

# Interface Technology - Microcompact signal converter

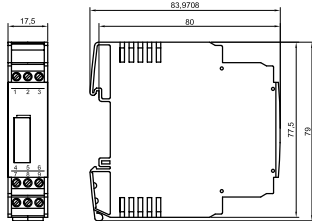
**Input: 0–10 V / 0–20 mA / 4–20 mA - adjustable**

**Output: 0–50 / 0–100 / 0–1000 / 0–10.000 Hz - adjustable**

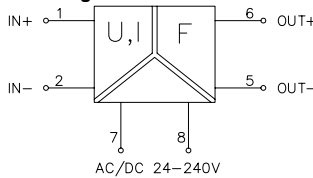
**Insulation: 4 kV, 3-way isolation wide range input**



## Dimensions



## PIN assignment



## Range adjustment

S1		
Input	Output	Pos.
0 - 20mA	0 - 50Hz	0
0 - 20mA	0 - 100Hz	1
0 - 20mA	0 - 1kHz	2
0 - 20mA	0 - 10kHz	3
4 - 20mA	0 - 50Hz	4
4 - 20mA	0 - 100Hz	5
4 - 20mA	0 - 1kHz	6
4 - 20mA	0 - 10kHz	7
0 - 10V	0 - 50Hz	8
0 - 10V	0 - 100Hz	9
0 - 10V	0 - 1kHz	A
0 - 10V	0 - 10kHz	B

Description	Part-No.	Type	PU	
<b>Screw terminal</b>				
Rated voltage	AC/DC 24–240 V	750512	WNAF 6-0512	1
<b>Spring terminal</b>				
Rated voltage	AC/DC 24–240 V	751512	WNAF 6-1512	1
<b>Input</b>				
	<b>0–10 V</b>	<b>0–20 mA</b>	<b>4–20 mA</b>	
Input resistance	330 kΩ		100 Ω	
Input signal	adjustable via DIP switch S1			
Galvanic isolation I/O	3-way isolation			
Zero /Span	Production comparison			
Transmission frequency	30 Hz at 3 dB			
<b>Output</b>				
	<b>0–50 Hz</b>	<b>0–100 Hz</b>	<b>0–1000 Hz</b>	<b>0–10000 Hz</b>
Output signal	adjustable via DIP switch S1			
Max. load impedance at I-output	–			
Max. load impedance at U-output	–			
Output voltage	15 V at 4 mA, 10 V at 7 mA			
Output current	max. 7 mA			
Ripple	<5 mV <sub>eff</sub>			
<b>General</b>				
Rated voltage	AC/DC 24–240 V			
Operation voltage range	DC: 16.8–264 V; AC: 19.2–264 V			
Rated current	12.0 mA			
Status indication	LED yellow			
Input/output protection	Overvoltage AC/DC 30 V; Current input with PTC, Output short circuit-proof			
Accuracy	0.1 % FSR (23 °C)			
Linearity error	0.02 %			
Rise time (10 - 90%)	–			
Build-up time (Accuracy 1%)	–			
Transmission frequency	<30 Hz			
Temperature coefficient	<150 ppm / K FSR			
Insulation voltage input/output	4.0 kV <sub>eff</sub>			
Housing material	PPE			
Field installation	rail TS 35 (EN 50022)			
IP rating	IP 20			
Installation position	Optional			
Termination	Screw-/spring terminal: 0.14–1.5 mm <sup>2</sup>			
Operation temperature range	-25 °C – 60 °C			
Storage temperature range	-40 °C – 85 °C			
Dimensions (w x h x d)	17.5 x 79.0 x 84.0 mm			
Weight (kg/piece)	0.070			
Approvals	cULus			
<b>Accessories</b>				
	<b>Colour</b>	<b>Article number</b>	<b>Type</b>	<b>Pkg. units</b>
Jumper comb 24pole, 26A	blue	760801	BK 6-0801	5
marker holder	white	681311	BZT 0720	100
Labels for laser printer A4 unpunched		681031	LEB - A4	1
Labels for laser printer 6,35 x 15,24mm (Sheet with 528 labels)		681033	LEB 0615	1

# Interface Technology - Microcompact signal converter

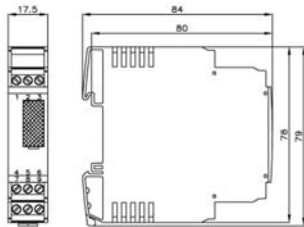
**Input: Frequency AC und DC Signals, 0–28.8 kHz**

**Output: 0–10 V / 0–20 mA / 4–20 mA - adjustable**

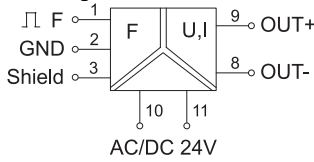
**Insulation: 4 kV, 3-way isolation**



### Dimensions



### PIN assignment



### Range adjustment

S2 → Switch On	
Range*	1 2 3 4 5 6 8
0–100Hz	●●●●●●
0–200Hz	●●●●●●
0–250Hz	●●●●●●
0–400Hz	●●●●●●
0–500Hz	●●●●●●
0–750Hz	●●●●●●
0–1kHz	●●●●●●
0–1.5kHz	●●●●●●
0–2kHz	●●●●●●
0–2.5kHz	●●●●●●
0–3kHz	●●●●●●
0–4kHz	●●●●●●
Hysteresis	0.5V <sub>opp</sub> / 5V <sub>opp</sub>

