Features

- 1-channel signal conditioner
- Universal usage at different power supplies
- Scaleable current or voltage input
- Current or voltage output
- Relay contact output
- Configurable by keypad
- Line fault detection (LFD)

Function

This signal conditioner is suitable for the connection of current and voltage signals and provides isolation for non-intrinsically safe applications.

The input ranges include 0 mA ... 20 mA, 0 V ... 10 V or 0 mV ... 60 mV. Subranges from the input ranges are selectable.

The output measuring signals are 0/4 mA ... 20 mA, 0/2 V ... 10 V or 0/1 V ... 5 V.

The output relay serves as trip value contact.

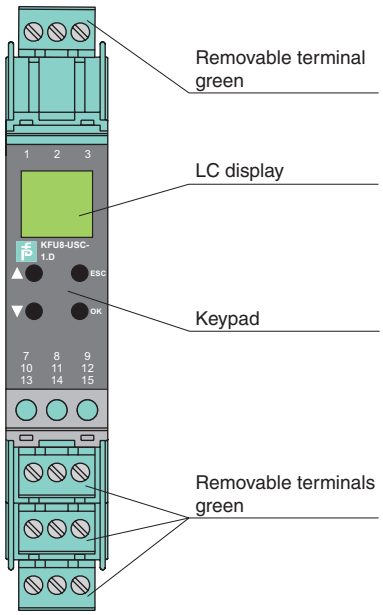
On the display the measured value can be indicated in various physical units.

The unit is easily programmed by the use of a keypad located on the front of the unit.

For additional information, refer to the manual and www.pepperl-fuchs.com.

Assembly

Front view



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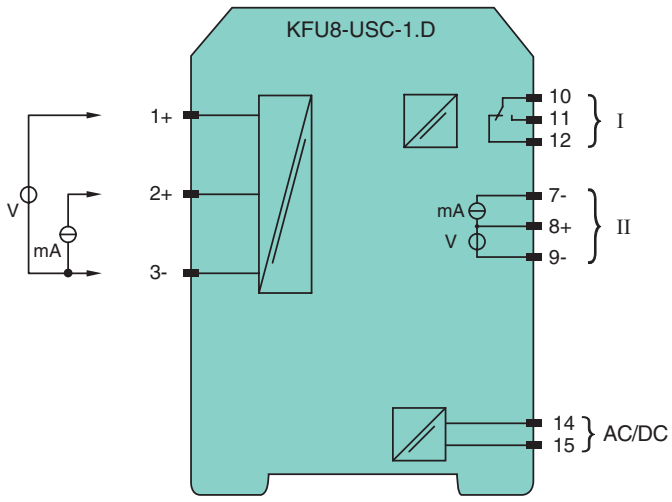
Connection



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General specifications		
Signal type		Analog input
Supply		
Connection		terminals 14, 15
Rated voltage	U_n	20 ... 90 V DC / 48 ... 253 V AC
Rated current	I_n	≤ 80 mA DC / ≤ 45 mA AC
Power consumption		≤ 1.6 W / ≤ 2.6 VA
Input		
Connection		terminals 1+, 3- : mV, V ; terminals 2+, 3- : mA
Input resistance		voltage: 1 MΩ , current: ≤ 100 Ω
Limit		30 V
Current		0 ... 20 mA
Voltage		0 ... 10 V / 0 ... 60 mV
Resolution		15 Bit
Output		
Connection		output I: terminals 10, 11, 12 output II: terminals 7-, 8+, 9-
Output I		signal, relay
Contact loading		250 V AC/2 A/cos ϕ 0.7; 40 V DC/2 A
Mechanical life		2 x 10^7 switching cycles
Energized/De-energized delay		approx. 10 ms / approx. 10 ms
Output II		analog
Load		current: ≤ 550 Ω , voltage: ≥ 1 kΩ
Analog voltage output		0/1 ... 5 V , 0/2 ... 10 V
Analog current output		0/4 ... 20 mA
Transfer characteristics		
Deviation		0.1 % of full-scale value
Resolution/accuracy		current: 1 µA/20 µA voltage: 0.5 mV/10 mV mV: 3 µV/60 µV
Influence of ambient temperature		0.003 %/K (30 ppm)
Reaction time		≥ 150 ms/≤ 300 ms
Electrical isolation		
Input/Output		reinforced insulation according to IEC 61140, rated insulation voltage 300 V_{eff}
Input/power supply		reinforced insulation according to IEC 61140, rated insulation voltage 300 V_{eff}
Output/power supply		reinforced insulation according to IEC 61140, rated insulation voltage 300 V_{eff}
Directive conformity		
Electromagnetic compatibility		
Directive 2004/108/EC		EN 61326-1:2006
Low voltage		
Directive 2006/95/EC		EN 50178:1997
Conformity		
Electromagnetic compatibility		NE 21
Degree of protection		IEC 60529
Protection against electrical shock		IEC 61140
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications		
Degree of protection		IP20
Mass		150 g
Dimensions		20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B3
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.

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