Features

- 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- · Potentiometer input
- Current output 4 mA ... 20 mA
- · Lead resistance compensation adjustment
- Accuracy 0.05 %
- Up to SIL2 acc. to IEC 61508

Function

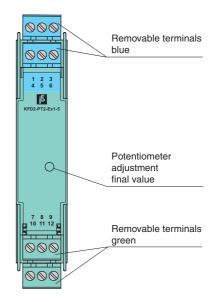
This isolated barrier is used for intrinsic safety applications. It provides the source voltage to a potentiometer and transfers its wiper position from hazardous areas to safe areas. It then converts the signal to a 4 mA ... 20 mA current output.

The unit can be used in a 3-, 4-, or 5-wire configuration depending on the required measurement accuracy. Terminals 2 and 5 are used as the sense line for the potentiometer lead resistance compensation in a 5-wire configuration.

The barrier's potentiometer can be used to compensate for lead resistance up to 5 % of the hazardous area potentiometer value.

Assembly

Front view

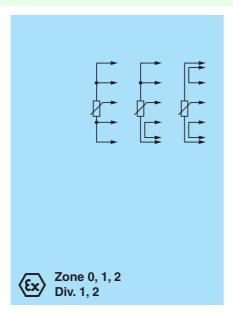


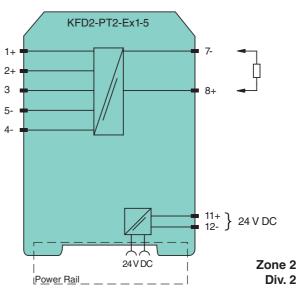
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SIL2