\*see instruction leaflet

S1 → Switch On	
Output	1 2 3
0–10V	●
0–20mA	●
4–20mA	●

Description	Part-No.	Type	PU
<b>Screw terminal</b>			
Rated voltage	AC/DC 24 V	750524	WNFA 6-0524
<b>Spring terminal</b>			
Rated voltage	AC/DC 24 V	751524	WNFA 6-1524
<b>Input</b>			
<b>0–28.8 kHz</b>			
Input signal	0–100, 0–200, 0–250, 0–400, 0–500, 0–750 Hz 0–1, 0–1.5, 0–2, 0–2.5, 0–3, 0–4, 0–5, 0–6, 0–8 kHz 0–10, 0–12, 0–16, 0–20, 0–24, 0–28.8 kHz adjustable via DIP switch S2		
Galvanic isolation I/O	3-way isolation		
Frequency signal	AC/DC 0.8–30 V		
Input characteristic impedance	50 kΩ		
Hysteresis	0,5 V <sub>ss</sub> / 5 V <sub>ss</sub> , adjustable via DIP switch S2		
Hysteresis	–		
Pulse width	min. 10 μs		
<b>Output</b>			
	<b>0–10 V</b>	<b>0–20 mA</b>	<b>4–20 mA</b>
Max. load impedance at I-output	–	400 Ω	–
Max. load impedance at U-output	>1 kΩ	–	–
Load impedance	55	–	–
Output current	max. 21 mA	–	–
Output signal	adjustable via DIP switch S1		
Output voltage	–		
Ripple	<5 mV <sub>eff</sub>		
<b>General</b>			
Rated voltage	AC/DC 24 V		
Operation voltage range	DC: 16.8–30 V; AC: 19.2–28.8 V		
Rated current	12.0 mA		
Status indication	LED yellow		
Input/output protection	Overvoltage AC/DC 30 V; Output short circuit-proof		
Accuracy	0.1 % FSR (23 °C)		
Linearity error	0.02 %		
Ripple	approx. 0.1%, range 2...28.8 kHz from 200 Hz		
Build-up time (Accuracy 1%)	200 ms		
Transmission frequency	–		
Temperature coefficient	70 ppm / K		
Insulation voltage input/output	4.0 kV <sub>eff</sub>		
Housing material	PPE		
Field installation	rail TS 35 (EN 50022)		
IP rating	IP 20		
Installation position	Optional		
Termination	Screw-/spring terminal: 0.14–1.5 mm <sup>2</sup>		
Operation temperature range	–25 °C – 60 °C		
Storage temperature range	–40 °C – 85 °C		
Dimensions (w x h x d)	17.5 x 79.0 x 84.0 mm		
Weight (kg/piece)	0.070		
Approvals	cULus in preparation		
<b>Accessories</b>			
	<b>Colour</b>	<b>Article number</b>	<b>Type</b>
Jumper comb 24pole, 26A	blue	760801	BK 6-0801
marker holder	white	681311	BZT 0720
Labels for laser printer A4 unpunched		681031	LEB - A4
Labels for laser printer 6,35 x 15,24mm (Sheet with 528 labels)		681033	LEB 0615

# Interface Technology - Microcompact signal converter

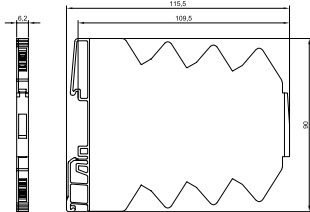
**Input: 0–10V / 2–10V / 0–20 mA / 4–20mA - programmable limit value switch**

**Output: Semi-conductor output, limit value A, B**

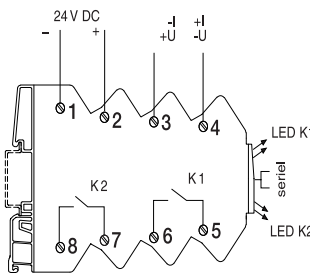
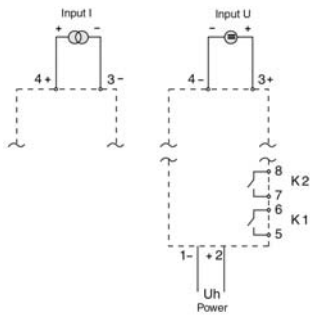
**Insulation: 2.5 kV, 3-way isolation**



### Dimensions



### PIN assignment



Description	Part-No.	Type	PU				
<b>Screw terminal</b>							
Rated voltage	750101	WLS 7-0101	1				
<b>Spring terminal</b>							
Rated voltage	751101	WLS 7-1101	1				
<b>Input</b>							
	<b>0 – 10 V</b>	<b>2 – 10 V</b>	<b>0 – 20 mA</b>	<b>4 – 20 mA</b>			
Input resistance	100 kΩ			100 Ω			
Galvanic isolation I/O	3-way isolation						
Zero /Span	–						
Transmission frequency	100 Hz						
Input signal	0(2)–10V, 0(4)–20mA; adjustable via Software, connection via mini-USB						
<b>Output</b>							
Contact type	K1,K2: Semi-conductor, N/O contact						
Min. switching voltage	–						
Max. switching voltage	AC/DC 30 V						
Min. switching current	–						
Max. switching current	AC/DC 100 mA						
<b>General</b>							
Rated voltage	DC 24 V						
Operation voltage range	DC 20 V–30 V						
Rated current	30.0 mA						
Status indication	LED green, blinks for alarm						
Adaptive control constraint	0 – 110 %						
Hysteresis	0 – 90 %						
Delay ON/OFF	0 – 999 s						
Operating mode	Limit value, window, tendency +, tendency -, tendency +/-, inversion						
Linearity error	0.1 % FSR (23 °C)						
Transmission frequency	–						
Temperature error	< 30 ppm / °C						
Insulation voltage input/output	2.5 kV <sub>eff</sub>						
Housing material	PPE						
Field installation	rail TS 35 (EN 50022)						
IP rating	IP 20						
Installation position	Optional						
Termination	Screw-/spring terminal 0.14–1.5 mm <sup>2</sup>						
Operation temperature range	0 °C – 60 °C						
Storage temperature range	-40 °C – 70 °C						
Dimensions (w x h x d)	6.2 x 90.0 x 115.5 mm						
Weight (kg/piece)	0.120						
Approvals	cULus in preparation						
<b>Accessories</b>	<b>Colour</b>	<b>2-pole</b>	<b>3-pole</b>	<b>4-pole</b>	<b>8-pole</b>	<b>16-pole</b>	<b>Pkg. units</b>
Jumper comb 6A	red	762802	762805	762812	762822	762832	5
Jumper comb 6A	white	762803	762806	762813	762823	762833	5
Jumper comb 6A	blue	762804	762807	762814	762824	762834	5
<b>Accessories</b>	<b>Colour</b>	<b>Article number</b>		<b>Type</b>			<b>Pkg. units</b>
Programming tool		750891		WPZB 7-0891			1
Marker holder 4x11 mm	white	681313		BZT 0411			100
Isolation plate		760809		TP 7-0809			5
Labels for laser printer A4 unpunched		681031		LEB-A-4			1
Labels for laser printer 4.23 x 11 mm (Sheet with 1056 labels)		681034		LEB 0411			1

**Comments**  
 Application: The limit switch is used for the limit value monitoring of standardized signals. These are used as threshold switch, monitoring relay, for temperature monitoring, pressure monitoring, overflow monitoring, dry-running monitoring, motor protection monitoring, speed monitoring, etc.

