

Standard, active voltage or current signals are galvanically isolated and transmitted via the 1-channel analog data transmitter IMS-Ai-DLi-DLi/L..

The device features one input circuit 0/4...20 mA and one short-circuit protected output circuit 0/4...20 mA. Input circuit, output circuit and supply voltage are each galvanically isolated.

The input signals are transmitted 1:1 to the output.

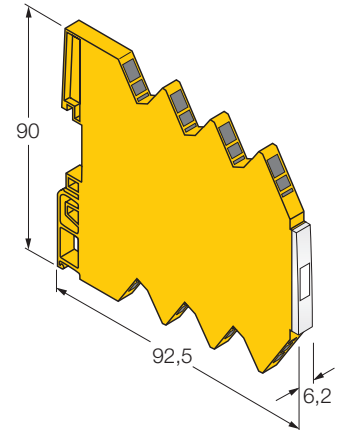
A green LED indicates operational readiness.

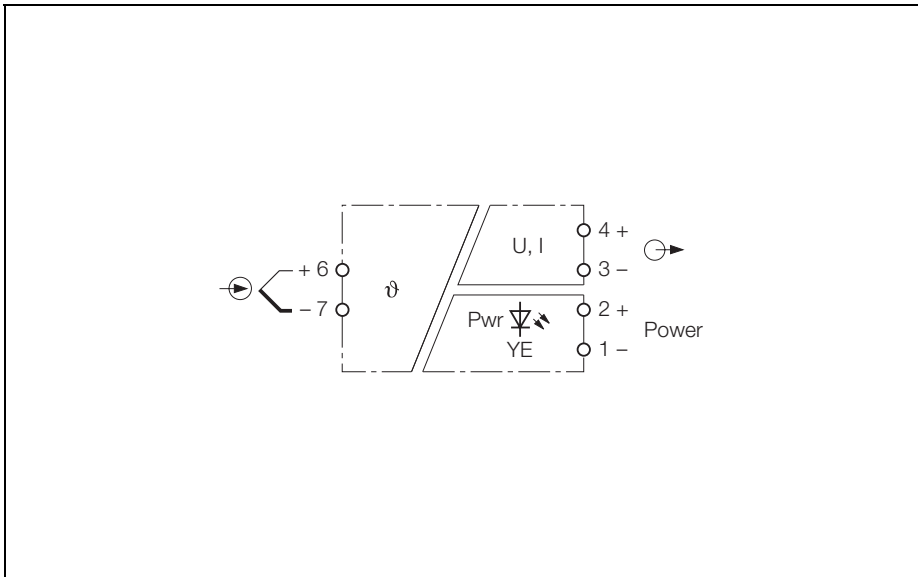
Das Gerät bietet bei einer Baubreite von 6,2 mm eine galvanische Trennung bis zu 1,5 kV.

- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter**
- **Input circuit 0...20mA**
- **Output signal 0...20mA**
- **3-way galvanic isolation**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

analogue signal transmitters
1-channel
IMS-AI-Di-Di/24VDC

Type	IMS-AI-Di-Di/24VDC
Ident-No.	7504004
Nominal voltage	
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Current input	
Current input	0-20 mA
Input resistance	100 Ω
Output circuits	
Output current	0...20 mA
Load resistance current output	≤ 0.4 kΩ
Limit frequency	
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	59 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions



The 1-channel temperature measuring amplifier IMS-TI-K/24VDC is designed to evaluate the temperature-dependent variations of thermoelements type K, to isolate them galvanically and to output them as temperature-linear voltage or current signals of 0...10 V, 0...20 mA or 4...20 mA.

The measuring range is adjusted via DIP switches.

Thermoelements type K can be operated at the input circuit of the temperature measuring amplifier.

Wire-break is detected. In the event of error

12 V or 22 mA are provided at the output and the error is additionally signalled by the flashing power LED .

The measuring range is adjusted with two switches. The following three measuring ranges are available for the standard device:

- -50 ... +200 °C
- 0 ... +400 °C
- 0 ... +600 °C

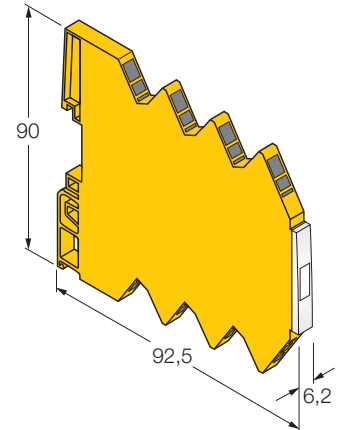
TURCK offers the IM34 series for other measuring ranges and temperature sensors.

