



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

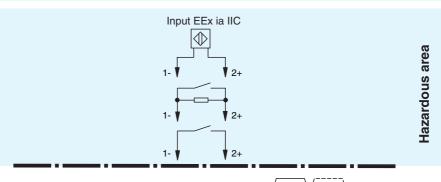
## WE 77/Ex-1 115V

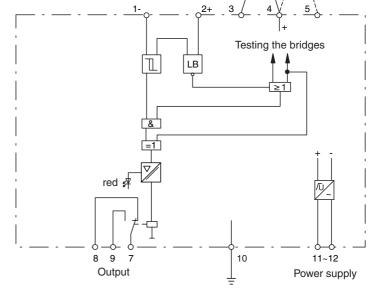
## **Function**

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

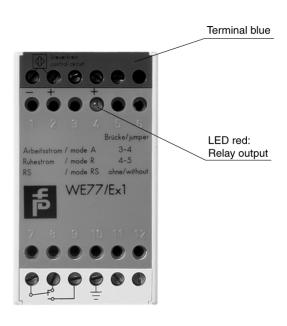




### Composition

#### **Front View**

Housing type W1 (see system description)



Supply

Input Connection

Output Connection

Output

Rated values

Pulse/Pause ratio

Line fault detection

Contact loading

Mechanical life

Output/Output

Directive conformity

Electromagnetic compatibility

Directive 2004/108/EC

Low voltage

**Conformity**Degree of protection

Connection

Rated voltage U<sub>n</sub> Power loss

Power consumption

Open circuit voltage/short-circuit current

Switching point/switching hysteresis

Energized/De-energized delay

**Transfer characteristics** 

Directive 2006/95/EC

**Ambient conditions** 

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

terminals 11, 12

approx. 2.3 VA

terminals 1-, 2+

 $\geq$  0.5 ms /  $\geq$  0.5 ms

breakage I ≤ 0.1 mA

10<sup>7</sup> switching cycles

EN 61326-1:2006

FN 50178:1997

IEC 60529

terminals 7, 8, 9

signal: relav

< 10 Hz

1.6 W

103.5 ... 126 V AC , 45 ... 65 Hz

approx. 8 V DC / approx. 8 mA

1.2 ... 2.1 mA / approx. 0.2 mA

approx. 10 ms / approx. 20 ms

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  $V_{\rm eff}$ 

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Technical data WE 77/Ex-1 115V

# **Mode of Operation**

# Mode of operation without lead breakage detection

Jumpers	Input	Output
Jumpers between terminals 4 and 5		++
	0-Signal	Relay energized
Jumpers between terminals 4 and 5		<del> - </del>
	1-Signal	Relay de-energized
Jumpers between terminals 3 and 4		<del>+</del> + 1
	1-Signal	Relay enegized
Jumpers between terminals 3 and 4		<del> </del>
	0-Signal	Relay de-energized

## Mode of operation with lead breakage detection

Jumpers	Input	Output
Without jumpers	10 κΩ	<b>₽</b> ₹¹
	0-Signal	Relay energized
Wichout jumpers	10 κΩ	<del>+</del> -#
	1-Signal	Relay de-energized
Wichout jumpers	10 KΩ	<del>-</del>
	0-Signal	Relay de-energized
Without jumpers	10 κΩ	<del>-</del>
	1-Signal	Relay de-energized