# **Features**

- 8-channel
- Installation in Zone 2, Zone 22, or safe area
- · Galvanic group isolation
- Line fault detection (LFD)
- · Positive or negative logic selectable
- Simulation mode for service operations (forcing)
- · Permanently self-monitoring
- Up to SIL2 acc. to IEC 61508
- · Output with watchdog
- · Output with bus-independent safety shutdown
- Module can be exchanged under voltage

## **Function**

The device features 8 independent channels.

The device can be used to drive low power solenoids, sounders, or LEDs.

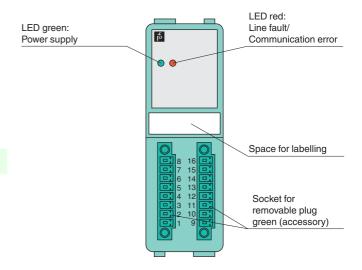
Open and short-circuit line faults are detected.

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

The outputs can be switched off via a contact. This can be used for bus-independent safety applications.

# **Assembly**

#### Front view

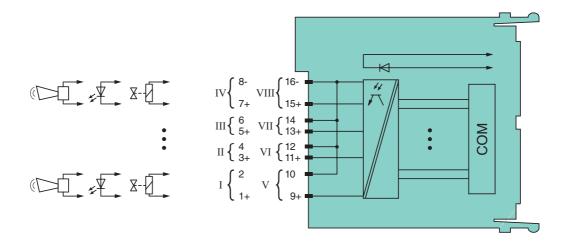






SIL2

### Connection



Zone 2

healistana hua
backplane bus
12 V DC , only in connection with the power supplies LB9***
2.2 W
haalislana hua
backplane bus
manufacturer-specific bus to standard com unit
8
channel I: 1+, 2-; channel II: 3+, 4-; channel III: 5+, 6-; channel IV: 7+, 8-; channel V: 9+, 10-; channel VI: 11+,
12-; channel VII: 13+, 14-; channel VIII: 15+, 16-
20 V
8 mA
20 ms (depending on bus cycle time)
can be switched on/off for each channel via configuration tool
$0.33  \text{mA}$ $< 300  \Omega$
$> 50 \text{ k}\Omega$
within 0.5 s the device goes in safe state, e.g. after loss of communication
20 V, 8 mA per channel
LED green: supply
LED green, supply  LED red: line fault, red flashing: communication error
optional mechanical coding via front socket
EN 61326-1
NE 21
IEC 60529
EN 60068-2-14
EN 60068-2-27
EN 60068-2-6
EN 60068-2-42
EN 60068-2-56
-20 60 °C (-4 140 °F) , 70 °C (non-Ex)
-25 85 °C (-13 185 °F)
95 % non-condensing
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
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
for plugs: 21 days in 25 ppm SO <sub>2</sub> , at 25 °C and 75 % rel. humidity, device G3
IP20 when mounted on backplane
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)
approx. 160 g
32 x 100 x 103 mm (1.26 x 3.9 x 4 in)
32 x 100 x 103 mm (1.26 x 3.9 x 4 in)
32 x 100 x 103 mm (1.26 x 3.9 x 4 in)  PF 08 CERT 1234 X
PF 08 CERT 1234 X  ⟨♠ II 3 G Ex nA [ic] IIC T4 Gc
PF 08 CERT 1234 X
PF 08 CERT 1234 X  ⟨Exightarrow II 3 G Ex nA [ic] IIC T4 Gc  safe electrical isolation acc. to EN 60079-11, voltage peak value 375 V  EN 60079-0:2009 EN 60079-11:2007
PF 08 CERT 1234 X  ⟨♠> II 3 G Ex nA [ic] IIC T4 Gc  safe electrical isolation acc. to EN 60079-11, voltage peak value 375 V  EN 60079-0:2009
PF 08 CERT 1234 X  ⟨Exightarrow II 3 G Ex nA [ic] IIC T4 Gc  safe electrical isolation acc. to EN 60079-11, voltage peak value 375 V  EN 60079-0:2009 EN 60079-11:2007
PF 08 CERT 1234 X  ⟨₤⟩ II 3 G Ex nA [ic] IIC T4 Gc  safe electrical isolation acc. to EN 60079-11, voltage peak value 375 V  EN 60079-0:2009 EN 60079-11:2007 EN 60079-15:2010



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.pepperl-fuchs.com.