



- 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

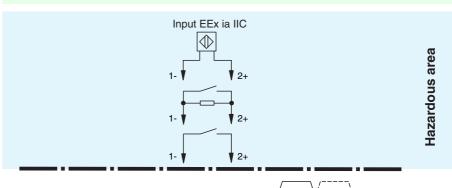
WE 77/Ex-1 115V

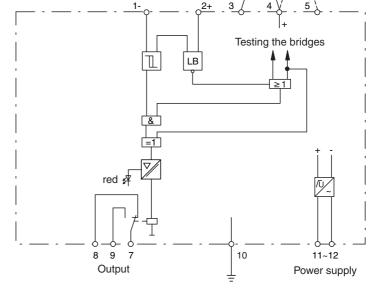
Function

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

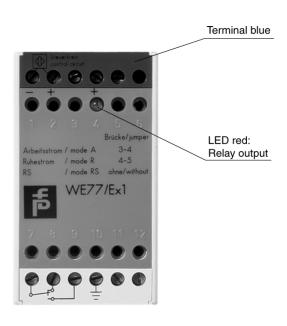




Composition

Front View

Housing type W1 (see system description)



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

Ambient conditions

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 11, 12

approx. 2.3 VA

terminals 1-, 2+

 \geq 0.5 ms / \geq 0.5 ms

breakage I ≤ 0.1 mA

10⁷ switching cycles

EN 61010-1:2010

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

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_{eff} functional insulation acc. to EN 50178, rated insulation voltage 300 V_{eff}

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		-
	1-Signal	Relay de-energized
Jumpers between terminals 3 and 4		+ + 1
	1-Signal	Relay enegized
Jumpers between terminals 3 and 4		├ -#
	0-Signal	Relay de-energized

Mode of operation with lead breakage detection

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