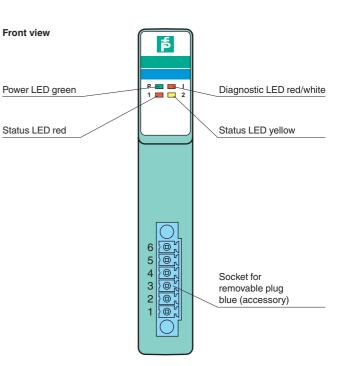
Features

- 1-channel
- Input Ex ia
- Mounting in Zone 2, Class I/Div.2 or in the safe area
- Power supply for 2- or 3-wire transmitters with 4 mA ... 20 mA
- Supply circuit 15 V (20 mA)
- Input from active signals of 4-wire transmitters
- HART communication via field bus or service bus
- HART communication also for separately powered devices
- Simulation mode for service operations (forcing)
- Line fault detection (LFD) and Live Zero monitoring
- · Permanently self-monitoring
- Module can be exchanged under voltage

Function

The transmitter power supply feeds 2- and 3-wire transmitters. Active signals from separately powered field devices and 4wire transmitters can be connected.

Open circuit, short circuit, and Live Zero status are detected. The intrinsically safe input is galvanically isolated from the bus and the power supply.

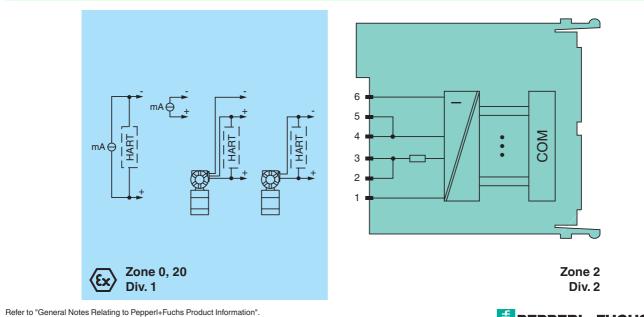


CE

Assembly



Connection



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Slots	
Occupied slots	1
Supply	
Connection	backplane bus
Rated voltage U _r	12 V DC, only in connection with the power supplies LB9***
Power dissipation	0.75 W
Power consumption	1.1 W
Internal bus	
Connection	backplane bus
Interface	manufacturer-specific bus to standard com unit
Analog input	
Number of channels	1
Suitable field devices	
Field device	pressure converter
Field device [2]	flow converter
	level converter
Field device [3]	
Field device [4]	Temperature Converter
Field device interface	
Connection	2-wire transmitter
Connection [2]	3-wire transmitter
Connection [3]	4-wire transmitter
Connection	2-wire transmitter (HART): supply circuit: 2/3+, 4/5-
	3-wire transmitter (HART):
	supply circuit: 2/3+, 6-
	measuring circuit: 4/5+, 6-
	4-wire transmitter (separately powered):
	measuring circuit: 4/5+, 6-
Transmitter eventury alterna	HART measuring circuit: 1+, 6-
Transmitter supply voltage	\geq 15 V at 20 mA; 21.5 V at 4 mA 15 O (terreticale 5 C) vB v(B, 200 O (terreticale 1 C) UABT
Input resistance	15 Ω (terminals 5, 6) <p></p> 236 Ω (terminals 1, 6) HART
Line fault detection	can be switched on/off for each channel via configuration tool, configurable via configuration tool
Short-circuit	factory setting: > 22 mA configurable between 0 26 mA
Open-circuit	factory setting: < 1 mA configurable between 0 26 mA
HART communication	yes
HART secondary variable	yes
Transfer characteristics	
Deviation	
After calibration	0.1 % of the signal range at 20 °C (68 °F)
Influence of ambient temperature	0.1 %/10 K of the signal range
Resolution	12 Bit (0 26 mA)
Refresh time	100 ms
Indicators/settings	
LED indication	Power LED (P) green: supply
	Diagnostic LED (I) red: module fault, red flashing: communication error, white: fixed parameter set (parameters from com unit are ignored), white flashing: requests parameters from com unit
	Status LED (1) red: line fault (lead breakage or short circuit)
	Status LED (2) yellow: Live Zero monitoring
Coding	optional mechanical coding via front socket
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2006
Conformity	
Electromagnetic compatibility	NE 21:2007
Degree of protection	IEC 60529:2000
Environmental test	EN 60068-2-14:2009
Shock resistance	EN 60068-2-27:2009
Vibration resistance	EN 60068-2-6:2008
Damaging gas	EN 60068-2-42:2003
Relative humidity	EN 60068-2-78:2001
Ambient conditions	
Ambient temperature	-20 60 °C (-4 140 °F)
Storage temperature	-25 85 °C (-13 185 °F)
Relative humidity	95 % non-condensing
Shock resistance	shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18

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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	5	
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 mm ²) or screw terminals (0.08 1.5 mm ²)
Mass		approx. 90 g
Dimensions		16 x 100 x 102 mm (0.63 x 3.9 x 4 inch)
Data for application in cor with hazardous areas	nnection	
EU-Type Examination Certificate		BVS 12 ATEX E 100 X
Marking		 (☎) II 3(1) G Ex nA [ia Ga] IIC T4 Gc (☎) I (M1) [Ex ia Ma] I (☎) II (1) D [Ex ia Da] IIIC
Supply		
Voltage	Uo	27 V
Current	I _o	92 mA
Power	Po	619 mW (linear characteristic)
Connection 1-6		
Voltage		8.9 V
Current		4 mA
Power		24 mW (trapezoid characteristic curve)
Input		
Voltage	Uo	0.7 V
Current	I _o	7 mA
Power	Po	5 mW (trapezoid characteristic curve)
Internal capacitance	Ci	242 nF
Internal inductance	Li	0 mH
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 60079-0:2012 EN 60079-11:2012 EN 60079-15:2010 EN 60079-26:2007 EN 50303:2000
International approvals		
ATEX approval		BVS 12 ATEX E 100X
UL approval		E106378
IECEx approval		BVS 13.0043X
Approved for		Ex nA [ia Ga] IIC T4 Gc [Ex ia Da] IIIC [Ex ia Ma] I
Marine approval		
Lloyd Register		15/20021
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, Zone 22 or Div. 2) 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.

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