## **Features**

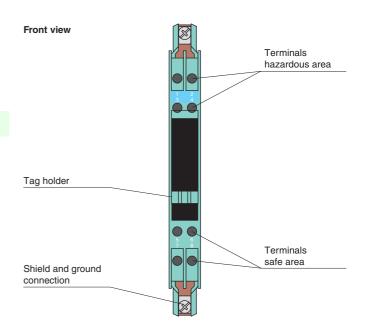
- 1-channel
- DC version, negative polarity
- Working voltage 0.9 V at 1  $\mu$ A
- Series resistance max. 18.18  $\Omega$
- · Fuse rating 250 mA
- · DIN rail mounting

## **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.

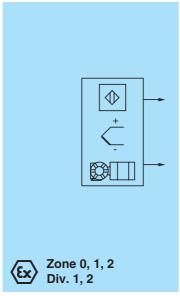
## **Assembly**

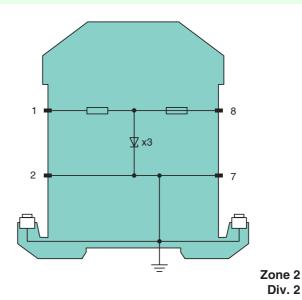






## Connection





-
5
2
Ш
071760
2010 02 17
Data of ice in
11.55
2010 02 17
Otto Octob
۵

General specification	ations	
Туре		DC version, negative polarity
Electrical specifi	cations	
Nominal resistanc	e	10 Ω
Series resistance		max. $18.18\Omega$
Fuse rating		250 mA
Hazardous area	connection	
Connection		terminals 1, 2
Safe area connec	ction	
Connection		terminals 7, 8
Rated voltage		5 V
Supply voltage		max. 4.8 V
Norking voltage		0.9 V at 1 μA
Conformity		
Protection degree	1	IEC 60529
Ambient condition	ons	
Ambient temperat	ture	-20 60 °C (-4 140 °F)
Storage temperate		-25 70 °C (-13 158 °F)
Relative humidity		max. 75 %, without moisture condensation
Mechanical spec	ifications	
Protection degree		IP20
Connection		self-opening connection terminals, max. core cross-section 2 x 2.5 mm <sup>2</sup>
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
<del>_</del>	ion in connection	
EC-Type Examina	ation Certificate	BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com
Group, categor	y, type of protection	( a) II (1)GD [EEx ia] IIC (-20 °C ≤ $T_{amb}$ ≤ 60 °C)
Voltage	U <sub>o</sub>	4.94 V
Current	I <sub>o</sub>	504 mA
Power	P <sub>o</sub>	620 mW
Supply	U	
Maximum safe	voltage U <sub>m</sub>	250 V
Series resistance	5 - III	min. 9.8 Ω
Statement of conf	ormity	TÜV 99 ATEX 1484 X , observe statement of conformity
	y, type of protection,	(ऒ II 3G EEx nA II T4 X
Directive conform	ity	
Directive 94/9/E	•	EN 50014, EN 50020, EN 50021
nternational app	provals	
FM approval		
Control drawing	g	116-0118
JL approval	-	
Control drawing	3	116-0139
CSA approval		
Control drawing	3	116-0119
General informat	-	
Supplementary in		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.