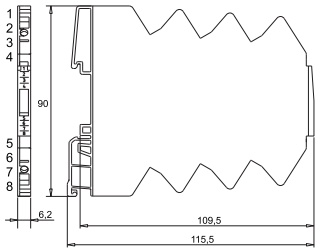
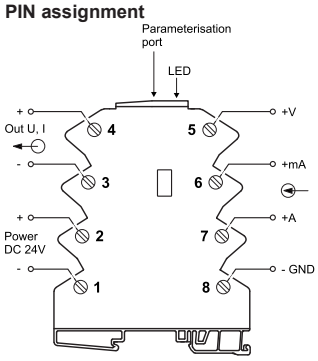
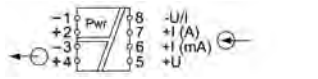
Input: ±30 V, ±50 mA, ±DC 5 A adjustable
Output: 0–20 mA / 4–20 mA / 0–10 V / -10–10 V / 2–10 V / 0–5 V / 1–5 V
Insulation: 2.5 kV, 3-way isolation

Dimensions



PIN assignment





Range adjustment

S1 ● → Switch On						S1 ● → Switch On					
Range*	1	2	3	4	5	Range*	1	2	3	4	5
0 – 50mV	●					0 – 10mA					●
0 – 100mV		●				0 – 20mA	●				●
0 – 200mV	●	●				0 – 50mA		●			●
0 – 500mV			●			4 – 20mA	●	●			●
0 – 1V	●		●			0 – 0.5A			●		●
0 – 2V		●	●			0 – 1A	●		●		●
0 – 5V	●	●	●			0 – 2A		●	●		●
0 – 10V				●		0 – 5A	●	●	●		●
0 – 20V	●			●		±1V				●	●
0 – 30V		●		●		±5V	●			●	●
1 – 5V	●	●		●		±10V		●		●	●
2 – 10V			●	●		±5mA	●	●		●	●
0 – 1mA	●		●	●		±20mA			●	●	●
0 – 2mA		●	●	●		±2A	●		●	●	●
0 – 5mA	●	●	●	●		±5A		●	●	●	●

S1 1-8 off: FDT/DTM

*See instruction leaflet

Output	6	7	8
0 – 20mA	●		
4 – 20mA		●	
0 – 10V	●	●	
±10V			●
2 – 10V	●		●
0 – 5V		●	●
1 – 5V	●	●	●

Description		Part-No.	Type	PU
Screw terminal				
Nominal voltage	DC 24 V	750320	LCON AA DFDT 806210	1
Spring terminal				
Nominal voltage	DC 24 V	751320	LCON AA DFDT 806211	1

Input	**+30/-30V**	**+50/-50mA**	**DC +5A/-5A**
Measurement input	+30/-30 V, +50/-50 mA, DC +5 A/-5 A, adjustable via switch and software FDT/DTM, connection via micro USB		
Galvanic isolation I/O	3-way isolation		
Step response (10–90%)	1.5 ms – 750 ms (adjustable by means of filter stage 1–5, default: filter stage 4 = 200 ms)		
Transmission frequency	-		
Input characteristic impedance	> 800 kΩ	30 Ω	10 mΩ
Zero /Span	freely adjustable		

Output	**0 – 10 V**	**-10 – +10 V**	**0 – 20 mA**	**4 – 20 mA**
Output signal	adjustable via switch and software FDT/DTM, connection via USB service cable			
Max. load impedance at I-output	-		700 Ω	
Min. load impedance at U-output	>2 kΩ		-	
Load deviation	-			
Limitation for exceeding measure-ment range	10.25 V		20.5 mA	
max. Output signal	10.5 V		21 mA	

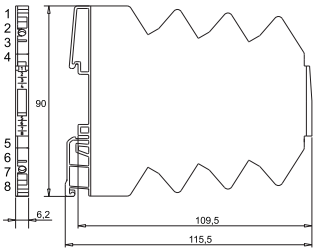
General	**+30/-30V**	**+50/-50mA**	**+5A/-5A**
Nominal voltage	DC 24 V		
Operation voltage range	16.8–30 V		
Rated current	approx. 18 mA		
Status Indication	LED green, red (error)		
Input/output protection	Overvoltage DC 30 V, Output short circuit-proof		
Accuracy	0.1 % FSR		0.5 % FSR
Linearity error	± 0.05 % FSR		± 0.1 % FSR
Termination	Screw-/spring terminal: 0.14–1.5 mm^2		
Resolution	16-bit		
Temperaturcompensation intern	–		
Configuration	Switch and software: FDT / DTM		
Temperature error	<100 ppm FSR		
Data storage	Flash		
Insulation voltage input/output	2.5 kV_{eff}		
Housing material	PA 6.6 (UL 94 V-0)		
Field installation	rail TS 35 (EN 50022)		
Protection class	IP 20		
Installation postition	Optional		
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 (kg/piece)	0.050		
Approvals	cULus, Class I, Div. 2, Groups A,B,C,D T4		

Accessories	**Colour**	**2-pole**	**3-pole**	**4-pole**	**8-pole**	**16-pole**	**PU**
6 A jumper comb	red	762802	762805	762812	762822	762832	10
6 A jumper comb	white	762803	762806	762813	762823	762833	10
6 A jumper comb	blue	762804	762807	762814	762824	762834	10

