Features

- 1-channel
- Output wired to Ex e terminals
- Installation in suitable enclosures in Zone 1 or Zone 21
- Analog output module for 0/4 mA ... 20 mA
- HART communication via field bus or service bus
- Simulation mode for service operations (forcing)
- Line fault detection (LFD)
- · Output with watchdog
- · Permanently self-monitoring

Function

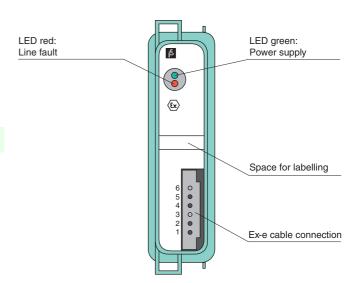
The analog output drives positioners, proportional valves, I/P converters, or local indicators.

Open circuit line fault alarms are detected, depending on the parameter setting.

The output is galvanically isolated from the bus and the power supply (EN 60079-11).

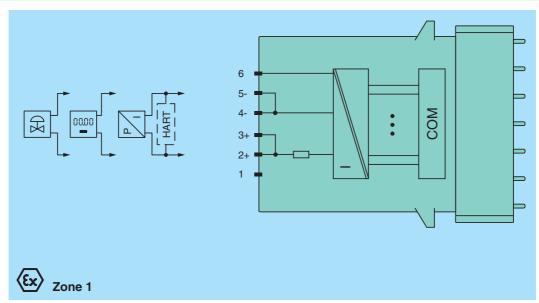
Assembly

Front view





Connection



Supply	
Connection	backplane bus
	·
Rated voltage	12 V DC , only in connection with the power supplies FB92**
Power consumption	0.73 W
Internal bus	
Connection	backplane bus
Interface	manufacturer specific bus to standard Com Unit/gateway
Output	
Connection	wire ends 2+ (brown), 3+ (green), 4- (yellow), 5- (grey)
Current	4 20 mA (0 25 mA) short-circuit protected
Load	750Ω max.
Line fault detection	min. 1 mA
Response threshold	≥ 850 Ω
Watchdog	output off 0.5 s after serious fault
Transfer characteristics	
Deviation	0.1 % of the input signal range at 20 °C (68 °F)
Influence of ambient temperature	0.01 %/K of the input signal range
Refresh time	approx. 50 ms
Indicators/settings	
LED indicator	LED green: supply
	LED red: line fault
Labeling	space for labeling at the front
Directive conformity	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1
Conformity	
Electromagnetic compatibility	NE 21
Protection degree	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	EN 00000-2-30
	00 60 °C (4 140 °E)
Ambient temperature	-20 60 °C (-4 140 °F)
Storage temperature	-25 85 °C (-13 185 °F)
Relative humidity Shock resistance	95 % non-condensing shock type I, shock duration 11 ms, shock amplitude 50 m/s ² , number of shock directions 6, number of shocks
Vibration resistance	per direction 100 frequency range 5 500 Hz, amplitude 5 13.2 Hz ± 1.5 mm, 13.2 100 Hz 1g, sweep rate 1 octave/min,
Damaging gas	duration 10 sweeps 5 Hz - 100 Hz - 5 Hz for plugs: 21 days in 25 ppm SO ₂ , at 25 $^{\circ}$ C and 75 $^{\circ}$ rel. humidity, device G3
Mechanical specifications	101 plage. 21 days 111 20 pp.111 002, at 20 0 and 70 70101. Hamilany, acritic do
Protection degree	IP20 (module), a separate housing is required acc. to the system description
Connection	wire ends or shielded cable tail wiring connection separately covered Ex e terminals required
Mass	approx. 350 g
Dimensions	
Data for application in connection	28 x 107 x 132 mm (1.1 x 4.2 x 5.2 in)
with Ex-areas	DTD 07 ATEV 407411 DTD 07 ATEV 4075 () A 189 A 189 A 189 A 189 A
EC-Type Examination Certificate Group, category, type of protection	PTB 97 ATEX 1074 U , PTB 97 ATEX 1075 (system) , for additional certificates see www.pepperl-fuchs.com (ix) II 2 G Ex d IIC
Electrical isolation	
Output/power supply, internal bus Directive conformity	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Directive 94/9/EC	EN 60079-0 , EN 60079-1
International approvals	2.1000.0 0, 211 000.0 1
· ·	ponding
IECEx approval	pending
General information System information	The module has to be mounted in appropriate backplanes and housings (FB92**) in Zone 1, 2, 21, 22 or outside hazardous areas (gas or dust). Here, the corresponding EC-Type Examination Certificate has to be

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.