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

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

The output relay serves as trip value contact.

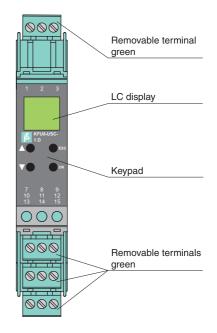
On the display the measured value can be indicated in various physical units.

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.

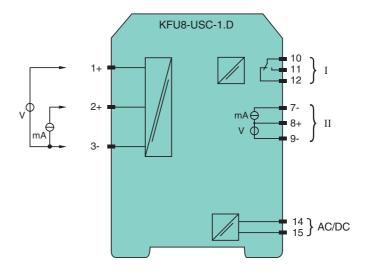
Assembly

Front view



 ϵ

Connection



General specifications	
•	Angled input
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	\leq 80 mA DC / \leq 45 mA AC
Power consumption	$\leq 1.6 \text{W} / \leq 2.6 \text{VA}$
Input	
Connection	terminals 1+, 3-: mV, V; terminals 2+, 3-: mA
Input resistance	voltage: 1 M Ω , current: \leq 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: \leq 550 Ω , voltage: \geq 1 k Ω
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	Tollinorood modulation according to 120 of 110, rated modulation voltage coc verification
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1:2006
Low voltage	LN 01020-1.2000
•	EN 50179-1007
Directive 2006/95/EC	EN 50178:1997
Conformity	NE 04
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.

