Features

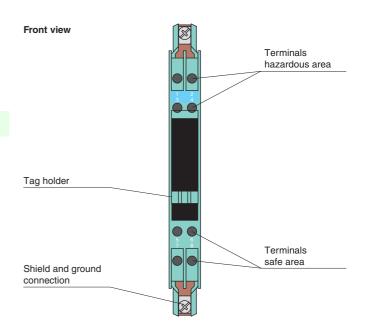
- 1-channel
- DC version, negative polarity
- Working voltage 19 V at 10 μA
- Series resistance max. 166 Ω
- Fuse rating 50 mA
- · DIN rail mounting

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.

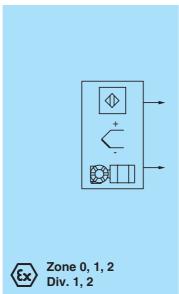
Assembly

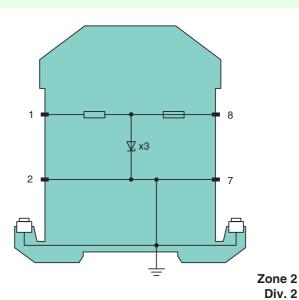






Connection





PEPPERL+FUCHS

Release date 2014-11-04 10:22 Date of issue 2015-02-16 071785_eng.xml

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General specifications	
Type	DC version, negative polarity
Electrical specifications	DC version, negative polarity
	150.0
Nominal resistance	150 Ω
Series resistance	max. 166 Ω
Fuse rating	50 mA
Hazardous area connection	
Connection	terminals 1, 2
Safe area connection	
Connection	terminals 7, 8
Working voltage	max. 19.6 V , 19 V at 10 μA
Conformity	
Degree of protection	IEC 60529
Ambient conditions	
Ambient temperature	-20 60 °C (-4 140 °F)
Storage temperature	-25 70 °C (-13 158 °F)
Relative humidity	max. 75 %, without moisture condensation
Mechanical specifications	
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 connec	· ·
with Ex-areas	
EC-Type Examination Certificate	BAS 01 ATEX 7005, for additional certificates see www.pepperl-fuchs.com
Group, category, type of prote	ion $\langle \mathbb{E} \rangle$ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C \leq T _{amb} \leq 60 °C) [circuit(s) in zone 0/1/2]
Voltage	o 22 V
Current	150 mA
Power	820 mW
Supply	
Maximum safe voltage	_m 250 V
Series resistance	min. 147 Ω
Permissible connection values [I	x ia]
Statement of conformity	TÜV 99 ATEX 1484 X , observe statement of conformity
Group, category, type of prote temperature class	
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
· · · · · · · · · · · · · · · · · · ·	110-0110
UL approval	116-0139
Control drawing	110-0100
CSA approval	116 0110
Control drawing	116-0119
IECEx approval	IECEx BAS 09.0142
Approved for	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I
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.