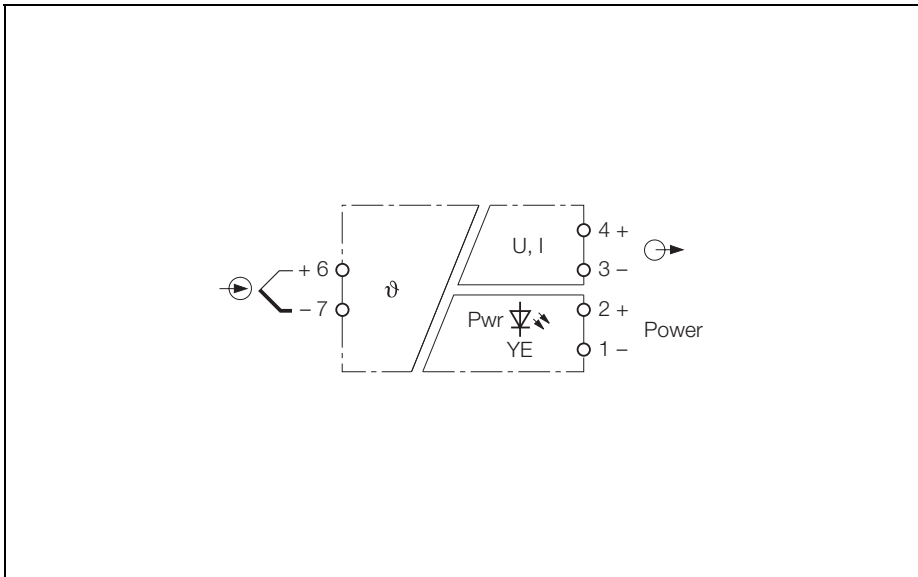
- **6.2 mm width**
- **1-channel temperature measuring amplifier**
- **Thermoelement type K**
- **Output signal 0/4...20mA**
- **Output signal 0...10V**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

temperature measuring amplifier
1-channel
IMS-TI-K/24V

Type	IMS-TI-K/24V
Ident-No.	7504015
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 3.2 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Thermoelements	-50...200°C; 0...400°C; 0...600°C
Output circuits	
Output current	0/4...20 mA
Output voltage	0...10 VDC
Load resistance voltage output	≥ 0.055 kΩ
Load resistance current output	≤ 0.4 kΩ
Limit frequency	< 10 Hz
Rise time (10-90%)	30 ms
Dropout time (90...10%)	30 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	60 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions





The 1-channel temperature measuring amplifier IMS-TI-J/24V is designed to evaluate the temperature-dependent variations of thermoelements type J, to isolate them galvanically and to output them as temperature-linear voltage or current signals of 0...10 V, 0...20 mA or 4...20 mA.

The measuring range is adjusted via lateral DIP switches.

Thermoelements type J can be operated at the input circuit of the temperature measuring amplifier.

Wire-break is detected. In the event of error

12 V or 22 mA are provided at the output and the error is additionally signalled by the flashing power LED .

The measuring range is adjusted with two switches. The following three measuring ranges are available for the standard device:

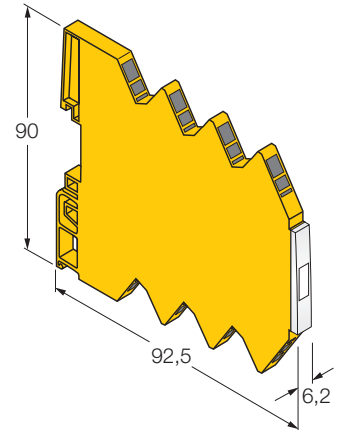
- -50 ... +200 °C
- 0 ... +400 °C
- 0 ... +600 °C

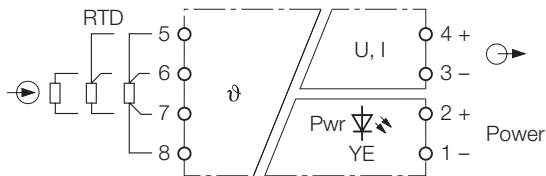
TURCK offers the IM34 series for other measuring ranges and temperature sensors.

- **6.2 mm width**
- **1-channel temperature measuring amplifier**
- **Thermoelement type J**
- **Output signal 0/4...20mA**
- **Output signal 0...10V**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

temperature measuring amplifier
1-channel
IMS-TI-J/24V

Type	IMS-TI-J/24V
Ident-No.	7504014
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 3.2 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Thermoelements	-50...200°C; 0...400°C; 0...600°C
Output circuits	
Output current	0/4...20 mA
Output voltage	0...10 VDC
Load resistance voltage output	≥ 0.055 kΩ
Load resistance current output	≤ 0.4 kΩ
Limit frequency	< 10 Hz
Rise time (10-90%)	30 ms
Dropout time (90...10%)	30 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	60 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions



The 1-channel temperature measuring amplifier IMS-TI-PT100/24V is designed to evaluate the temperature-dependent variations of Pt100 resistance temperature detectors, to isolate them galvanically and to output them as temperature-linear voltage or current signals of 0...10 V, 0...20 mA or 4...20 mA.

Connection mode and measuring range are adjusted via DIP switches.

Resistance thermo detectors Ni100/Pt100 in 2, 3 or 4-wire-technology can be operated alternatively at the input circuit of the measuring amplifier. The settings are adjusted via a DIP switch. The output signal type is also selected via DIP switch.

Wire-break and short-circuit are detected. In the event of error 12 V or 22 mA are provided at the output and the error is additionally signalled by the flashing power LED.

The measuring range is adjusted with two switches. The following three measuring ranges are available for the standard device:

- -50 ... +150 °C
- 0 ... +100 °C
- 0 ... +200 °C

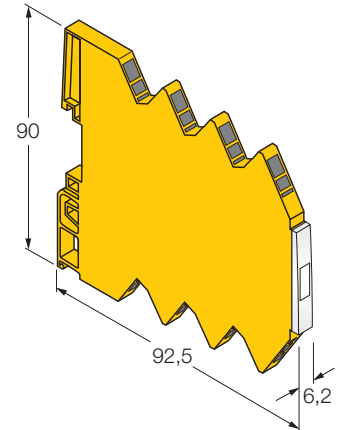
TURCK offers the IM34 series for other measuring ranges and temperature sensors.