**Description**  
 Function: The process factors to be monitored can be present as direct current signal or DC voltage signal. After internal processing of the input signal, this is compared with the digitally set limit value and in the case of exceeding or falling below of the measurement signal, a transistor output is activated. Two switching functions can be realized via the transistor outputs each with one output. Each switching function can be parameterized with individual hysteresis from 0.1...90%, an On/Off switching delay from 0...999 seconds, an inverse operation as well as with a safety switching state for signal disturbances.

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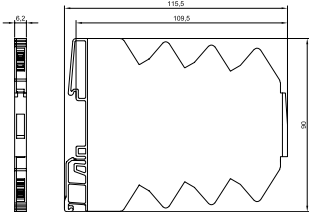
**Input: AC/DC 0–1 A / 0–5 A**

**Output: 0–10 V / 0–20 mA / 4–20 mA - adjustable**

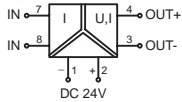
**Insulation: 2.5 kV, 3-way isolation**



### Dimensions



### PIN assignment



### Range adjustment

● → Switch On		S1			
Input	Output	1	2	3	4
0-1A	0-10V				
0-1A	0-20mA	●			
0-1A	4-20mA		●		

● → Switch On		S1			
Input	Output	1	2	3	4
0-5A	0-10V				
0-5A	0-20mA	●			
0-5A	4-20mA		●		

Description	Part-No.	Type	PU				
<b>Screw terminal</b>							
Rated voltage	DC 24 V, 0–1 A	750540	WAA 7-0540	1			
	DC 24 V, 0–5 A	750541	WAA 7-0541	1			
<b>Spring terminal</b>							
Rated voltage	DC 24 V, 0–1 A	751540	WAA 7-1540	1			
	DC 24 V, 0–5 A	751541	WAA 7-1541	1			
<b>Input</b>		<b>750540/751540</b>	<b>750541/751541</b>				
Input signal	AC/DC 0 – 1 A, ± 1 A, true RMS	AC/DC 0 – 5 A, ± 5 A, true RMS					
Input characteristic impedance	typ. 0.2 Ω	typ. 0.1 Ω					
Galvanic isolation I/O	3-way isolation						
Zero /Span	Production comparison						
Line frequency							
Strip width	6 kHz						
<b>Output</b>		<b>0–10 V</b>	<b>0–20 mA</b>	<b>4–20 mA</b>			
Max. load impedance at I-output	–		400 Ω				
Max. load impedance at U-output	>1 kΩ		–				
Load impedance	55 Ω		–				
Output current	max. 21 mA		–				
Output signal	adjustable via DIP switch S1						
Ripple	<5 mV <sub>eff</sub>						
<b>General</b>							
Rated voltage	DC 24 V						
Operation voltage range	DC: 16.8–30 V						
Rated current	13.0 mA						
Status indication	LED yellow						
Input/output protection	–						
Accuracy	0.5 % FSR (23 °C)						
Linearity error	0.10 %, FSR (23°C)						
Rise time (10 - 90%)	–						
Build-up time (Accuracy 1%)	150 ms						
Transmission frequency	–						
Temperature coefficient	<150 ppm / K FSR						
Insulation voltage input/output	2.5 kV <sub>eff</sub>						
Housing material	PPE						
Field installation	rail TS 35 (EN 50022)						
IP rating	IP 20						
Installation position	Optional						
Termination	Screw-/spring terminal 0.14–1.5 mm <sup>2</sup>						
Operation temperature range	-25 °C – 60 °C						
Storage temperature range	-40 °C – 85 °C						
Dimensions (w x h x d)	6.2 x 90.0 x 115.5 mm						
Weight (kg/piece)	0.055						
Approvals	cULus in preparation						
<b>Accessories</b>	<b>Colour</b>	<b>2-pole</b>	<b>3-pole</b>	<b>4-pole</b>	<b>8-pole</b>	<b>16-pole</b>	<b>Pkg. units</b>
Jumper comb 6A	red	762802	762805	762812	762822	762832	5
Jumper comb 6A	white	762803	762806	762813	762823	762833	5
Jumper comb 6A	blue	762804	762807	762814	762824	762834	5
<b>Accessories</b>	<b>Colour</b>	<b>Article number</b>		<b>Type</b>			<b>Pkg. units</b>
Tag holder 4x11 mm	white	681313		BZT 0411			100
Isolation plate		760809		TP 7-0809			5
Labels for laser printer A4 unpunched		681031		LEB - A4			1
Labels for laser printer 4.23 x 11 mm (Sheet with 1056 labels)		681034		LEB 0411 PB			1

# Interface Technology - Microcompact signal converter

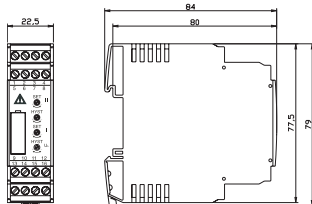
## AC/DC - Current - Monitoring Module

Input: DC 0–1 A; 0–5 A; ± 1 A; ± 5 A / AC 0–1 A; 0–5 A

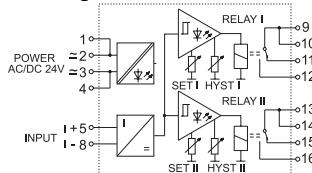
Output: 2 Relays each with 1directional contact; insulation: 4 kV, 3-way isolation