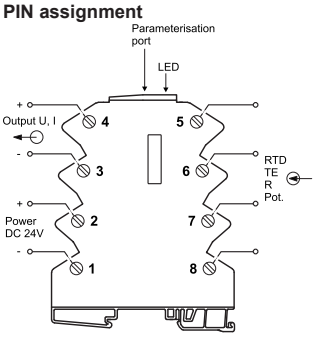
Accessories	**Article number**	**Type**	**PU**
USB service cable	750894	LCON ZB USB	1
Label holder 4×11mm white	681313	BZT-0411	100

Input: PT, thermocouple, potentiometer – adjustable temperature converter
Output: 0–20 mA / 4–20 mA / 0–10 V / -10–10 V / 2–10 V / 0–5 V / 1–5 V
Insulation: 2.5 kV, 3-way isolation

Dimensions



PIN assignment



Range adjustment

Range*	S1				S2						
Start	7	8	1	2	End	3	4	5	6	7	8
-200°C	●				0°C	●					
-150°C	●	●			50°C		●	●			
-100°C	●		●		100°C	●	●		●		
-50°C		●		●	150°C	●		●	●		
0°C	●	●	●	●	200°C	●	●	●	●		
					250°C	●					●
Sensor*	S1	1	2	3	300°C	●	●				●
Pt100		●			350°C	●		●			●
Pt1000			●		400°C	●	●	●			●
TE J		●	●		450°C	●			●		●
TE K				●	500°C	●	●		●		●
Pot. %		●	●	●	550°C	●		●	●		●
					600°C	●	●	●	●		●
Output*	S1	4	5	6	650°C	●					●
0 – 20mA		●			700°C	●	●				●
4 – 20mA			●		750°C	●		●			●
0 – 10V		●	●		800°C	●	●	●			●
±10V				●	850°C	●			●		●
					900°C	●	●		●		●
					950°C	●		●	●		●
					1000°C	●	●	●	●		●
					1050°C	●				●	●
					1100°C	●	●			●	●
					1150°C	●		●		●	●
					1200°C	●	●	●		●	●
					1250°C	●			●	●	●
					1300°C	●	●		●	●	●
					1350°C	●		●	●	●	●
					1400°C	●	●	●	●	●	●

● → Switch On

S1-S2 1-8 off: FDT/DTM

*See instruction leaflet

Description		Part-No.	Type	PU
Screw terminal				
Nominal voltage	DC 24 V	750340	LCON TA DFDT 806210	1
Spring terminal				
Nominal voltage	DC 24 V	751340	LCON TA DFDT 806211	1

Input	**PT, poti, resistance**	**Thermocouples**
Measurement input	PT100, PT1000, Potenziometer 0–100 kΩ customer specific via contact points, polynomial	Type B, C, E, J, K, N, R, S, T customer specific via contact points, polynomial
Galvanic isolation I/O	3-way isolation	
Temperature range	-220... 850 °C depending on type	-210...2310 °C depending on type
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)	
Input resistance	-	1 MΩ
Sensor current	0.2/0.6 mA type-dependent	-
Circuit	PT - 2, 3, 4-wire, for 2-conductor with offset adjustment, no external bridges necessary, autom. detection	

Output	**0-10 V**	**-10 – +10 V**	**0 – 20 mA**	**4 – 20 mA**
Output signal	adjustable via switch and software FDT/DTM, connection via USB service cable			
Max. load impedance at I-output	-		700 Ω	
Max. load impedance at U-output	>2 kΩ		-	
Limitation for exceeding measurement range	10.25 V		20.5 V	
max. modulation range/output current	10.5 V		21 mA	
Ripple	-			

General	**PT, poti, resistance**	**Thermocouples**
Nominal voltage	DC 24 V	
Operation voltage range	16.8–30 V	
Rated current	approx. 18 mA	
Status Indication	LED green, red (error)	
Input/output protection	Overvoltage DC 30 V, Output short circuit-proof	
Accuracy	(10K: set Measurement range(K)) + 0.2% FSR	(10K: set Measurement range(K)) + 0.4% FSR
Resolution	16-bit	
Linearity error	± 0.1 % FSR	
Temperaturcompensation intern	-	±1 K typ., max. ±2 K
Termination	Screw-/spring terminal: 0.14–1.5 mm^2	
Configuration	Switch and software: FDT / DTM	
Temperature error	<100 ppm/K	
Data storage	Flash	
Insulation voltage input/output	AC 2.5 kV$_{eff}$	
Housing material	PA 6.6 (UL 94 V-0)	
Field installation	rail TS 35 (EN 50022)	
Protection class	IP 20	
Installation postition	Optional	
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 (kg/piece)	0.050	
Approvals	cULus, Class I, Div. 2, Groups A,B,C,D T4	

Accessories	**Colour**	**2-pole**	**3-pole**	**4-pole**	**8-pole**	**16-pole**	**PU**
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Accessories	**Article number**	**Type**	**PU**
USB service cable	750894	LCON ZB USB	1
Label holder 4×11mm white	681313	BZT-0411	100