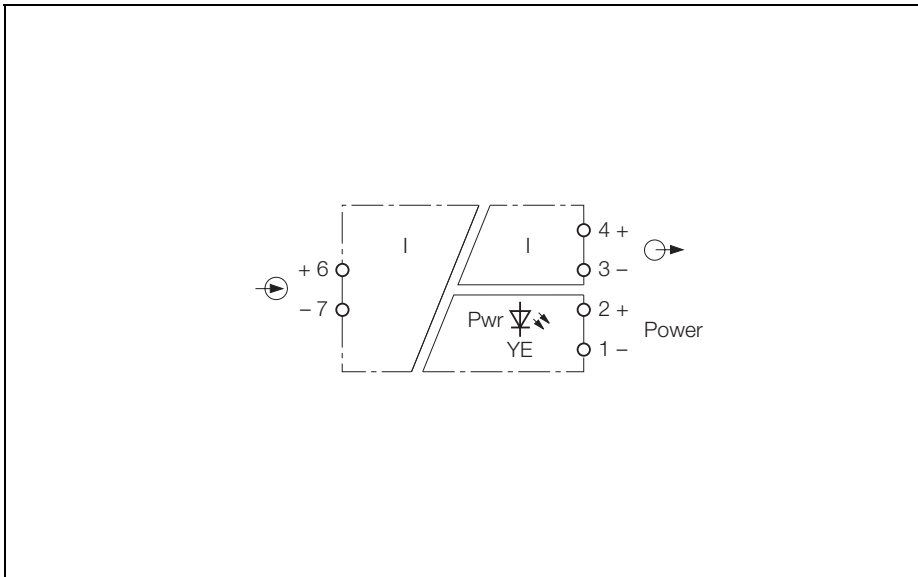
- **6.2 mm width**
- **1-channel temperature measuring amplifier**
- **Temperature probe PT100**
- **Output signal 0/4...20mA**
- **Output signal 0...10V**
- **3-way galvanic isolation**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

temperature measuring amplifier
1-channel
IMS-TI-PT100/24VDC

Type	IMS-TI-PT100/24VDC
Ident-No.	7504012
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 3.2 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Pt100	-50...150°C; 0...100°C; 0...200°C
Input resistance	1000 kΩ
Output circuits	
Output current	0/4...20 mA
Output voltage	0...10 VDC
Load resistance voltage output	≥ 0.055 kΩ
Load resistance current output	≤ 0.4 kΩ
Limit frequency	< 10 Hz
Rise time (10-90%)	30 ms
Dropout time (90...10%)	30 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	60 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions





Standard, active voltage signals are galvanically isolated, transmitted and converted to standard current signals via the 1-channel analog data transmitter IMS-AI-LI-DI/24VDC.

The device features one input circuit 4...20 mA and one short-circuit protected output circuit 4...20 mA. Input circuit, output circuit and supply voltage are each galvanically isolated.

The input signals are transmitted 1:1 to the output.

A green LED indicates operational readiness.

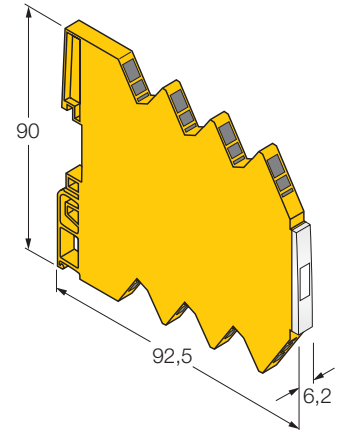
Das Gerät bietet bei einer Baubreite von 6,2 mm eine galvanische Trennung bis zu 1,5 kV.

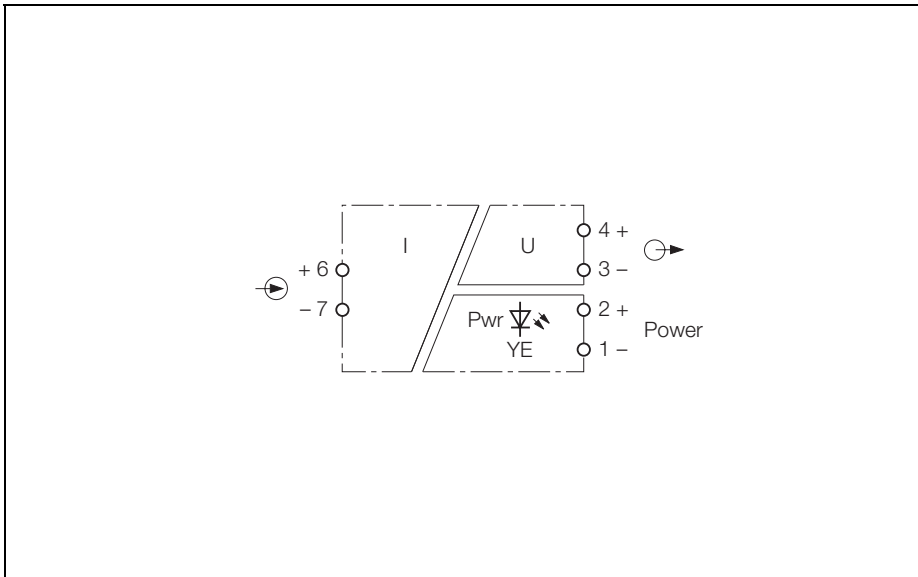
- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter**
- **Input circuit 4...20mA**
- **Output signal 4...20mA**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

analogue signal transmitters
1-channel
IMS-AI-Li-Li/24VDC

Type	IMS-AI-Li-Li/24VDC
Ident-No.	7504008
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Current input	
Current input	4-20 mA
Input resistance	100 Ω
Output circuits	
Output current	4...20 mA
Load resistance current output	≤ 0.4 kΩ
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	58 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions





