Features

- 2-channel
- · DC version, negative polarity
- Working voltage 26.5 V/6.5 V at 10 μA
- Series resistance max. 250 $\Omega/64~\Omega$
- · Fuse rating 80 mA
- · DIN rail mounting
- · Asymmetrical version
- · Internal measuring resistor

Function

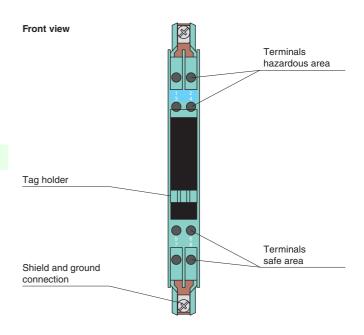
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

The zener diodes in the Zener Barrier are connected in the reverse direction. The breakdown voltage of the diodes is not exceeded in normal operation. If this voltage is exceeded, due to a fault in the safe area, the diodes start to conduct, causing the fuse to blow. The Zener Barrier has a negative polarity, i. e. the cathodes of the zener diodes are grounded.

Asymmetrical Zener Barriers are for optimization of applications which have different voltage levels regarding to ground potential.

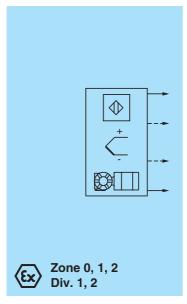
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

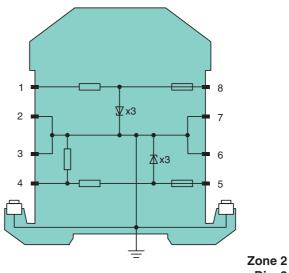
Assembly





Connection





Div. 2

General specifica	ntions	
Туре		DC version, negative polarity
Electrical specific	cations	
Nominal resistance		terminals 1, 8: 300 Ω ; terminals 4, 5: 50 Ω
Series resistance		terminals 1, 8: max. 327 Ω ; terminals 4, 5: max. 64 Ω
Fuse rating		50 mA
Hazardous area c	connection	
Connection		terminals 1, 2; 3, 4
Measuring resistor		terminals 2, 3 to 4: internal resistor 250 Ω for 5 V signal on terminals 6, 7 to 5
Safe area connection		, , , , , , , , , , , , , , , , , , ,
Connection		terminals 5, 6; 7, 8
Rated voltage		terminals 7, 8: 28 V; terminals 5, 6: 10 V
Supply voltage		terminals 7, 8: max. 28 V; terminals 5, 6: max. 9.1 V
Working voltage		terminals 7, 8: 26.5 V at 10 μA; terminals 5, 6: 6.5 V at 10 μA
Conformity		terminals 7, 0. 20.3 v at 10 μA, terminals 3, 0. 0.3 v at 10 μA
Protection degree		IEC 60520
Ambient conditions		IEC 60529
		20 60 % (4 140 % 5)
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-25 70 °C (-13 158 °F)
Relative humidity		max. 75 %, without moisture condensation
Mechanical speci	tications	
Protection degree		IP20
Connection		self-opening connection terminals, max. core cross-section 2 x 2.5 mm ²
Mass		approx. 150 g
Dimensions		12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)
Construction type		modular terminal housing , see system description
Mounting		mounting on 35 mm DIN rail acc. to DIN EN 60715
Data for application in connection with Ex-areas		
EC-Type Examination Certificate		BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		(x) II (1)GD [EEx ia] IIC (-20 °C ≤ T _{amb} ≤ 60 °C)
Voltage	U _o	terminals 1, 2: 28 V; terminals 3, 4: 9.56 V
Current	I _o	terminals 1, 2: 93 mA; terminals 3, 4: 195 mA
Power	P _o	terminals 1, 2: 650 mW; terminals 3, 4: 470 mW
Supply	. 0	terminate 1, 2. 555 mm, terminate 5, 1. 175 mm
	voltago I I	250 V
Maximum safe voltage U _m Series resistance		terminals 1, 2: min. 301 Ω ; terminals 3, 4: min. 49 Ω
Statement of conformity		TÜV 99 ATEX 1484 X . observe statement of conformity
Group, category, type of protection, temperature classification		★ II 3G EEx nA II T4 X
•		
Directive conformity		EN 50014 EN 50000 EN 50001
Directive 94/9/EC		EN 50014, EN 50020, EN 50021
International app	rovais	
FM approval		Lucaus .
Control drawing		116-0118
UL approval		
Control drawing		116-0139
CSA approval		
Control drawing		116-0119
General informati	ion	
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.pepperfuchs.com.