



- 1-channel
- Control circuit EEx ia IIC
- 230 V AC supply voltage
- Reversible mode of operation
- Lead breakage (LB) monitoring
- 1 relay output with 1 changeover contact

**WE 77/Ex-1**

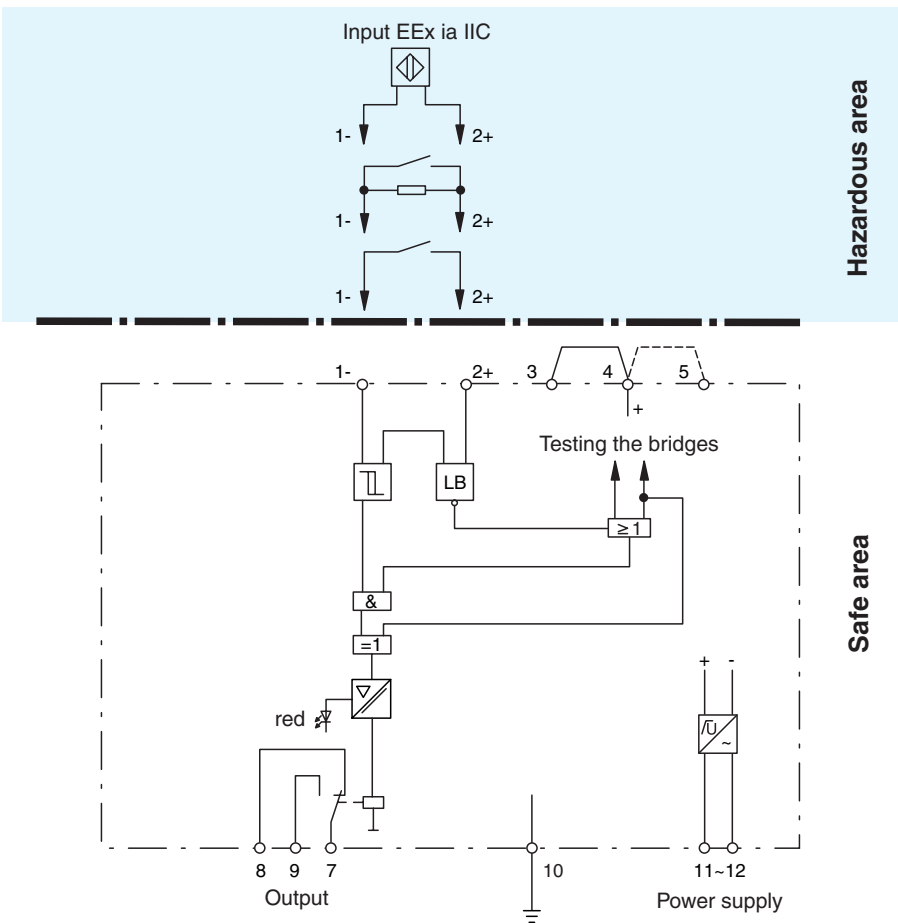
For new installations use standard type KFA6-SR2-Ex1.W.

**Function**

The transformer isolated barrier transfers digital signals into hazardous areas. Sensors per EN 60947-5-6 (NAMUR) or mechanical contacts may be used as transmitters.

The control circuit is monitored for lead breakage (LB).

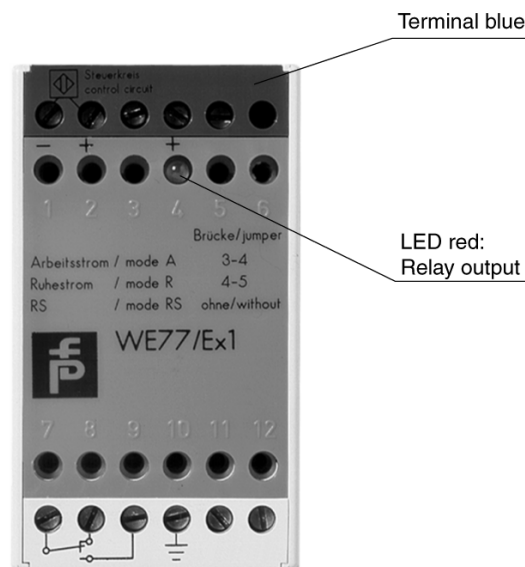
**Connection**



**Composition**

**Front View**

Housing type W1  
(see system description)



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<b>Supply</b>	
Connection	terminals 11, 12
Rated voltage	198 ... 253 V AC ; 45 ... 65 Hz
Power consumption	approx. 3.5 VA
<b>Input</b>	
Connection	terminals 1-, 2+
Rated values	acc. to EN 60947-5-6 (NAMUR), see system description for electrical data
Pulse/Pause ratio	≥ 0.5 ms / ≥ 0.5 ms
Lead monitoring	breakage I ≤ 0.1 mA
<b>Output</b>	
Connection	terminals 7, 8, 9
Output	signal ; Relay , non-intrinsically safe
Contact loading	250 V AC/4 A/500 VA/cos φ > 0.7 220 V DC/0.1 A; 60 V DC/0.6; 24 V DC/4 A
Energized/De-energized delay	approx. 10 ms / approx. 20 ms
Mechanical life	10 <sup>7</sup> switching cycles
<b>Transfer characteristics</b>	
Switching frequency	< 10 Hz
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 60 °C (248 ... 333 K)
<b>Mechanical specifications</b>	
Mass	approx. 390 g
Dimensions	40 x 104 x 110 mm (1.6 x 4.1 x 4.3 in)
<b>Data for application in conjunction with hazardous areas</b>	
EC-Type Examination Certificate	PTB No. Ex-79/2043X , for additional certificates see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>
Voltage U <sub>0</sub>	13.5 V DC
Current I <sub>0</sub>	31 mA
Power P <sub>0</sub>	125 mW
Type of protection [EEx ia]	
Explosion group	IIB IIC
External capacitance	0.929 μF 0.23 μF
External inductance	5 mH 3 mH
Type of protection [EEx ib]	
Explosion group	IIB IIC
External capacitance	2.929 μF 0.609 μF
External inductance	115 mH 31 mH

**Supplementary information**

EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed. For information see [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).

**Notes**

Table operating mode see introduction WE-system.

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