Standard, active current signals are galvanically isolated, transmitted and converted to standard voltage signals via the 1-channel analog data transmitter IMS-AI-LI-DI/24VDC.

The device features one input circuit 4... 20 mA and one short-circuit protected output circuit 0...10 V. Input circuit, output circuit and supply voltage are each galvanically isolated.

The input signals are linear converted from a dead-zero signal to a life-zero signal and transmitted to the output.

A green LED indicates operational readiness.

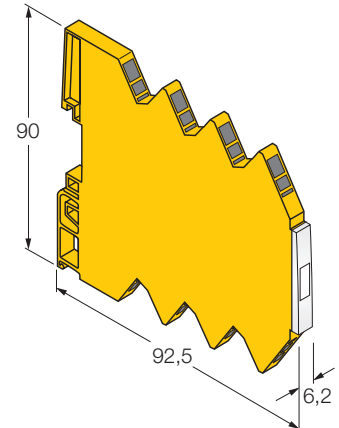
Das Gerät bietet bei einer Baubreite von 6,2 mm eine galvanische Trennung bis zu 1,5 kV.

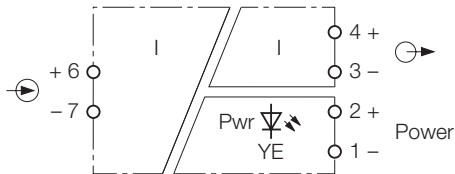
- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter**
- **Input circuit 0...20mA**
- **Output signal 4...10V**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

analogue signal transmitters
1-channel
IMS-AI-Li-DU/24VDC

Type	IMS-AI-Li-DU/24VDC
Ident-No.	7504006
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Current input	
Current input	4-20 mA
Input resistance	100 Ω
Output circuits	
Output voltage	0...10 VDC
Load resistance current output	≤ 0.055 kΩ
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	60 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions





Standard, active voltage signals are galvanically isolated, transmitted and converted to standard current signals via the 1-channel analog data transmitter IMS-AI-LI-DI/24VDC.

The device features one input circuit 0...20 mA and one short-circuit protected output circuit 4...20 mA. Input circuit, output circuit and supply voltage are each galvanically isolated.

The input signals are linear converted from a dead-zero signal to a life-zero signal and transmitted to the output.

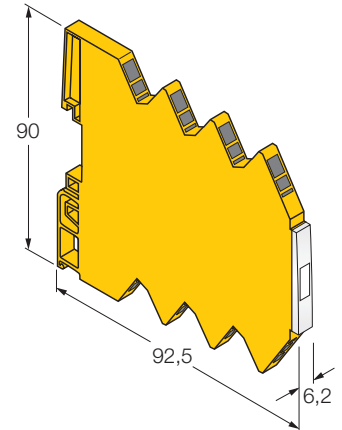
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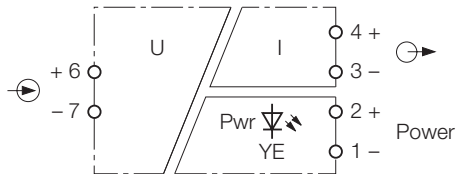
Das Gerät bietet bei einer Baubreite von 6,2 mm eine galvanische Trennung bis zu 1,5 kV.

- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter**
- **Input circuit 0...20mA**
- **Output signal 4...20mA**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

analogue signal transmitters
1-channel
IMS-AI-Li-Di/24VDC

Type	IMS-AI-Li-Di/24VDC
Ident-No.	7504007
Nominal voltage	
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Current input	
Current input	4-20 mA
Input resistance	100 Ω
Output circuits	
Output current	0...20 mA
Load resistance current output	≤ 0.4 kΩ
Limit frequency	
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	60 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions



Standard, active voltage signals are galvanically isolated, transmitted and converted to standard current signals via the 1-channel analog data transmitter IMS-AI-DU-LI/24VDC.

The input signals are linear converted from a dead-zero signal to a life-zero signal and transmitted to the output.

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a dead-zero signal to a life-zero signal and transmitted to the output.

A green LED indicates operational readiness.

