Features

- 2-channel
- · DC version, negative polarity
- Working voltage 26.5 V at 10 μA
- Series resistance max. 327 Ω
- · Fuse rating 50 mA
- · DIN rail mounting

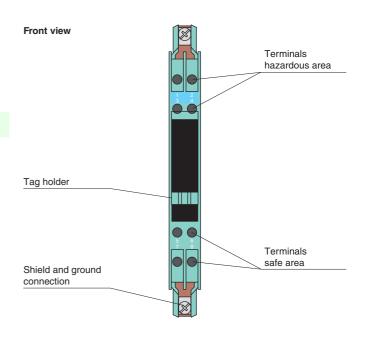
Function

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.

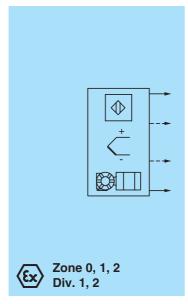
Depending on the application, increased or decreased intrinsic safety parameters apply for serial or parallel connection. For the detailed parameters refer to the Zener Barrier certificate. Application examples can be found in the system description of the Zener Barriers.

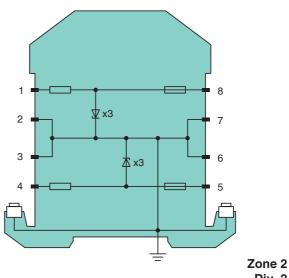
Assembly





Connection





Div. 2

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		Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.
Supplementary information		EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of
General information	n	
Approved for		[zone 0] [Ex ia] IIC, [Ex iaD], [Ex ia] I
ιμομλ αρριοναι		ILOLA DAO 00.0142
Control drawing IECEx approval		116-0119 IECEx BAS 09.0142
CSA approval		116.0110
Control drawing		- ECIU-011
UL approval		116-0139
Control drawing		116-0118
FM approval		116 0110
International appro	ovais	
Directive 94/9/EC		EN 60079-0:2006, EN 60079-11:2007, EN 61241-11:2006 , EN 60079-15:2005
Directive conformity		EN 60070 0,0006 EN 60070 11,0007 EN 61041 11,0006 EN 60070 15,0005
temperature clas		
	type of protection,	
Statement of confor	mity	TÜV 99 ATEX 1484 X , observe statement of conformity
Series resistance		min. $301~\Omega$
Maximum safe vo	oltage U _m	250 V
Supply		
Power	P _o	650 mW
Current	I _o	93 mA
Voltage	U _o	28 V
	type of protection	$\langle x \rangle$ II (1)GD, I (M1) [Ex ia] IIC, [Ex iaD], [Ex ia] I (-20 °C \leq T _{amb} \leq 60 °C) [circuit(s) in zone 0/1/2]
EC-Type Examinati	on Certificate	BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com
Data for application with Ex-areas	ii in connection	
Mounting Pote for application	n in connection	mounting on 35 mm DIN rail acc. to DIN EN 60715
Construction type		modular terminal housing , see system description
Dimensions Construction type		12.5 x 115 x 110 mm (0.5 x 4.5 x 4.3 in)
Mass		approx. 150 g
Mass		max. core cross-section 2 x 2.5 mm ²
Connection		self-opening connection terminals,
Protection degree		IP20
Mechanical specif	cations	
Relative humidity		max. 75 % , without moisture condensation
Storage temperatur	е	-25 70 °C (-13 158 °F)
Ambient temperatur	e	-20 60 °C (-4 140 °F)
Ambient condition	s	
Protection degree		IEC 60529
Conformity		
Working voltage		26.5 V at 10 μA
Supply voltage		max. 28 V
Rated voltage		28 V
Connection		terminals 5, 6; 7, 8
Safe area connect	on	
Connection		terminals 1, 2; 3, 4
Hazardous area co	nnection	
Fuse rating		50 mA
Series resistance		max. $327~\Omega$
Nominal resistance		300 Ω
	ations	
Type Electrical specifica		DC version, negative polarity