-wire with offset correction, no external bridges necessary, autom. detection

### Output

Output signal	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
Status display output	LED yellow K1 and LED yellow K2, not short circuit protected
Operating mode	Limit value, window, alarm output / additionally adjustable: Hysteresis, input / output delay
Parameterisation	Software FDT/DTM DIP switch

### Operating data

Accuracy	PT, potentiometer, resistance: 10 K, set measuring range (K) + 0.2 % FSR Thermocoupling: 10 K, set measuring range (K) + 0.4 % FSR
Linearity error	±0.1 % FSR

### General

Rated voltage	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
Temperature error	<100 ppm/K
Data storage	Flash
Insulation voltage input / output	AC 2.5 kV <sub>eff</sub>
Resolution	16-bit
Temperaturcompensation intern	Thermal elements: type ±1 K , max. ±2 K
Configuration	Software: FDT / DTM
Housing material	PA 6.6 (UL 94 V-0)
Colour of the housing	light grey
Mounting	DIN rail mountable TS35 (EN 60715)

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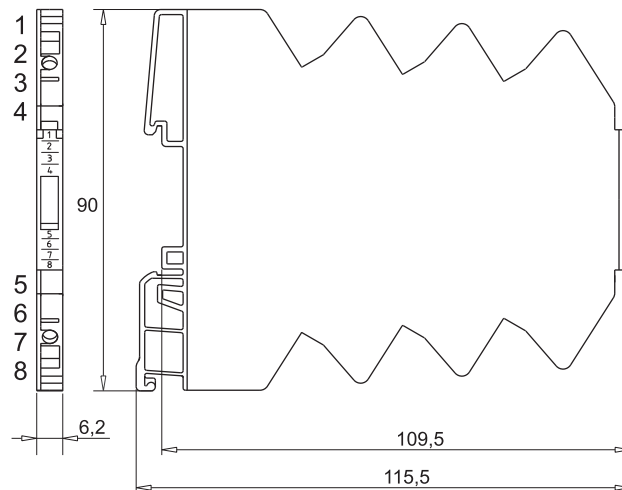


SYSTEMATIC TECHNOLOGY

## Technical data sheet · Interface Technology

Protection class	IP20
Installation position	any
Connection device	Screw terminal 0.14 mm <sup>2</sup> – 1.5 mm <sup>2</sup>
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
PU	1 piece
Approvals	cULus (E135145) Cl.1 Div2, Gr. A, B, C, D, T4A GL
Standards	EN 60947-5-1

### Dimensions



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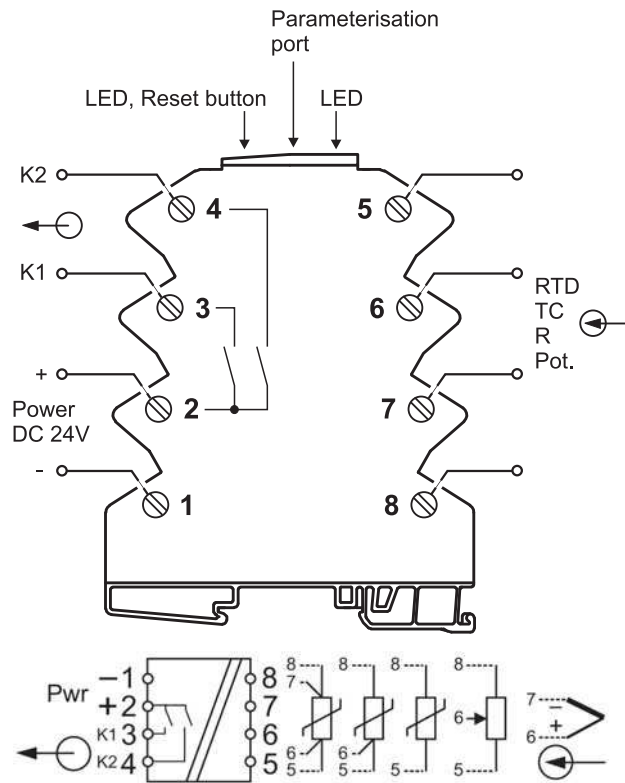
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**PIN assignment**



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