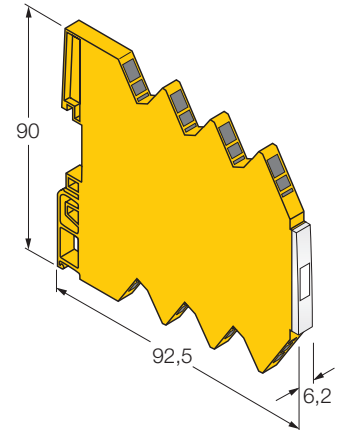
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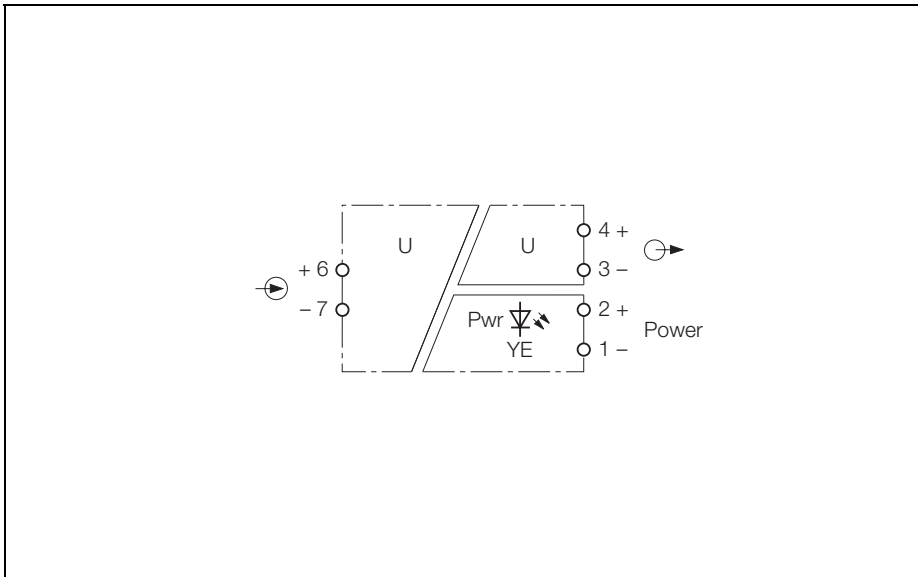
- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter**
- **Input circuit 0...10V**
- **Output signal 4...20mA**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

analogue signal transmitters
1-channel
IMS-AI-DU-Li/24VDC

Type	IMS-AI-DU-Li/24VDC
Ident-No.	7504002
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Voltage input	
Voltage	0...10 VDC
Input resistance	330 kΩ
Output circuits	
Output current	4...20 mA
Load resistance current output	≤ 0.4 kΩ
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	60 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions





Standard, isolated active voltage signals are transmitted via the 1-channel analog data transmitter IMS-AI-DU-DU/24VDC.

The device features one input circuit 0/2...10 V and one short-circuit protected output circuit 0/2...10 V. Input circuit, output circuit and supply voltage are each galvanically isolated.

The input signals are transmitted 1:1 to the output.

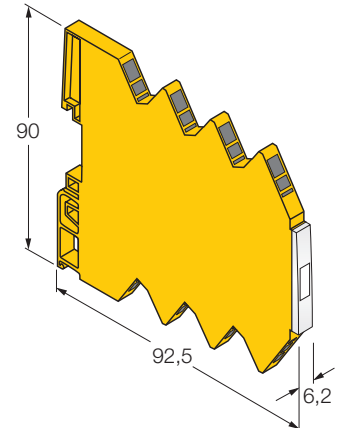
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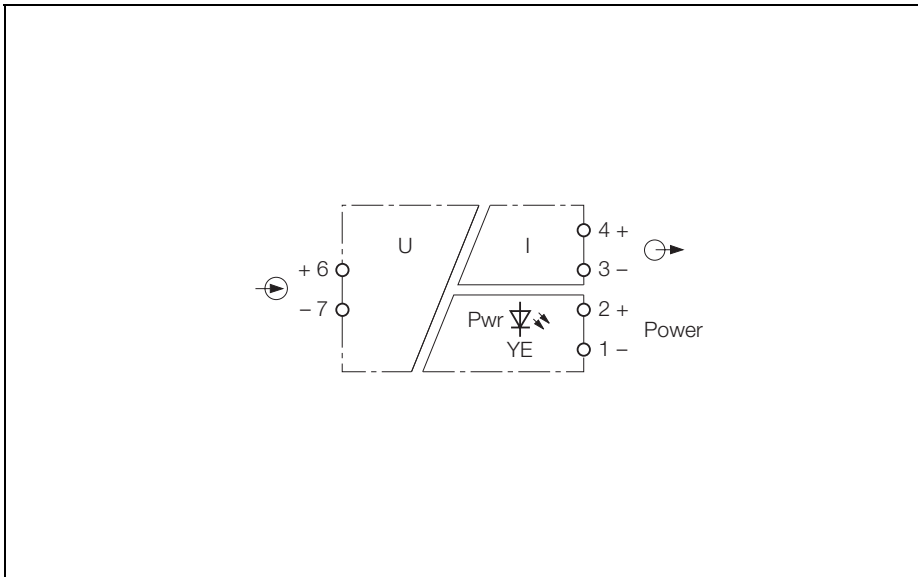
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- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter**
- **Input circuit 0...10V**
- **Output signal 0...10V**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

analogue signal transmitters
1-channel
IMS-AI-DU-DU/24VDC

Type	IMS-AI-DU-DU/24VDC
Ident-No.	7504000
Nominal voltage	
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Voltage input	
Voltage	0...10 VDC
Input resistance	330 kΩ
Output circuits	
Output voltage	0...10 VDC
Load resistance current output	≤ 0.055 kΩ
Limit frequency	
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	60 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions



Standard, active voltage signals are galvanically isolated, transmitted and converted to standard current signals via the 1-channel analog data transmitter IMS-AI-DU-DI/24VDC.

