

Features

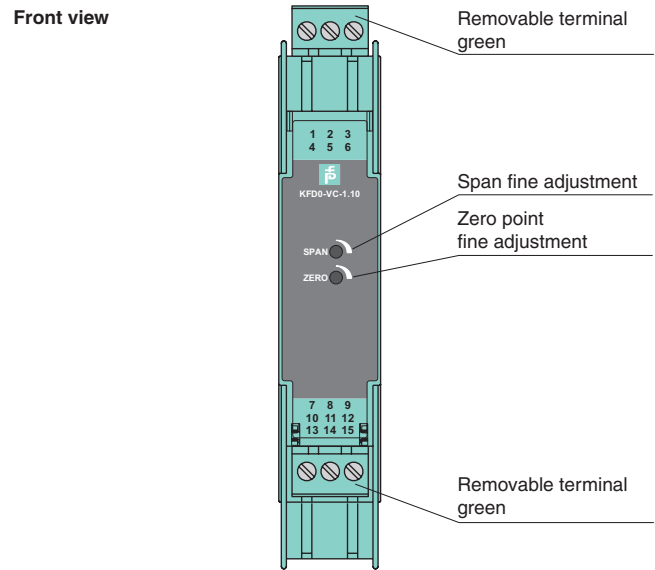
- 1-channel signal conditioner
- 24 V DC supply (loop powered)
- Voltage input -10 V ... 10 V
- Output 4 mA ... 20 mA
- Span and zero point adjustment

Function

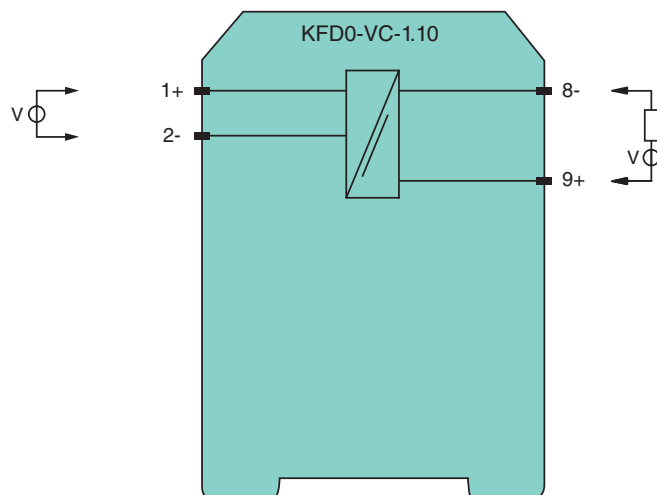
This signal conditioner receives a -10 V ... 10 V voltage input, produces a 4 mA ... 20 mA signal output. It also provides isolation for non-intrinsically safe applications.

Fine adjustment for zero and span are performed with the potentiometers on top of the unit.

Assembly



Connection



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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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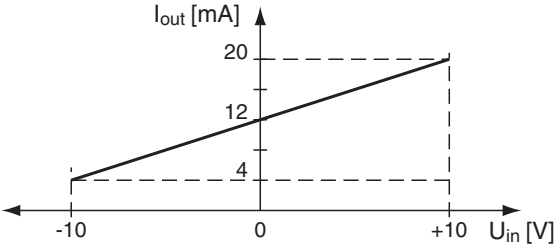
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General specifications		
Signal type		Analog input
Supply		
Rated voltage	U_n	12 ... 35 V DC loop powered
Power loss		0.4 W
Input		
Connection		terminals 1+, 2-
Voltage range		-10 ... 10 V (factory adjustment)
Load		$\geq 100 \text{ k}\Omega$
Output		
Connection		terminals 9+, 8-
Load		$\leq (\text{supply voltage} - 12 \text{ V}) / 0.02 \text{ A}$
Current output		4 ... 20 mA , limited to $\leq 35 \text{ mA}$
Transfer characteristics		
Measurement range	f_n	-10 ... +10 V, zero point $\pm 1 \%$ of full-scale value, span $\pm 1.5 \%$ of full-scale value
Deviation		
After calibration		0.1 % of full-scale value
Temperature effect		span: 0.050 % of span /K zero point: 0.060 % of span /K
Linearization		$\leq 0.04 \%$ of full-scale value
Influence of supply voltage		6.5 ppm/V
Rise time		250 ms
Electrical isolation		
Input/Output		Basic insulation according to EN 50178, rated insulation voltage 253 V _{eff}
Directive conformity		
Electromagnetic compatibility		
Directive 2004/108/EC		EN 61326-1:2006
Conformity		
Insulation coordination		EN 50178
Electrical isolation		EN 50178
Electromagnetic compatibility		NE 21
Degree of protection		IEC 60529
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications		
Degree of protection		IP20
Mass		approx. 100 g
Dimensions		20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2
General information		
Supplementary information		Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

Configuration

Adjustment instruction (example):

- Input signal -10 V ... +10 V
 Output signal 4 mA ... 20 mA
1. Minimum value -10 V at the input.
 2. Adjust output, zero point minimum (4 mA).
 3. Maximum value +10 V.
 4. Adjust output, span maximum value (20 mA).
- Repeat steps 1. ... 4.



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