### Dimensions

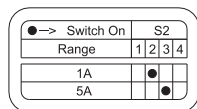


### PIN assignment



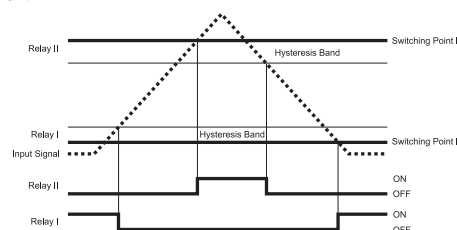
### Range adjustment

S1	OFF	ON
1	Relay I MAX	Relay I MIN
2	Relay I normal	Relay I inverse
3	Relay II MAX	Relay II MIN
4	Relay II normal	Relay II inverse
5	-	Relay II power supply detection
6	Unipolar input	Bipolar input
7	AC input	DC input
8	DC input	AC input



Description	Part-No.	Type	PU
<b>Screw terminal</b>			
Rated voltage	AC/DC 24 V	750100	CCR 6-0100 AC/DC 24 V
<b>Input</b>			
Input signal	DC 0–1 A; 0–5 A; ± 1 A; ± 5 A; / AC 0–1 A; 0–5 A, sinusoidal		
Input signal	adjustable via DIP switch S2		
Galvanic isolation I/O	3-way isolation		
Line frequency	10 – 500 Hz		
Input characteristic impedance	<0.01 Ω		
Input overload capability	2 x I rated continuous, 100 A for 1 s		
<b>Output</b>			
Output	2 relay outputs		
Contact type	1 directional contact each		
Min. switching voltage	AC/DC 17 V		
Max. switching voltage	AC/DC 250 V		
Min. switching current	AC/DC 5 mA		
Max. switching current	AC/DC 6 A		
Max. switching capacity	1500 VA		
Rise time	20 ms		
Switching thresholds	0–100 % independently adjustable (12-turn potentiometer)		
Hysteresis	0–60 % vom Endwert einstellbar (12-Gang Potenziometer)		
Control mode, Relay	adjustable via DIP switch S1		
<b>General</b>			
Rated voltage	AC/DC 24 V		
Operation voltage range	AC/CD 20.4–27.6 V		
Rated current	– mA		
Status indication	1 yellow LED per switching contact		
Input/output protection	–		
Accuracy	0.2 % FSR (23 °C)		
Temperature coefficient	<150 ppm / K FSR		
Insulation voltage	Input/Output: 4.0 kV / 2.5 kV between the relays		
Housing material	PPE		
Field installation	rail TS 35 (EN 50022)		
IP rating	IP 20		
Installation position	Optional		
Termination	Screw terminal: 0.25–2.5 mm <sup>2</sup>		
Operation temperature range	–20 °C – 60 °C		
Storage temperature range	–40 °C – 85 °C		
Dimensions (w x h x d)	22.5 x 84.0 x 79.0 mm		
Weight (kg/piece)	0.090		
Approvals	cULus		
<b>Accessories</b>			
	Colour	Article number	Type
Jumper comb 24pole, 26A	blue	760801	BK 6-0801
marker holder	white	681311	BZT 0720
Labels for laser printer A4 unpunched		681031	LEB - A4
Labels for laser printer 6,35 x 15,24mm (Sheet with 528 labels)		681033	LEB 0615

### Action chart



Parameterisation: relay I MIN, relay II MAX, relays I und II NO contacts (normal)

# Interface Technology - Minicompact signal converter

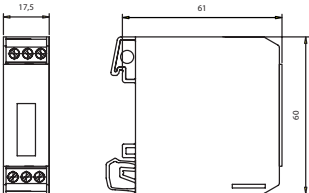
## DC - Current - Monitoring Module

Input: DC 24 V / 0–2.5 A

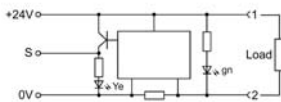
Output: DC 24 V, signal output: Transistor



### Dimensions



### PIN assignment



Description	Part-No.	Type	PU	
<b>Screw terminal</b>				
Rated voltage	DC 24 V	730866	LVUE 4-0866 DC 24 V	
<b>Input</b>				
		<b>DC 0–2.5 A</b>		
Input signal	0–2.5 A			
Galvanic isolation I/O	No			
Input characteristic impedance	<0.13 Ω			
Voltage control	DC 18–30V, LED green			
<b>Output</b>				
Output voltage	DC 24 V (Ub)–0.4 V			
Output current	2.5 A continuous, 10 A for 1 s			
Output voltage	DC 24 V (Ub)–0.5 V			
Output current	max. 50 mA			
Switching-element notify output	Transistor			
Rise time	20 ms			
Switching thresholds	$I_M = 250 \text{ mA} / U_b = 18 \text{ V}$			
<b>General</b>				
Rated voltage	DC 24 V			
Operation voltage range	DC 18–30 V			
Rated current	– mA			
Status indication	LED green: Voltage good, LED yellow: signal output on			
Input/output protection	varistor			
Accuracy	±10 %			
Temperature coefficient	–			
Insulation voltage input/output	– $kV_{\text{eff}}$			
Housing material	PPE			
Field installation	rail TS 35 (EN 50022)			
IP rating	IP 20			
Installation position	Optional			
Termination	Screw terminal: 0.25–2.5 mm <sup>2</sup>			
Operation temperature range	–20 °C – 60 °C			
Storage temperature range	–40 °C – 85 °C			
Dimensions (w x h x d)	17.5 x 60.0 x 67.0 mm			
Weight (kg/piece)	0.075			
Approvals	–			
<b>Accessories</b>	<b>Colour</b>	<b>Article number</b>	<b>Type</b>	<b>Pkg. units</b>
Jumper comb 24pole, 26A	blue	760801	BK 6-0801	5
tag holder 9x20 mm	white	681315	BZT 0920	100
Labels for laser printer A4 unpunched		681031	LEB - A4	1
Labels for laser printer 9 x 20 mm (Sheet with 270 labels)		681032	LEB 0924	1

