- 8-channel
- Dry contact or NAMUR inputs
- Installation in Zone 2 or safe area
- Positive or negative logic selectable
- Simulation mode for service operations (forcing)
- Line fault detection (LFD)
- · Permanently self-monitoring
- Module can be exchanged under voltage

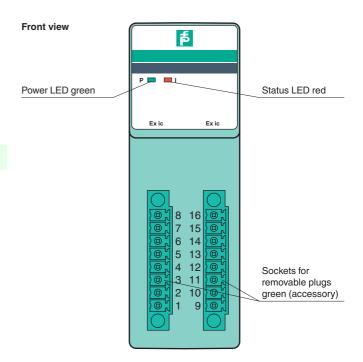
Function

The device accepts digital input signals of NAMUR sensors or mechanical contacts from the field.

Open and short circuit line faults are detected.

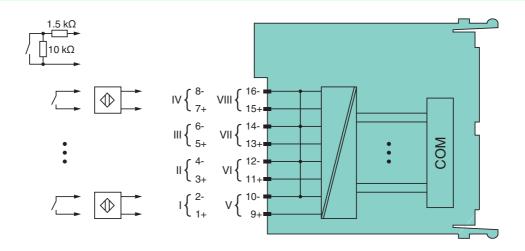
The inputs are galvanically isolated from the bus and the power supply.

Assembly





Connection



Zone 2

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2018-09-13
Date of issue
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Release date

Slots	
Occupied slots	2
Supply	
Connection	backplane bus
Rated voltage U _r	12 V DC , only in connection with the power supplies LB9***
Power dissipation	0.95 W
Power consumption	0.95 W
Internal bus	
Connection	backplane bus
Interface	manufacturer-specific bus to standard com unit
Digital input	
Number of channels	8
Sensor interface	
Connection	NAMUR sensor
Connection [2]	volt-free contact
Connection [3]	Usage without connection to areas where there is a risk of explosion: active signals, mechanical contacts, NAMUR proximity switches, 2-wire sensors If the device has been operated in general electrical systems that are not connected to areas where there is a risk of explosion, the device cannot then be used in electrical systems that are connected to areas where there is a risk of explosion. Usage with connection to areas where there is a risk of explosion: mechanical contacts, NAMUR proximity switches
Connection	channel II: 1+, 2-; channel III: 3+, 4-; channel IIII: 5+, 6-; channel IV: 7+, 8-; channel V: 9+, 10-; channel VI: 11+, 12-; channel VII: 13+, 14-; channel VIII: 15+, 16-
Rated values	acc. to EN 60947-5-6 (NAMUR)
Digital signals (active)	Use in safe area: configurable 24 V 5 V
Switching point: ON	>8 V > 2.7 V
Switching point: OFF	<3V<2.3V
Switching point/switching hysteresis	1.2 2.1 mA / ± 0.2 mA
	8.2 V
Voltage	1 kΩ
Internal resistor R _i	
Line fault detection	can be switched on/off for each channel via configuration tool , active signals (24 V, 5 V) without line fault detection
Connection	mechanical switch with additional resistors (see connection diagram) proximity switches without additional wiring
Short-circuit	< 360 Ω
Open-circuit	< 0.35 mA
Minimum pulse duration	1 ms
Indicators/settings	
LED indication	Power LED (P) green: supply Status LED (I) red: line fault
Coding	optional mechanical coding via front socket
Directive conformity	
Electromagnetic compatibility	
. ,	EN 04000 4
Directive 2014/30/EU	EN 61326-1
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 Shock resistance	95 % non-condensing shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
Vibration resistance	frequency range 10 150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles frequency range 5 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at
	each resonance
Damaging gas	designed for operation in environmental conditions acc. to ISA-S71.04-1985, severity level 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	арргох. 130 g



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Dimensions	32.5 x 100 x 102 mm (1.28 x 3.9 x 4 inch)
Data for application in connection with hazardous areas	
Certificate	PF 08 CERT 1234 X
Marking	⟨x⟩ II 3 G Ex nA [ic] IIC T4 Gc
Galvanic isolation	
Input/power supply, internal bus	safe electrical isolation acc. to EN 60079-11, voltage peak value 375 V
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2009 EN 60079-11:2007 EN 60079-15:2010
International approvals	
IECEx approval	BVS 09.0037X
Approved for	Ex nA [ic] IIC T4 Gc
Marine approval	
Lloyd Register	15/20021
DNV GL Marine	TAA0000034
Bureau Veritas Marine	22449/B0 BV
General information	
System information	The module has to be mounted in appropriate backplanes (LB9***) in Zone 2 or outside hazardous areas. Here, observe the corresponding declaration of conformity. 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.pepperl-fuchs.com.