The device features one input circuit 0/2...10 V mA and one short-circuit protected output circuit 0/4... 20mA. Input circuit, output circuit and supply voltage are each galvanically isolated.

The input signals are linear converted and transmitted to the output.

A green LED indicates operational readiness.

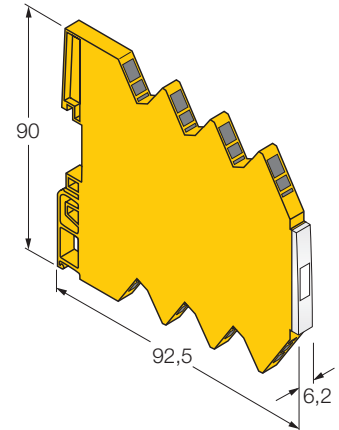
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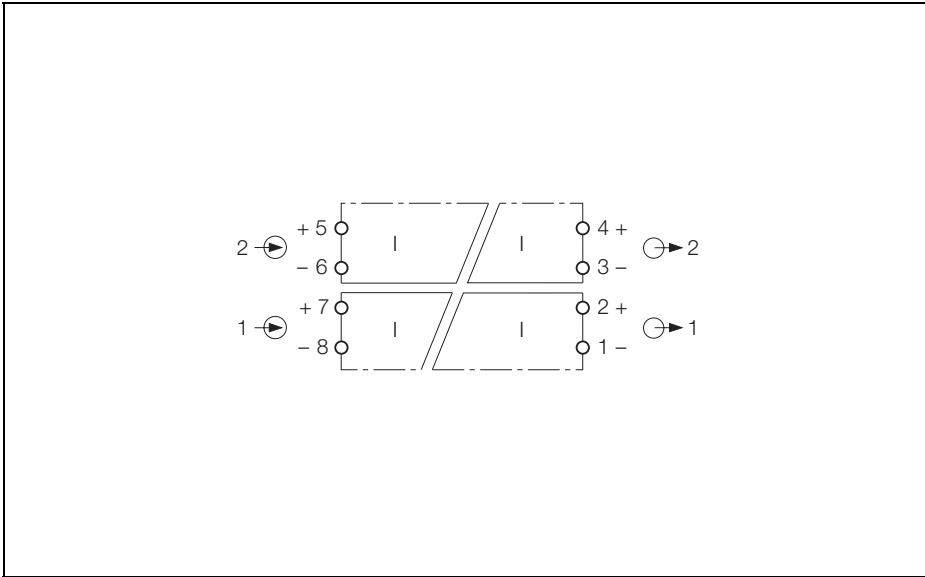
- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter**
- **Input circuit 4...10V**
- **Output signal 0...20mA**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

analogue signal transmitters
1-channel
IMS-AI-DU-Di/24VDC

Type	IMS-AI-DU-Di/24VDC
Ident-No.	7504001
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Voltage input	
Voltage	0...10 VDC
Input resistance	330 kΩ
Output circuits	
Output current	0...20 mA
Load resistance current output	≤ 0.4 kΩ
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	60 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions





Standard, isolated active voltage signals are galvanically isolated and transmitted via the 2-channel analog data transmitter IMS-AI-DLi-22-DLi/L.

The device features two input circuits 0/4...20 V mA and two short-circuit protected output circuits 0/4...20mA. Input circuits and output circuits are galvanically isolated. Moreover, each input circuit and each output circuit is galvanically isolated.

The device is loop powered, transmission starts with 250 μ A. Required minimum voltage 2.8 V + (20 mA \times R_{load}).

The input signals are transmitted 1:1 to the output.

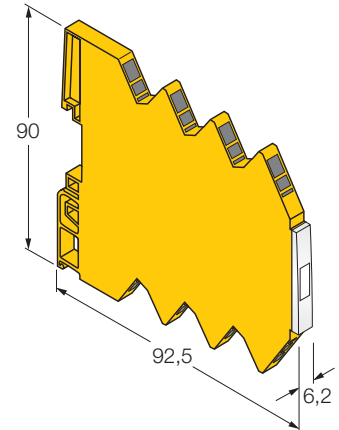
The device is loop-powered. Separate power supply is not necessary.

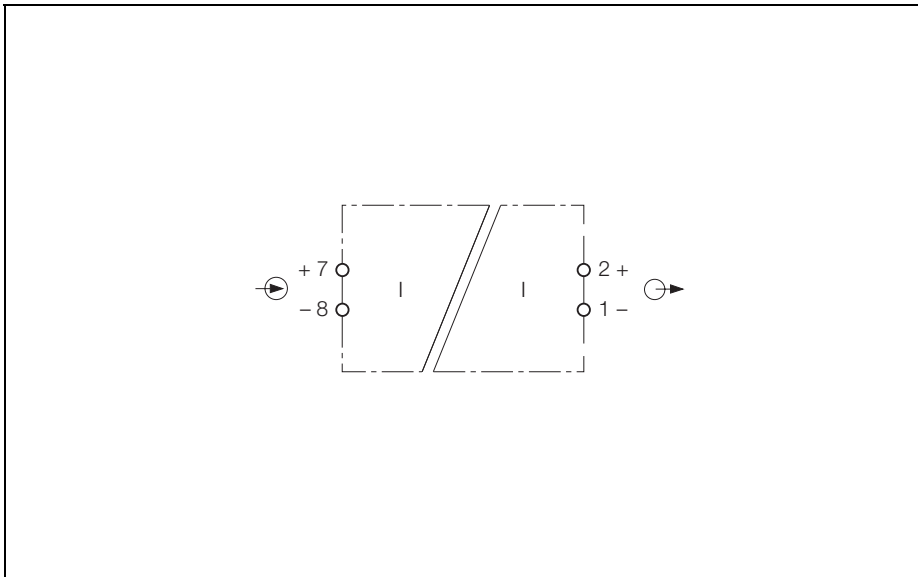
- **analogue signal transmitters**
- **6.2 mm width**
- **2-channel analogue signal transmitter**
- **Input circuit 0/4...20mA**
- **Output signal 0/4...20mA**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Loop-powered**
- **Galvanic isolation between input circuits and output circuits**