# Interface Technology - Microcompact signal converter

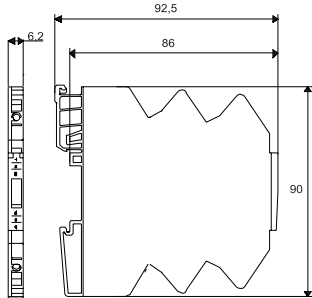
Output: 0–500 mV

Output: 0–10 V / 0–20 mA / 4–20 mA - adjustable

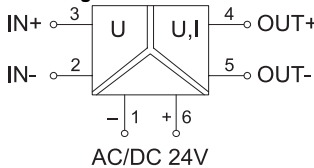
Insulation: 1.5 kV; 3-way isolation



### Dimensions



### PIN assignment



### Range adjustment

● → Switch On	S1						
Range	Output	1	2	3	4	5	6
0 – 500mV	0-10V						
0 – 500mV	0-20mA		●				
0 – 500mV	4-20mA			●			

Description	Part-No.	Type	PU				
<b>Screw terminal</b>							
Rated voltage	AC/DC 24 V	750550	WAA 7-0550				
<b>Spring terminal</b>							
Rated voltage	AC/DC 24 V	751550	WAA 7-1550				
<b>Input</b>							
Input signal	0–500 mV						
Galvanic isolation I/O	3-way isolation						
Zero /Span	Production comparison						
Transmission frequency	30 Hz at 3 dB						
Input characteristic impedance	330 kΩ						
<b>Output</b>							
	<b>0–10 V</b>	<b>0–20 mA</b>	<b>4–20 mA</b>				
Max. load impedance at I-output	–	400 Ω	–				
Max. load impedance at U-output	>1 kΩ	–	–				
Load impedance	55 Ω	–	–				
Output current	max. 21 mA	–	–				
Output signal	adjustable via DIP switch S1						
Ripple	<5 mV <sub>eff</sub>						
<b>General</b>							
Rated voltage	AC/DC 24 V						
Operation voltage range	DC: 16.8–30 V; AC: 19.2–28.8 V						
Rated current	13.0 mA						
Status indication	LED yellow						
Input/output protection	Overvoltage AC/DC 30 V, PTC fuse, Output short circuit-proof						
Accuracy	0.1 % FSR (23 °C)						
Linearity error	0.10 %						
Rise time (10 - 90%)	10 ms						
Build-up time (Accuracy 1%)	30 ms						
Transmission frequency	<30 Hz						
Temperature coefficient	<150 ppm / K FSR						
Insulation voltage input/output	1.5 kV <sub>eff</sub>						
Housing material	PPE						
Field installation	rail TS 35 (EN 50022)						
IP rating	IP 20						
Installation position	Optional						
Termination	Screw-/spring terminal 0.14–1.5 mm <sup>2</sup>						
Operation temperature range	-25 °C – 60 °C						
Storage temperature range	-40 °C – 85 °C						
Dimensions (w x h x d)	6.2 x 90.0 x 92.5 mm						
Weight (kg/piece)	0.040						
Approvals	cULus in preparation						
<b>Accessories</b>	<b>Colour</b>	<b>2-pole</b>	<b>3-pole</b>	<b>4-pole</b>	<b>8-pole</b>	<b>16-pole</b>	<b>Pkg. units</b>
Jumper comb 6A	red	762802	762805	762812	762822	762832	10
Jumper comb 6A	white	762803	762806	762813	762823	762833	10
Jumper comb 6A	blue	762804	762807	762814	762824	762834	10
<b>Accessories</b>	<b>Colour</b>	<b>Article number</b>		<b>Type</b>		<b>Pkg. units</b>	
Tag holder 4x11 mm	white	681313		BZT 0411		100	
Isolation plate		760809		TP 7-0809		5	
Labels for laser printer A4 unpunched		681031		LEB - A4		1	
Labels for laser printer 4.23 x 11 mm (Sheet with 1056 labels)		681034		LEB 0411		1	

# Interface Technology - Microcompact signal converter

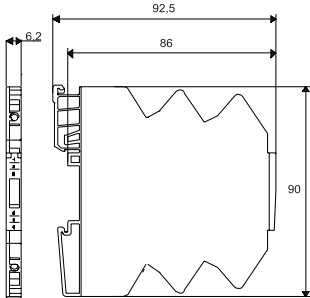
Input: 0–60 mV

Output: 0–10 V

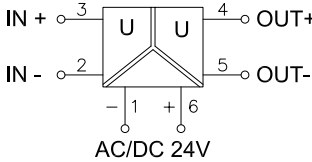
Insulation: 1.5 kV; 3-way isolation



## Dimensions



## PIN assignment



Description	Part-No.	Type	PU				
<b>Screw terminal</b>							
Rated voltage	AC/DC 24 V	750901	WAA 7-0901	1			
<b>Spring terminal</b>							
Rated voltage	AC/DC 24 V	751901	WAA 7-1901	1			
<b>Input</b>							
Input signal	0–60 mV						
Galvanic isolation I/O	3-way isolation						
Zero /Span	Production comparison						
Transmission frequency	30 Hz at 3 dB						
Input characteristic impedance	330 kΩ						
<b>Output</b>							
Output signal	0 – 10 V						
Max. load impedance at I-output	–						
Max. load impedance at U-output	>1 kΩ						
Load impedance	55 Ω						
Output current	max. 21 mA						
Ripple	<5 mV <sub>eff</sub>						
<b>General</b>							
Rated voltage	AC/DC 24 V						
Operation voltage range	DC: 16.8–30 V; AC: 19.2–28.8 V						
Rated current	13.0 mA						
Status indication	LED yellow						
Input/output protection	Overvoltage AC/DC 30 V, PTC fuse, Output short circuit-proof						
Accuracy	0.1 % FSR (23 °C)						
Linearity error	0.10 %						
Rise time (10 - 90%)	10 ms						
Build-up time (Accuracy 1%)	30 ms						
Transmission frequency	<30 Hz						
Temperature coefficient	<150 ppm / K FSR						
Insulation voltage input/output	1.5 kV <sub>eff</sub>						
Housing material	PPE						
Field installation	rail TS 35 (EN 50022)						
IP rating	IP 20						
Installation position	Optional						
Termination	Screw-/spring terminal 0.14–1.5 mm <sup>2</sup>						
Operation temperature range	-25 °C – 60 °C						
Storage temperature range	-40 °C – 85 °C						
Dimensions (w x h x d)	6.2 x 90.0 x 92.5 mm						
Weight (kg/piece)	0.040						
Approvals	cULus in preparation						
<b>Accessories</b>	<b>Colour</b>	<b>2-pole</b>	<b>3-pole</b>	<b>4-pole</b>	<b>8-pole</b>	<b>16-pole</b>	<b>Pkg. units</b>
Jumper comb 6A	red	762802	762805	762812	762822	762832	10
Jumper comb 6A	white	762803	762806	762813	762823	762833	10
Jumper comb 6A	blue	762804	762807	762814	762824	762834	10
<b>Accessories</b>	<b>Colour</b>	<b>Article number</b>		<b>Type</b>			<b>Pkg. units</b>
Tag holder 4x11 mm	white	681313		BZT 0411			100
Isolation plate		760809		TP 7-0809			5
Labels for laser printer A4 unpunched		681031		LEB - A4			1
Labels for laser printer 4.23 x 11 mm (Sheet with 1056 labels)		681034		LEB 0411			1



