## **Features**

- 4-channel
- Installation in Zone 2, Zone 22, or safe area
- On/Off delay
- Positive or negative logic selectable
- Simulation mode for service operations (forcing)
- · Permanently self-monitoring
- · Output with watchdog
- · Module can be exchanged under voltage

## **Function**

The relay output features 4 independent channels.

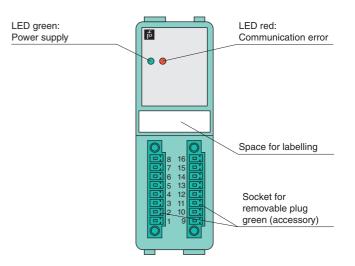
The relay output can be used to switch solenoids, sounders, or lamps.

It can also perform general switching operations, e.g. to switch auxiliary power circuits.

The outputs are galvanically isolated from the bus and the power supply (EN 61010-1).

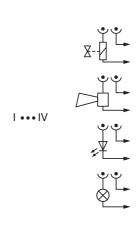
# **Assembly**

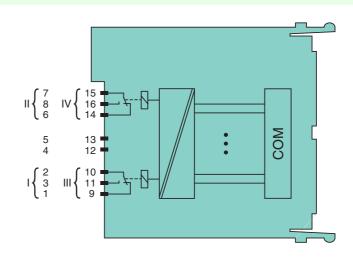
#### Front view





## Connection





Zone 2

_	
Supply	
Connection	backplane bus
Rated voltage	U <sub>n</sub> 12 V DC , only in connection with the power supplies LB9***
Power consumption	1.2 W
Internal bus	
Connection	backplane bus
Interface	manufacturer-specific bus to standard com unit
Output	
Number of channels	4
Connection	channel I: 1-2 NC, 3; channel II: 6-7 NC, 8; channel III: 9-10 NC, 11; channel IV: 14-15 NC, 16
Minimum load	1 V , 1 mA
Relay	1 7 , 1 1110
•	DC: 00 V AC: 000 V C0 V (III )
Switching voltage	DC: 30 V , AC: 230 V , 60 V (UL)
Switching current	1 A DC / AC resistive load
Switching power	30 W , 250 VA , 60 W (UL)
Electrical life	0.1 mio. cycles
Response time	20 ms (depending on bus cycle time)
Contact Material	AgPd gold plated
Watchdog	within 0.5 s the device goes in safe state, e.g. after loss of communication
Indicators/settings	
LED indicator	LED green: supply
	LED red: communication fault
Coding	optional mechanical coding via front socket
Directive conformity	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1
Low voltage	
Directive 2006/95/EC	EN 61010-1
Conformity	
Electromagnetic compatibility	NE 21
Degree of protection	IEC 60529
Environmental test	EN 60068-2-14
Shock resistance	EN 60068-2-27
Vibration resistance	EN 60068-2-6
Damaging gas	EN 60068-2-42
Relative humidity	EN 60068-2-56
Ambient conditions	
Ambient temperature	-20 60 °C (-4 140 °F) , 70 °C (non-Ex)
Storage temperature	-25 85 °C (-13 185 °F)
Relative humidity	95 % non-condensing
Shock resistance	shock type I, shock duration 11 ms, shock amplitude 50 m/s <sup>2</sup> , number of shock directions 6, number of shocks
	per direction 100
Vibration resistance	frequency range 5 500 Hz, amplitude 5 13.2 Hz $\pm$ 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min, duration 10 sweeps 5 Hz - 100 Hz - 5 Hz
Damaging gas	for plugs: 21 days in 25 ppm SO <sub>2</sub> , at 25 °C and 75 % rel. humidity, device G3
Mechanical specifications	
Degree of protection	IP20 when mounted on backplane
Connection	removable front connector with screw flange (accessory) wiring connection via spring terminals (0.14 1.5 mm²) or screw terminals (0.08 1.5 mm²)
Mass	approx. 130 g
Dimensions	32 x 100 x 103 mm (1.26 x 3.9 x 4 in)
Data for application in connect with Ex-areas	
Statement of conformity	PF 08 CERT 1234 X
Group, category, type of prote	
Electrical isolation	SOLOTI VEY ILO DE EXTINITIONO TE GO
Output/power supply, internal	al bus safe electrical isolation acc. to EN 61010-1
	is but the Gibbundan Bolianon acc. to Liv OTOTO
Directive conformity	EN 00070 0 0000
	EN 60079-0:2009
Directive 94/9/EC	EN 60079-11:2007 EN 60079-15:2010
	EN 60079-11:2007 EN 60079-15:2010
International approvals	EN 60079-15:2010
International approvals UL approval	EN 60079-15:2010 E106378
International approvals UL approval IECEx approval	EN 60079-15:2010  E106378  BVS 09.0037X
International approvals UL approval	EN 60079-15:2010 E106378



System information	The module has to be mounted in appropriate backplanes (LB9***) in Zone 2 or outside hazardous areas. Here, the corresponding declaration of conformity has to be observed. For use in hazardous areas (e. g. Zone 2 or Zone 22) the module must be installed in an appropriate enclosure.
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperlfuchs.com.