Safe area





- 2-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 per channel

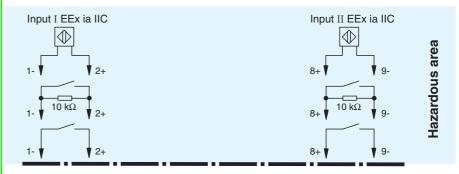
WE 77/Ex-2 230V

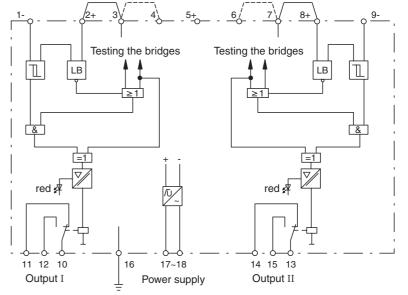
Function

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.

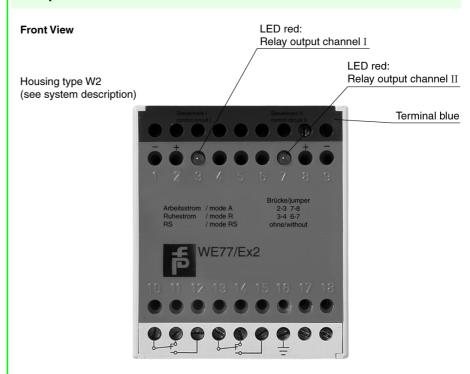
The control circuit is monitored for lead breakage (LB).

Connection





Composition



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Rated voltage U_n Power dissipation

Power consumption

Open circuit voltage/short-circuit current

Switching point/switching hysteresis

Energized/De-energized delay

Transfer characteristics

Directive 2014/35/EU

Switching frequency **Electrical isolation** Output/power supply

Supply Connection

Input Connection

Output Connection

Output

Rated values

Pulse/Pause ratio

Line fault detection

Contact loading

Mechanical life

Output/Output

Directive conformity

Electromagnetic compatibility

Directive 2014/30/EU

Low voltage

ConformityDegree of protection

terminals 17, 18

approx. 3.2 VA

terminals 1-, 2+; 8+, 9-

 \geq 0.5 ms / \geq 0.5 ms

breakage I ≤ 0.1 mA

signal: relav

< 10 Hz

EN 61010-1:2010

IEC 60529

2.5 W

198 ... 253 V AC ; 45 ... 65 Hz

approx. 8 V DC / approx. 8 mA

1.2 ... 2.1 mA / approx. 0.2 mA

terminals 10, 11, 12; 13, 14, 15

approx. 10 ms / approx. 20 ms 10^7 switching cycles

EN 61326-1:2013 (industrial locations)

acc. to EN 60947-5-6 (NAMUR), see system description for electrical data

basic insulation according to IEC 61140, rated insulation voltage 300 $V_{\rm eff}$ functional insulation acc. to EN 50178, rated insulation voltage 300 $V_{\rm eff}$

Technical data WE 77/Ex-2 230V

Mode of Operation

Mode of operation without lead breakage detection

Jumpers	Input	Output
Jumpers between terminals 3 and 4, terminals 6 and 7	0-Signal	Relay energized
Jumpers between terminals 3 and 4, terminals 6 and 7	1-Signal	Relay de-energized
Jumpers between terminals 2 and 3, terminals 7 and 8		Relay enegized
	1-Signal	riciay chegized
Jumpers between terminals 2 and 3, terminals 7 and 8		-
	0-Signal	Relay de-energized

Mode of operation with lead breakage detection

Jumpers	Input	Output
Without jumpers	10 κΩ	++1
	0-Signal	Relay energized
Without jumpers	10 kΩ	- #
	1-Signal	Relay de-energized
Without jumpers	10 κΩ	
	0-Signal	Relay de-energized
Without jumpers	10 κΩ	
	1-Signal	Relay de-energized