



- 1-channel
- 24 V DC supply voltage
- 4 limit values
- Power Rail bus
- EMC acc. to NAMUR NE 21
- Connection of low resistant sources

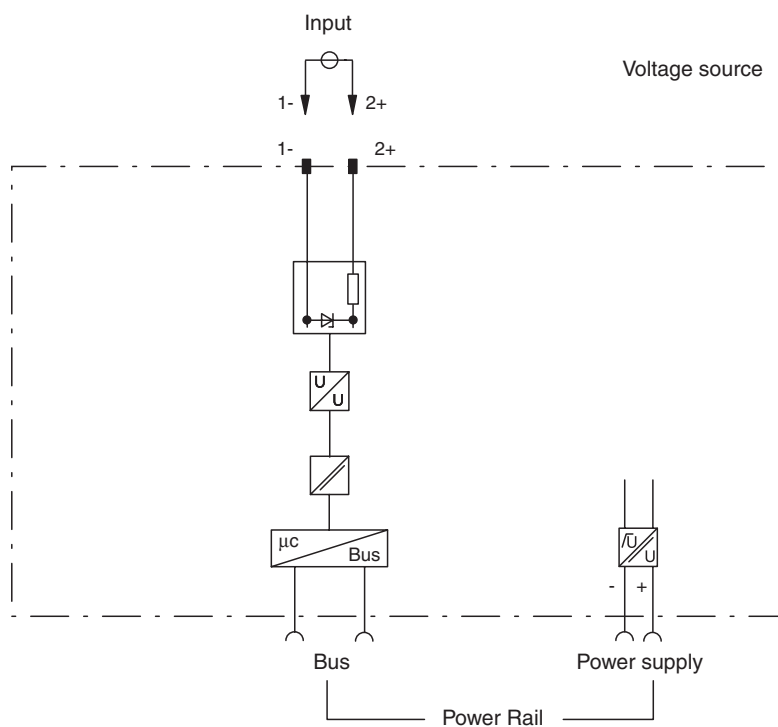
Function

The KSD2-MVI is suitable for the connection of analogue input signals with a voltage range 0 mV ... 50 mV. The measurement value is transferred in digital form to the programmable control system or to the programmable logic controller. The 4 limit values can also be set with the PC-programming software.

Application

Converter for analogue input voltages

Connection

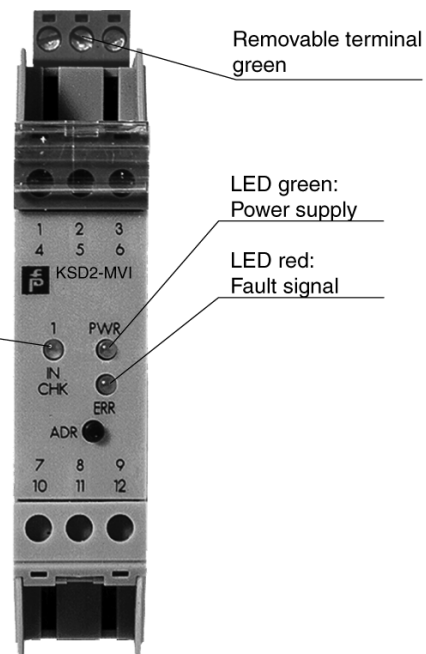


Composition

Front View

Housing type A3
(see system description)

LED yellow/red:
Input check



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Supply	
Connection	Power Rail
Rated voltage	20 ... 30 V DC
Ripple	< 10 %
Power loss	1 W
Power consumption	1 W
Input	
Connection	terminals 1, 2
Input signal	0 ... 50 mV
Input resistance	1 kΩ ... 2 kΩ
Output	
Connection	Power Rail
Interface	CAN protocol via Power Rail bus
Transfer characteristics	
Deviation	0.5 % input signal range at 20 °C (293 K)
Influence of ambient temperature	0.05 %/K of input signal range
Electrical isolation	
Input/power supply, internal bus	basic insulation according to EN 50178, rated insulation voltage 300 V _{eff}
Directive conformity	
Electromagnetic compatibility	
Directive 89/336/EC	EN 61326
Standard conformity	
Electrical isolation	EN 50178
Electromagnetic compatibility	NE 21
Protection degree	IEC 60529
Climatic conditions	IEC 60721
Ambient conditions	
Ambient temperature	-20 ... 60 °C (253 ... 333 K)
Damaging gas	acc. to ISA-S71.04-1985, severity level G3
Mechanical specifications	
Protection degree	IP20
Connection	terminal connection ≤ 2.5 mm ²
Mass	approx. 100 g
Dimensions	20 x 100 x 115 mm (0.8 x 3.9 x 4.5 in)
Mounting	DIN rail mounting

Notes

Software functions

Adjustable by the **PACTware™** human machine interface:

- TAG numbers, 28 alphanumeric characters, can be programmed into device
- Commentary, may be saved in PC memory
- Information on devices may be saved in PC memory
- Physical units are adjustable
 - list see system description RPI
- 4 limit values
 - upper alarm level limit
 - upper warn level limit
 - lower alarm level limit
 - lower warn level limit
 - hysteresis adjustable
- Lower scale value and upper scale value of the measurement range
 - for the determination the overflow and underflow range
 - for the configuration of the analogue monitor of the human machine interface
- Overrange and underrange alarm
- Malfunction output status
 - user defined
 - min.
 - max.
 - hold last value
- Simulation
 - of the input value
 - of the device diagnosis
 - of the process channel diagnosis

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