analogue signal transmitters
2-channel
IMS-AI-DLi-22-DLi/L

Type	IMS-AI-DLi-22-DLi/L
Ident-No.	7504011
Nominal voltage	Loop-powered
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Voltage input	max. 29 VDC
Current input	
Current input	0/4...20 mA
Input resistance	100 Ω
Output circuits	
Output current	0/4...20 mA
Load resistance current output	≤ 0.4 kΩ
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	60 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions





Standard, isolated active voltage or current signals are galvanically isolated and transmitted via the 1-channel analog data transmitter IMS-Ai-DLi-DLi/L..

The device features one input circuit 0/4...20 V mA and one short-circuit protected output circuit 0/4...20mA. Input circuit, output circuit and supply voltage are each galvanically isolated.

The device is loop powered, transmission starts with 250 μ A. Required minimum voltage 2.8 V + (20 mA \times R_{load}).

The input signals are transmitted 1:1 to the output.

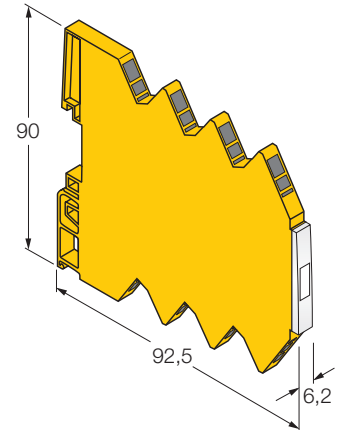
The device is loop-powered. Separate power supply is not necessary.

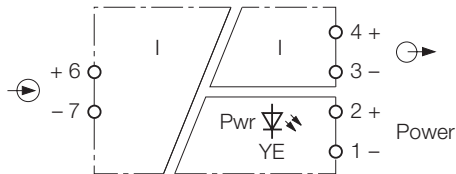
- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter**
- **Input circuit 0/4...20mA**
- **Output signal 0/4...20mA**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Loop-powered**
- **Galvanic isolation between input circuits and output circuits**

analogue signal transmitters
1-channel
IMS-AI-DLi-DLi/L

Type	IMS-AI-DLi-DLi/L
Ident-No.	7504010
Nominal voltage	Loop-powered
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Voltage input	max. 29 VDC
Current input	
Current input	0/4...20 mA
Input resistance	100 Ω
Output circuits	
Output current	0/4...20 mA
Load resistance current output	≤ 0.4 kΩ
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	57 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions





Standard, active voltage signals are galvanically isolated, transmitted and converted to standard current signals via the 1-channel analog data transmitter IMS-AI-DI-LI/24VDC.

The device features one input circuit 0...20 mA and one short-circuit protected output circuit 4...20 mA. Input circuit, output circuit and supply voltage are each galvanically isolated.

The input signals are linear converted from a dead-zero signal to a life-zero signal and transmitted to the output.

A green LED indicates operational readiness.

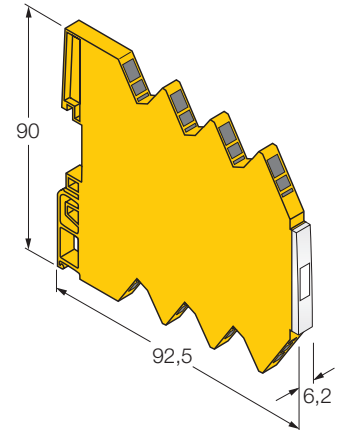
Das Gerät bietet bei einer Baubreite von 6,2 mm eine galvanische Trennung bis zu 1,5 kV.

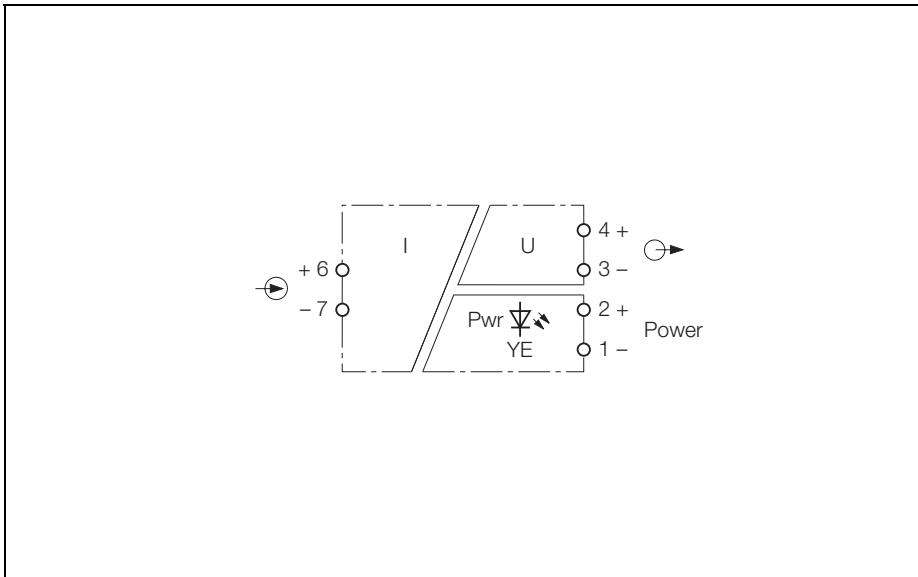
- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter**
- **Input circuit 0...20mA**
- **Output signal 4...20mA**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