# Interface Technology - Microcompact signal converter

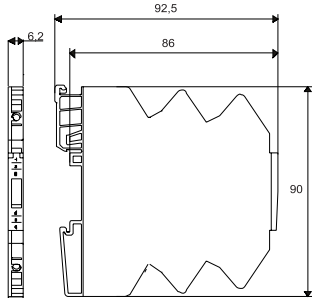
Input: 4–20 mA

Output: 0–5 V

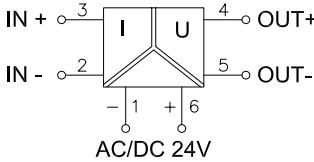
Insulation: 1.5 kV; 3-way isolation



### Dimensions



### PIN assignment



Description	Part-No.	Type	PU				
<b>Screw terminal</b>							
Rated voltage	AC/DC 24 V	750906	WAA 7-0906				
<b>Spring terminal</b>							
Rated voltage	AC/DC 24 V	751906	WAA 7-1906				
<b>Input</b>							
Input signal	4–20 mA						
Galvanic isolation I/O	3-way isolation						
Zero /Span	Production comparison						
Transmission frequency	30 Hz at 3 dB						
Input characteristic impedance	100 Ω						
<b>Output</b>							
Output signal	0–5 V						
Max. load impedance at I-output	–						
Max. load impedance at U-output	>1 kΩ						
Load impedance	55 Ω						
Output current	max. 21 mA						
Ripple	<5 mV <sub>eff</sub>						
<b>General</b>							
Rated voltage	AC/DC 24 V						
Operation voltage range	DC: 16.8–30 V; AC: 19.2–28.8 V						
Rated current	13.0 mA						
Status indication	LED yellow						
Input/output protection	Overvoltage AC/DC 30 V; Current input with PTC, Output short circuit-proof						
Accuracy	0.1 % FSR (23 °C)						
Linearity error	0.10 %						
Rise time (10 - 90%)	10 ms						
Build-up time (Accuracy 1%)	30 ms						
Transmission frequency	<30 Hz						
Temperature coefficient	<150 ppm / K FSR						
Insulation voltage input/output	1.5 kV <sub>eff</sub>						
Housing material	PPE						
Field installation	rail TS 35 (EN 50022)						
IP rating	IP 20						
Installation position	Optional						
Termination	Screw-/spring terminal 0.14–1.5 mm <sup>2</sup>						
Operation temperature range	-25 °C – 60 °C						
Storage temperature range	-40 °C – 85 °C						
Dimensions (w x h x d)	6.2 x 90.0 x 92.5 mm						
Weight (kg/piece)	0.040						
Approvals	cULus in preparation						
<b>Accessories</b>	<b>Colour</b>	<b>2-pole</b>	<b>3-pole</b>	<b>4-pole</b>	<b>8-pole</b>	<b>16-pole</b>	<b>Pkg. units</b>
Jumper comb 6A	red	762802	762805	762812	762822	762832	10
Jumper comb 6A	white	762803	762806	762813	762823	762833	10
Jumper comb 6A	blue	762804	762807	762814	762824	762834	10
<b>Accessories</b>	<b>Colour</b>	<b>Article number</b>		<b>Type</b>			<b>Pkg. units</b>
Tag holder 4x11 mm	white	681313		BZT 0411			100
Isolation plate		760809		TP 7-0809			5
Labels for laser printer A4 unpunched		681031		LEB - A4			1
Labels for laser printer 4.23 x 11 mm (Sheet with 1056 labels)		681034		LEB 0411			1

# Interface Technology - Microcompact signal converter

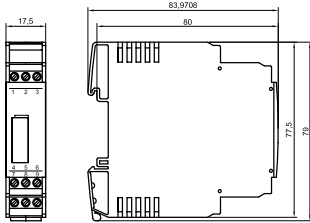
**Input: 0–1 V / 0–10 V / 4–20 mA - adjustable**

**Output: 0–10 V / 0–20 mA / 4–20 mA - adjustable**

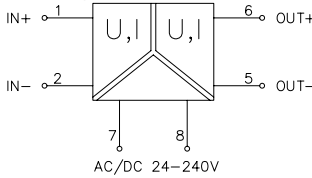
**Insulation: 4 kV, 3-way isolation with wide range input**



## Dimensions



## PIN assignment



## Range adjustment

S1		
Input	Output	Pos.
0 - 1V	0 - 10V	0
0 - 1V	0 - 20mA	1
0 - 1V	4 - 20mA	2
4 - 20mA	0 - 10V	3
4 - 20mA	0 - 20mA	4
4 - 20mA	4 - 20mA	5
0 - 10V	0 - 10V	6
0 - 10V	0 - 20mA	7
0 - 10V	4 - 20mA	8

