## Features

- · 1-channel signal conditioner
- AC/DC wide range supply
- · 2-wire transmitters or current sources
- Output 0/4 mA ... 20 mA
- · 2 relay contact outputs
- · Programmable high/low alarm
- Configurable by PACTware<sup>™</sup> or ke ypad
- Line fault detection (LFD)
- Up to SIL2 acc. to IEC 61508

## Function

This isolated signal conditioner is used in non hazardous area applications. It is suitable for a variety of measuring tasks.

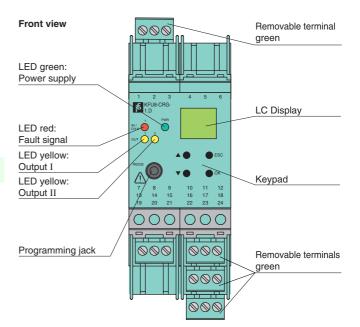
Active power supplies as well as 2-wire transmitters can be connected. Two relays and an active 0/4 mA ... 20 mA current source are available as outputs.

The relay contacts and the current output can be integrated in security-relevant circuits. The trip values of the relays are derived from the transmitter signal or the signal of a connected power source. The current output is easily scaled. The input has lead breakage and short circuit monitoring.

The unit is easily programmed by the use of a keypad located on the front of the unit or with the **PACT***ware*<sup>™</sup> configuration software.

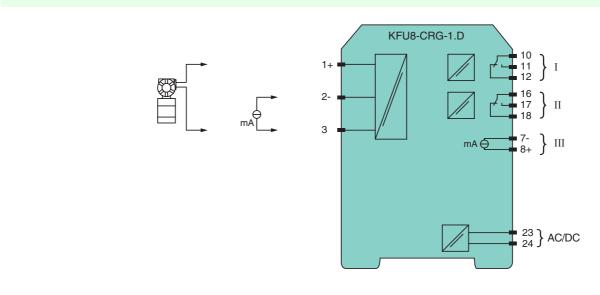
For additional information, refer to the manual and www.pepperl-fuchs.com.





SIL<sub>2</sub>

## Connection



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Supply	
Connection	terminals 23, 24
Rated voltage	20 90 V DC or 48 253 V AC
Power loss	2 W / 3 VA
Power consumption	2.2 W / 4 VA
Input	
Connection	terminals 1, 2, 3
Input I	
Input signal	0 20 mA or 4 20 mA
Available voltage	> 15 V at 20 mA
Open-circuit voltage/short-circuit current	24 V / 33 mA
Input resistance	45 $\Omega$ (terminals 2, 3)
Lead monitoring	breakage I < 0.2 mA; short-circuit I > 22 mA acc. to NAMUR NE43
Output	
Connection	output I: terminals 10, 11, 12 output II: terminals 16, 17, 18 output: analogue, terminals 8+, 7-
Output signal	0 20 mA or 4 20 mA
Output I, II	signal, relay
Contact loading	250 V AC / 2 A / $\cos \phi \ge 0.7$ ; 40 V DC / 2 A
Mechanical life	5 x 10 <sup>7</sup> switching cycles
Energized/de-energized delay	approx. 20 ms / approx. 20 ms
Output III	signal, analogue
Current range	0 20 mA or 4 20 mA
Open loop voltage	≤ 24 V DC
Load	$\leq$ 650 $\Omega$
Fault signal	downscale I $\leq$ 3.6 mA, upscale I $\geq$ 21.5 mA (acc. NAMUR NE43)
Transfer characteristics	
Input I	
Accuracy	< 30 µA
Measuring time	< 100 ms
Influence of ambient temperature	0.003 %/°C (30 ppm)
Output III	
Resolution	≤ 10 μA
Accuracy	< 20 µA
Influence of ambient temperature	0.005 %/°C (50 ppm)
Electrical isolation	
Input/other circuits	safe electrical isolation acc. to EN 50178, voltage peak value 375 V
Output I, II/other circuits	reinforced insulation acc. to IEC 61140, rated insulation voltage 300 V <sub>eff</sub>
Mutual output I, II, III	reinforced insulation acc. to IEC 61140, rated insulation voltage 300 V <sub>eff</sub>
Output III/power supply	reinforced insulation acc. to IEC 61140, rated insulation voltage 300 V <sub>eff</sub>
Interface/power supply	reinforced insulation acc. to IEC 61140, rated insulation voltage 300 V <sub>eff</sub>
Directive conformity	
Electromagnetic compatibility	
Directive 89/336/EC	EN 50081-2, EN 50082-2
Conformity	
Insulation coordination	EN 50178
Electrical isolation	EN 50178
Protection degree	IEC 60529
Input	EN 60947-5-6
Ambient conditions	
Ambient temperature	-20 60 °C (253 333 K)
Mechanical specifications	
Protection degree	IP20
Mass	300 g
Dimensions	40 x 119 x 115 mm (1.6 x 4.7 x 4.5 in) , housing type C3
General information	
Supplementary information	Statement of Conformity, Declaration of Conformity and instructions have to be observed where applicable.
•	For information see www.pepperl-fuchs.com.

Subject to reasonable modifications due to technical advances.

# Accessories

**PACT***ware*<sup>™</sup> Device-specific drivers (DTM)

#### Adapter K-ADP1

Programming adapter for parameterisation via the serial RS 232 interface of a PC/Notebook

For programming, please use the new version of adapter K-ADP1 (part no. 181953, connector length 14mm). When using the previous version K-ADP1 (connector length 18 mm) the plug is exposed by approx. 3 mm. The function is not affected.

### Adapter K-ADP-USB

Programming adapter for parameterisation via the serial USB interface of a PC/Notebook