Features

- 2-channel
- · AC version
- Working voltage 10 V at 10 μA
- Series resistance max. 169 Ω
- · Fuse rating 63 mA
- · DIN rail mounting
- · Replaceable fuse

Function

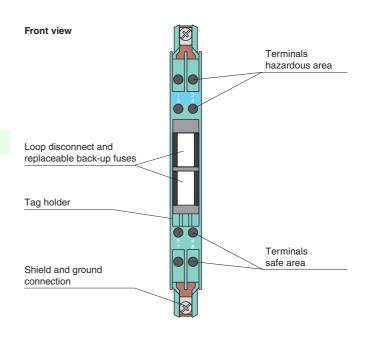
The Zener Barrier prevents the transfer of unacceptably high energy from the safe area into the hazardous area.

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 alternating polarities, i. e. interconnected zener diodes are employed and one side is grounded. The Zener Barrier can be used for both alternating voltage signals and direct voltage signals.

Additionally this Zener Barrier is equipped with a replaceable fuse.

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

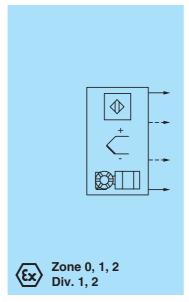


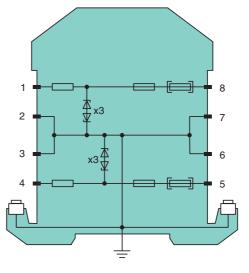


Connection

Date of issue 2015-02-19 072182_eng.xml

Release date 2015-02-1915:20





Zone 2

Div. 2

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

General specifications	
Туре	AC version
Electrical specifications	
Nominal resistance	150 Ω
Series resistance	max. 169 Ω
Fuse rating	63 mA
Hazardous area connection	
Connection	terminals 1, 2; 3, 4
Safe area connection	(offinial of 1, 2, 0, 1
Connection	terminals 5, 6; 7, 8
Working voltage	max. 11.1 V , 10 V at 10 μA
Conformity	παλ. Γι. Γν, Το ναι Το μ. Γι
Degree of protection	IEC 60529
Ambient conditions	120 00020
	20 60°C (4 140°E)
Ambient temperature	-20 60 °C (-4 140 °F) -25 70 °C (-13 158 °F)
Storage temperature	
Relative humidity	max. 75 % , without moisture condensation
Mechanical specifications	IDOO
Degree of protection	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	on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with Ex-areas	
EC-Type Examination Certificate	BAS 00 ATEX 7096, for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection	\textcircled{k} II (1)GD, I (M1) [Ex ia] IIC, [Ex iaD], [Ex ia] I (-20 °C ≤ T_{amb} ≤ 60 °C) [circuit(s) in zone 0/1/2]
Voltage U _o	12 V
Current I _o	82 mA
Power P _o	240 mW
Supply	
Maximum safe voltage U _m	250 V
Series resistance	min. 147 Ω
Statement of conformity	TÜV 99 ATEX 1484 X , observe statement of conformity
Group, category, type of protection, temperature class	(☑) II 3G Ex nA II T4 [device in zone 2]
Directive conformity	
Directive 94/9/EC	EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010
International approvals	
FM approval	
Control drawing	116-0118
UL approval	
Control drawing	116-0355 (cULus)
CSA approval	
Control drawing	116-0119
General information	
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.