analogue signal transmitters
1-channel
IMS-AI-Di-Li/24VDC

Type	IMS-AI-Di-Li/24VDC
Ident-No.	7504005
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Current input	
Current input	0-20 mA
Input resistance	100 Ω
Output circuits	
Output current	4...20 mA
Load resistance current output	≤ 0.4 kΩ
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	59 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions





Standard, active voltage signals are galvanically isolated, transmitted and converted to standard current signals via the 1-channel analog data transmitter IMS-AI-DI-DU/24VDC.

The device features one input circuit 0/4...20 mA and one short-circuit protected output circuit 0/2...10 V. Input circuit, output circuit and supply voltage are each galvanically isolated.

The input signals are linear converted and transmitted to the output.

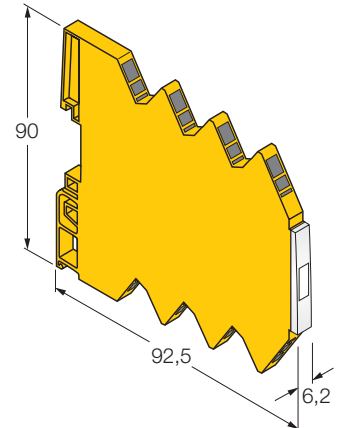
A green LED indicates operational readiness.

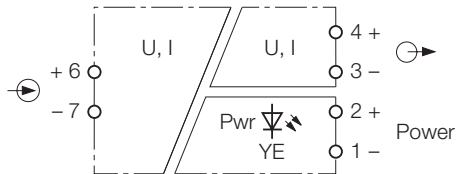
Das Gerät bietet bei einer Baubreite von 6,2 mm eine galvanische Trennung bis zu 1,5 kV.

- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter**
- **Input circuit 0...20mA**
- **Output signal 0...10V**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

analogue signal transmitters
1-channel
IMS-AI-Di-DU/24VDC

Type	IMS-AI-Di-DU/24VDC
Ident-No.	7504003
Nominal voltage	
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Current input	
Current input	0-20 mA
Input resistance	100 Ω
Output circuits	
Output voltage	0...10 VDC
Load resistance current output	≤ 0.055 kΩ
Limit frequency	
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	59 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions



Standard, active voltage or current signals are galvanically isolated, transmitted and converted to other signal types via the 1-channel universal analog data transmitter IMS-AI-UNI/24VDC.

The device is equipped with a variable input circuit of 0/4...20 V or 0/2...10 mA and a variable short-circuit protected output circuit of 0/4...20 mA or 0/2...10 V. Input circuit, output circuit and supply voltage are each galvanically isolated.

Input and output signal types can be selected via a lateral DIP switch matrix. According to the setting, the input signals are transmitted to the output.

A green LED indicates operational readiness.

Das Gerät bietet bei einer Baubreite von 6,2 mm eine galvanische Trennung bis zu 1,5 kV.

- **analogue signal transmitters**
- **6.2 mm width**
- **1-channel analogue signal transmitter, adjustable**
- **Input circuit 0/4...20mA**
- **Input circuit 0...10V**
- **Output signal 0/4...20mA**
- **Output signal 0...10V**
- **Linearity <0,1% of full scale**
- **Accuracy <0,1% of full scale**
- **Galvanic isolation of input circuits, output circuits and supply voltage**

analogue signal transmitters
1-channel
IMS-AI-UNI/24VDC

Type	IMS-AI-UNI/24VDC
Ident-No.	7504009
Nominal voltage	24 VDC
Operational voltage range:	19 ... 29 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Input circuits	
Voltage input	
Voltage	0/2...10 VDC
Input resistance	330 kΩ
Current input	
Current input	0/4...20 mA
Input resistance	100 Ω
Output circuits	
Output current	0/4...20 mA
Output voltage	0/2...10 VDC
Load resistance voltage output	≥ 0.055 kΩ
Load resistance current output	≤ 0.4 kΩ
Limit frequency	< 30 Hz
Rise time (10-90%)	10 ms
Dropout time (90...10%)	10 ms
Measuring accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % / K
Test voltage	1.5 kV
Constant voltage supply	50 V
Indication	
Operational readiness	green
Mechanical Data	
Degree of protection	IP20
Ambient temperature	-20 ...+ 60 °C
Housing length	92.5 mm
Housing width	6.2 mm
Housing height	90 mm
Weight	60 g
Mounting instruction	mounting on a DIN rail
Housing material	polycarbonate/ABS
Electrical connection	screw terminals
Terminal cross-section	2.5 mm ²

Dimensions