Description	Part-No.	Type	PU
<b>Screw terminal</b>			
Rated voltage	AC/DC 24–240 V	750910	WNA 6-0910
<b>Spring terminal</b>			
Rated voltage	AC/DC 24–240 V	751910	WNA 6-1910
<b>Input</b>			
	<b>0–1 V</b>	<b>0–10 V</b>	<b>4–20 mA</b>
Input resistance	330 kΩ		100 Ω
Input signal	adjustable via DIP switch S1		
Galvanic isolation I/O	3-way isolation		
Zero /Span	Production comparison		
Transmission frequency	30 Hz at 3 dB		
<b>Output</b>			
	<b>0–10 V</b>	<b>0–20 mA</b>	<b>4–20 mA</b>
Max. load impedance at I-output	–	400 Ω	
Max. load impedance at U-output	>1 kΩ	–	
Load impedance	55 Ω	–	
Output current	max. 21 mA	–	
Output signal	adjustable via DIP switch S1		
Ripple	<5 mV <sub>eff</sub>		
<b>General</b>			
Rated voltage	AC/DC 24–240 V		
Operation voltage range	DC: 16.8–264 V; AC: 19.2–264 V		
Rated current	12.0 mA		
Status indication	LED yellow		
Input/output protection	Overvoltage AC/DC 30 V; Current input with PTC, Output short circuit-proof		
Accuracy	0.1 % FSR (23 °C)		
Linearity error	0.02 %		
Rise time (10 - 90%)	10 ms		
Build-up time (Accuracy 1%)	30		
Transmission frequency	<30 Hz		
Temperature coefficient	<150 ppm / K FSR		
Insulation voltage input/output	4.0 kV <sub>eff</sub>		
Housing material	PPE		
Field installation	rail TS 35 (EN 50022)		
IP rating	IP 20		
Installation position	Optional		
Termination	Screw-/spring terminal 0.14–1.5 mm <sup>2</sup>		
Operation temperature range	-25 °C – 60 °C		
Storage temperature range	-40 °C – 85 °C		
Dimensions (w x h x d)	6.2 x 79.0 x 84.0 mm		
Weight (kg/piece)	0.070		
Approvals	cULus		
<b>Accessories</b>			
	<b>Colour</b>	<b>Article number</b>	<b>Type</b>
Jumper comb 24pole, 26A	blue	760801	BK 6-0801
marker holder	white	681311	BZT 0720
Labels for laser printer A4 unpunched		681031	LEB - A4
Labels for laser printer 6.35 x 15,24mm (Sheet with 528 labels)		681033	LEB 0615

# Interface Technology - Microcompact signal converter

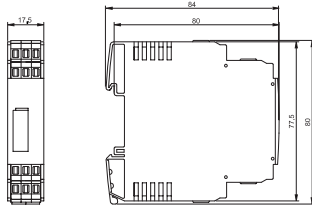
Input: 0–200 V

Output: 0–10 V

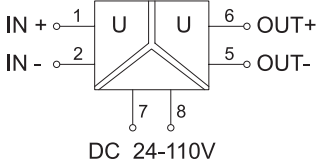
Insulation: 4 kV, 3-way isolation with wide range input



## Dimensions



## PIN assignment



Description	Part-No.	Type	PU	
<b>Spring terminal</b>				
Rated voltage	DC 24–110 V	751854	WAA 6-1854	1
<b>Screw terminal</b>				
Rated voltage	DC 24–110 V	750854	WAA 6-0854	1

<b>Input</b>	<b>0–200 V</b>
Input signal	0–200 V
Galvanic isolation I/O	3-way isolation
Zero /Span	Production comparison
Transmission frequency	30 Hz at 3 dB
Input characteristic impedance	330 kΩ
<b>Output</b>	<b>0 – 10 V</b>
Output signal	0 – 10 V
Max. load impedance at I-output	–
Max. load impedance at U-output	>1 kΩ
Load impedance	55 Ω
Output current	–
Ripple	<5 mV <sub>eff</sub>

<b>General</b>	
Rated voltage	DC 24–110 V
Operation voltage range	DC: 16.8–143 V
Rated current	12.0 mA
Status indication	LED yellow
Input/output protection	Overvoltage Varistor, PTC fuse, Output short circuit-proof
Accuracy	0.3 % FSR (23 °C)
Linearity error	0.10 %
Rise time (10 - 90%)	10 ms
Build-up time (Accuracy 1%)	30 ms
Transmission frequency	<30 Hz
Temperature coefficient	<150 ppm / K FSR
Insulation voltage input/output	4.0 kV <sub>eff</sub>
Housing material	PPE
Field installation	rail TS 35 (EN 50022)
IP rating	IP 20
Installation position	Optional
Termination	Screw-/spring terminal 0.14–1.5 mm <sup>2</sup>
Operation temperature range	-40°C – +70°C (+85°C 10 min)
Storage temperature range	-40 °C – 85 °C
Dimensions (w x h x d)	6.2 x 79.0 x 84.0 mm
Weight (kg/piece)	0.070
Approvals	cULus, EN 50155

Accessories	Colour	Article number	Type	Pkg. units
Jumper comb 24pole, 26A	blue	760801	BK 6-0801	5
marker holder	white	681311	BZT 0720	100
Labels for laser printer A4 unpunched		681031	LEB - A4	1
Labels for laser printer 6,35 x 15,24mm (Sheet with 528 labels)		681033	LEB 0615	1

# Interface Technology - Microcompact signal converter

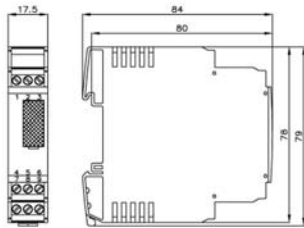
**Input: Full bridge, bridge voltage DC 5 V or DC 10 V**

**Output: 0–10 V / 0–20 mA / 4–20 mA**

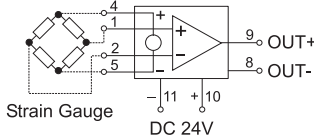
**Insulation: without**



### Dimensions



### PIN assignment



### Range adjustment

S2	● -> Switch On	1	2	3	4
Excitation	10V max. 50mA	●			
	5V max. 25mA		●		
Output	-10...+10V		●		
	0-20mA			●	
Bandwidth (Range: 30 (1)mV)	6 (1.5)Hz			●	
	25 (2)Hz				●

Range	On
+1mV	S1-8
+2mV	S1-7
+4mV	S1-6
+8mV	S1-5
+16mV	S1-4
+32mV	S1-3
+64mV	S1-2

Zero	On
+1mV	S1-1
+2mV	S2-8
+4mV	S2-7
+8mV	S2-6
-15mV	S2-5

Description	Part-No.	Type	PU
<b>Screw terminal</b>			
Rated voltage	DC 24 V	750522	WBRA 6-0522
<b>Spring terminal</b>			
Rated voltage	DC 24 V	751522	WBRA 6-1522

