

Features

- 1-channel signal conditioner
- Universal usage at different power supplies
- Input 2-wire and 3-wire transmitters, current and voltage sources
- Current and voltage output

Function

This signal conditioner provides the isolation for non-intrinsically safe applications.

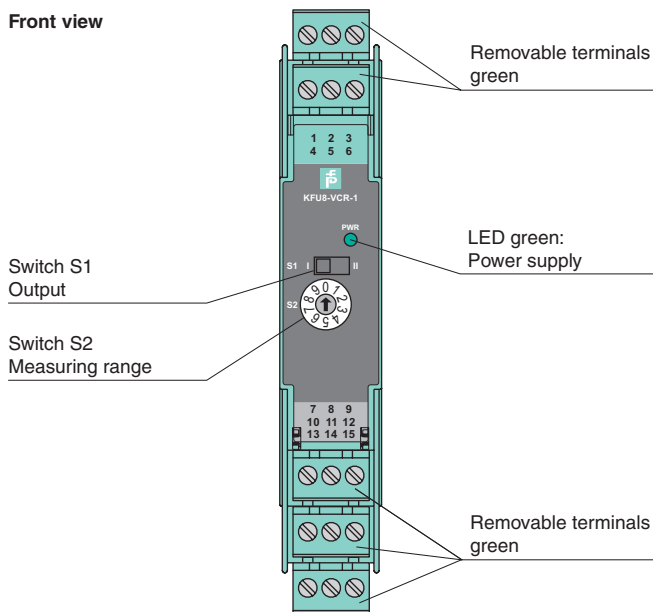
The device supplies 2-wire and 3-wire transmitters, and can also be used with current and voltage sources.

The input ranges include 0/4 mA ... 20 mA or 0/2 V ... 10 V.

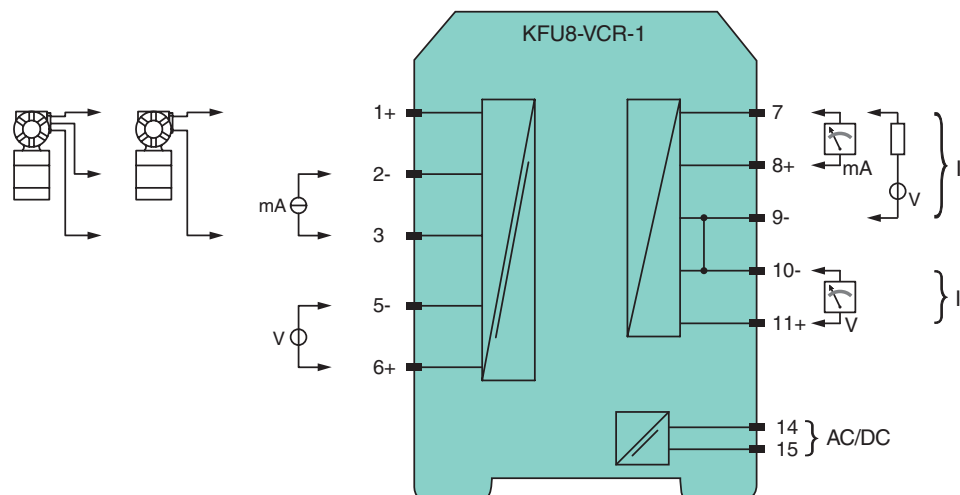
At the output the signal is available as 0/4 mA ... 20 mA or 0/2 V ... 10 V.

Output and measuring range are selected by switches located on the front of the device.

Assembly



Connection

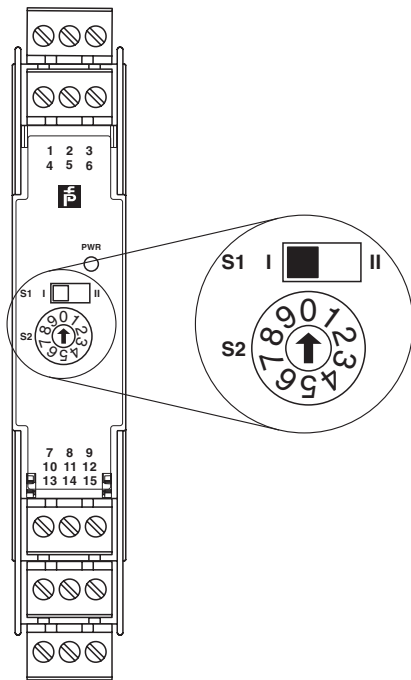


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General specifications		
Signal type		Analog input
Supply		
Connection		terminals 14, 15
Rated voltage	U_n	19 ... 90 V DC / 48 ... 253 V AC
Rated current	I_n	≤ 110 mA DC / ≤ 75 mA AC
Power loss		1.3 W
Power consumption		2.1 W
Input		
Input I		
Connection		terminals 1+, 2-, 3
Input signal		0/4 ... 20 mA
Available voltage		> 15 V at 20 mA , terminals 1+, 3-
Open circuit voltage/short-circuit current		21 V / 26 mA , terminals 1+, 3-
Input resistance		< 55 Ω , terminals 2-, 3+
Input II		
Connection		terminals 5-, 6+
Input signal		0/2 ... 10 V
Input resistance		> 1 M Ω
Output		
Output I		
Connection		source: terminals 7(-), 8(+) sink: terminals 7(+), 9(-)
Output signal		0/4 ... 20 mA
Source		load 0 ... 750 Ω open circuit voltage < 21 V
Sink		voltage across terminals 5 ... 30 V
Output II		
Connection		terminals 10-, 11+
Output signal		0/2 ... 10 V
Load		≥ 10 k Ω
Transfer characteristics		
Deviation		
Resolution/accuracy		S1 in position I: 7 μ A/40 μ A (0.2 %) S1 in position II: 3.5 mV/20 mV (0.2 %)
Influence of ambient temperature		0.01 % / K of output signal range
Reaction time		150 ms
Electrical isolation		
Input/Output		functional insulation acc. to IEC 62103, rated insulation voltage 100 V _{rms}
Input/power supply		reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}
Output/power supply		reinforced insulation according to IEC/EN 61010-1, 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 61010-1:2010
Conformity		
Electromagnetic compatibility		NE 21:2006
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		approx. 150 g
Dimensions		20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
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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Configuration



Switch S1 (output)

Position	Signal
I	Current output
II	Voltage output

Switch S2 (measuring range)

Position	Input	Output I	Output II
0	4 mA ... 20 mA	4 mA ... 20 mA	2 V ... 10 V
1	4 mA ... 20 mA	0 mA ... 20 mA	0 V ... 10 V
2	0 mA ... 20 mA	4 mA ... 20 mA	2 V ... 10 V
3	0 mA ... 20 mA	0 mA ... 20 mA	0 V ... 10 V
4	2 V ... 10 V	4 mA ... 20 mA	2 V ... 10 V
5	2 V ... 10 V	0 mA ... 20 mA	0 V ... 10 V
6	0 V ... 10 V	4 mA ... 20 mA	2 V ... 10 V
7	0 V ... 10 V	0 mA ... 20 mA	0 V ... 10 V
8	not used		
9	not used		

Factory settings: switch S1 in position I
 switch S2 in position 3