<b>Jumper</b>			
Jumper flow	DC 5 V, DC 10 V		
Temperature drift /K	35 ppm / K		
Difference from desired value	1.00%		
Jumper power	25 mA (5 V); 50 mA (10 V)		
Zero point	±15 mV, adjustable via DIP switch S1, S2		
Measuring range	±127 mV, adjustable via DIP switch S1		

<b>Measurement input</b>			
Input current	1 nA (typ.)		
Noise 0.1-10 Hz, pp RTI, typ.	1 µV		
Error range-changing switch	0,6 %		
Common-mode range	-7 V to +7 V		

<b>Output</b>			
	± 0–10 V	0–20 mA	4–20 mA
Max. load impedance at I-output	–	–	400 Ω
Max. load impedance at U-output	>1 kΩ	–	–
Load impedance	50 Ω	–	–
Output current	max. 5 mA	–	–
Output signal	adjustable via DIP switch S2		
Ripple	<5 mV <sub>eff</sub>		

<b>General</b>			
Rated voltage	DC 24 V		
Operation voltage range	20.4–28.8 V		
Rated current	20.0 mA		
Status indication	LED yellow		
Input/output protection	Overvoltage DC 30 V, Output short circuit-proof		
Accuracy	0.1 % FSR (23 °C)		
Linearity error	0.02 %		

Transmission frequency	Range 30 mV: 25 Hz / 6 Hz; range 1 mV: 2 Hz / 1.5 Hz - switchable		
Build-up time (Accuracy 1%)	25 Hz : 50 ms; 6 Hz : 200 ms, 2 Hz : 600 ms; 1.5 Hz : 800 ms		
Influence operation voltage	0,005 % / V		
Stability amplification (ranges>8 mV)	Temperature: 70 ppm/K, weathering: 1 year 800 ppm, 10 years 2500 ppm		
Stability zero point	Temperature: 1 µV / K, weathering: 1 year = 10 µV, 10 years = 40 µV		
Insulation voltage input/output	– kV <sub>eff</sub>		

Housing material	PPE		
Field installation	rail TS 35 (EN 50022)		
IP rating	IP 20		
Installation postition	Optional		
Termination	Screw-/spring terminal 0.14–1.5 mm <sup>2</sup>		
Operation temperature range	-25 °C – 60 °C		
Storage temperature range	-40 °C – 80 °C		
Dimensions (w x h x d)	17.5 x 79.0 x 84.0 mm		
Weight (kg/piece)	0.070		
Approvals	cULus in preparation		

Accessories	Colour	Article number	Type	Pkg. units
Jumper comb 24pole, 26A	blue	760801	BK 6-0801	5
marker holder	white	681311	BZT 0720	100
Labels for laser printer A4 unpunched		681031	LEB - A4	1
Labels for laser printer 6,35 x 15,24mm (Sheet with 528 labels)		681033	LEB 0615	1

# Interface Technology - Microcompact signal converter

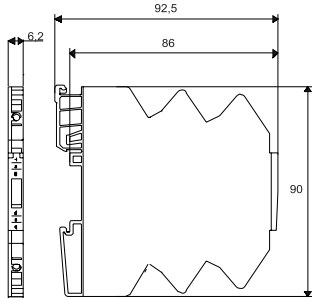
## Continuous voltage source, 1-channel

Input: DC 24 V

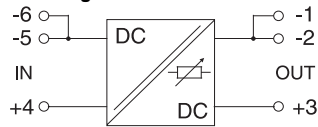
Output: DC 10 V



### Dimensions



### PIN assignment



Description	Part-No.	Type	PU				
<b>Screw terminal</b>							
Rated voltage	DC 24 V	762184	CV 7-2184 DC 24 V/10 V	1			
<b>Spring terminal</b>							
Rated voltage	DC 24 V	762084	CV 7-2084 DC 24 V/10 V	1			
<b>Input</b>							
Input signal	-						
Galvanic isolation I/O	2-way isolation						
Zero /Span	-						
Transmission frequency	-						
Input resistance	-						
<b>Output</b>							
<b>DC 10 V</b>							
Output signal	can be set via potentiometer						
Output voltage, setting range	9-11 V						
Output current	100 mA						
Current limitation	100 mA						
Regulating accuracy	1 %						
Ripple	<10 mV <sub>eff</sub>						
<b>General</b>							
Rated voltage	DC 24 V						
Operation voltage range	DC: 16.8-30 V						
Rated current	30.0 mA						
Status indication	LED yellow						
Input/output protection	Overvoltage AC/DC 30 V, Output short circuit-proof						
Power	1 W						
Hold up time	<10 ms						
Efficiency	85 %						
Insulation voltage input/output	0.1 kV <sub>eff</sub>						
Housing material	PPE						
Field installation	rail TS 35 (EN 50022)						
IP rating	IP 20						
Installation position	Optional						
Termination	Screw-/spring terminal 0.14-1.5 mm <sup>2</sup>						
Operation temperature range	-25 °C - 60 °C						
Storage temperature range	-40 °C - 85 °C						
Dimensions (w x h x d)	6.2 x 90.0 x 92.5 mm						
Weight (kg/piece)	0.040						
Approvals	cULus in preparation						
<b>Accessories</b>	<b>Colour</b>	<b>2-pole</b>	<b>3-pole</b>	<b>4-pole</b>	<b>8-pole</b>	<b>16-pole</b>	<b>Pkg. units</b>
Jumper comb 6A	red	762802	762805	762812	762822	762832	10
Jumper comb 6A	white	762803	762806	762813	762823	762833	10
Jumper comb 6A	blue	762804	762807	762814	762824	762834	10
<b>Accessories</b>	<b>Colour</b>	<b>Article number</b>		<b>Type</b>		<b>Pkg. units</b>	
Marker holder 4 x 11 mm	white	681313		BZT 0411		100	
Isolation plate		760809		TP 7-0809		5	
Labels for laser printer A4 unpunched		681031		LEB-A4		1	
Labels for laser printer 4.23 x 11 mm (Sheet with 1056 labels)		681034		LEB 0411		1	