Connection





Release date 2012-11-2813:26 Date of issue 2015-02-16 072023_eng.xml

General specifications		
Signal type		Analog input
Supply		
Connection		Power Rail or terminals 11+, 12-
Rated voltage U _n		20 35 V DC
Ripple		within the supply tolerance
Power loss		1 W
Power consumption		1.3 W
Input		
Connection		terminals 4-, 5-, 3+, 2+, 1+
Potentiometer		
Types of measuring		3-, 4-, 5-wire technology
Nominal resistance		$\geq 800 \Omega$
Supply voltage		approx. 4.7 V
Lead resistance		5 % of the potentiometer resistance (adjustable)
Output		
Connection		terminals 7-, 8+
Current output		4 20 mA, load ≤1 kΩ
Transfer characteristics		
Deviation		
Linearity		± 10 μA
Influence of ambient temperature		$\leq 1 \mu\text{A/K}$
Rise time		10 to 90 % ≤ 8 ms; 10 to 90 % within 1 % of span ≤ 25 ms
Electrical isolation		
Output/power supply		functional insulation, rated insulation voltage 50 V AC
Directive conformity		
Electromagnetic compatibilit	ty	
Directive 2004/108/EC		EN 61326-1:2006
Conformity		
Electromagnetic compatibility		NE 21:2006
Degree of protection		IEC 60529:2001
Protection against electrical shock		UL 61010-1
Ambient conditions		
		-20 60 °C (-4 140 °F)
Ambient temperature		-20 00 0 (-4 140 1)
Mechanical specifications		
•		IDOO
Degree of protection		IP20
Degree of protection Mass		approx. 120 g
Degree of protection Mass Dimensions		approx. 120 g 20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1
Degree of protection Mass Dimensions Mounting		approx. 120 g
Degree of protection Mass Dimensions Mounting Data for application in cor		approx. 120 g 20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1
Degree of protection Mass Dimensions Mounting Data for application in corwith Ex-areas	nnection	approx. 120 g 20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1 on 35 mm DIN mounting rail acc. to EN 60715:2001
Degree of protection Mass Dimensions Mounting Data for application in cor with Ex-areas EC-Type Examination Certif	nnection	approx. 120 g 20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1 on 35 mm DIN mounting rail acc. to EN 60715:2001 BAS 00 ATEX 7171 , for additional certificates see www.pepperl-fuchs.com
Degree of protection Mass Dimensions Mounting Data for application in corwith Ex-areas EC-Type Examination Certif Group, category, type of p	nnection icate protection	approx. 120 g $20 \times 107 \times 115 \text{ mm } (0.8 \times 4.2 \times 4.5 \text{ in}) \text{ , housing type B1}$ on 35 mm DIN mounting rail acc. to EN 60715:2001 $BAS 00 \text{ ATEX } 7171 \text{ , for additional certificates see www.pepperl-fuchs.com}$ $\textcircled{x} \text{ II } (1)G \text{ [Ex ia Ga] IIC }, \textcircled{x} \text{ II } (1)D \text{ [Ex ia Da] IIIC }, \textcircled{x} \text{ I } (M1) \text{ [Ex ia Ma] I } (-20 \text{ °C} \leq T_{amb} \leq 60 \text{ °C})$
Degree of protection Mass Dimensions Mounting Data for application in corwith Ex-areas EC-Type Examination Certif Group, category, type of p	nnection	approx. 120 g $20 \times 107 \times 115 \text{ mm } (0.8 \times 4.2 \times 4.5 \text{ in}) \text{ , housing type B1}$ on 35 mm DIN mounting rail acc. to EN 60715:2001 $BAS 00 \text{ ATEX } 7171 \text{ , for additional certificates see www.pepperl-fuchs.com} \\ \textcircled{\mathbb{R}} \text{ II } (1)G \text{ [Ex ia Ga] IIC , } \textcircled{\mathbb{R}} \text{ II } (1)D \text{ [Ex ia Da] IIIC , } \textcircled{\mathbb{R}} \text{ I } (M1) \text{ [Ex ia Ma] I } (-20 \text{ °C} \leq T_{amb} \leq 60 \text{ °C}) \\ 10.4 \text{ V DC}$
Degree of protection Mass Dimensions Mounting Data for application in corwith Ex-areas EC-Type Examination Certif Group, category, type of p	nnection icate protection Uo Io	approx. 120 g $20 \times 107 \times 115 \text{ mm } (0.8 \times 4.2 \times 4.5 \text{ in}) \text{ , housing type B1}$ on 35 mm DIN mounting rail acc. to EN 60715:2001 $BAS 00 \text{ ATEX } 7171 \text{ , for additional certificates see www.pepperl-fuchs.com}$ $\textcircled{x} \text{ II } (1)G \text{ [Ex ia Ga] IIC }, \textcircled{x} \text{ II } (1)D \text{ [Ex ia Da] IIIC }, \textcircled{x} \text{ I } (M1) \text{ [Ex ia Ma] I } (-20 \text{ °C} \leq T_{amb} \leq 60 \text{ °C})$
Degree of protection Mass Dimensions Mounting Data for application in corwith Ex-areas EC-Type Examination Certif Group, category, type of p	nnection icate protection U _o	approx. 120 g $20 \times 107 \times 115 \text{ mm } (0.8 \times 4.2 \times 4.5 \text{ in}) \text{ , housing type B1}$ on 35 mm DIN mounting rail acc. to EN 60715:2001 $BAS 00 \text{ ATEX } 7171 \text{ , for additional certificates see www.pepperl-fuchs.com} \\ \textcircled{\mathbb{R}} \text{ II } (1)G \text{ [Ex ia Ga] IIC , } \textcircled{\mathbb{R}} \text{ II } (1)D \text{ [Ex ia Da] IIIC , } \textcircled{\mathbb{R}} \text{ I } (M1) \text{ [Ex ia Ma] I } (-20 \text{ °C} \leq T_{amb} \leq 60 \text{ °C}) \\ 10.4 \text{ V DC}$
Degree of protection Mass Dimensions Mounting Data for application in corwith Ex-areas EC-Type Examination Certif Group, category, type of providing Current Power Supply	nnection icate protection U _o I _o P _o	approx. 120 g 20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1 on 35 mm DIN mounting rail acc. to EN 60715:2001 BAS 00 ATEX 7171 , for additional certificates see www.pepperl-fuchs.com ⟨⟨⟨⟩⟩ (1)G [Ex ia Ga] C ,⟨⟨⟨⟩⟩ (1)D [Ex ia Da] C ,⟨⟨⟨⟩⟩ (M1) [Ex ia Ma] (-20 °C ≤ T _{amb} ≤ 60 °C) 10.4 V DC 31.4 mA 82 mW
Degree of protection Mass Dimensions Mounting Data for application in corwith Ex-areas EC-Type Examination Certif Group, category, type of pyology Voltage Current Power Supply Maximum safe voltage	nnection icate protection Uo Io	approx. 120 g 20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1 on 35 mm DIN mounting rail acc. to EN 60715:2001 BAS 00 ATEX 7171 , for additional certificates see www.pepperl-fuchs.com ⟨x⟩ II (1)G [Ex ia Ga] IIC , ⟨x⟩ II (1)D [Ex ia Da] IIIC , ⟨x⟩ I (M1) [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) 10.4 V DC 31.4 mA
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Degree of protection Mass Dimensions Mounting Data for application in corwith Ex-areas EC-Type Examination Certif Group, category, type of pyology Voltage Current Power Supply Maximum safe voltage Output Maximum safe voltage	nnection icate protection Uo Po Um	approx. 120 g 20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1 on 35 mm DIN mounting rail acc. to EN 60715:2001 BAS 00 ATEX 7171 , for additional certificates see www.pepperl-fuchs.com ⟨x⟩ II (1)G [Ex ia Ga] IIC , ⟨x⟩ II (1)D [Ex ia Da] IIIC , ⟨x⟩ I (M1) [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) 10.4 V DC 31.4 mA 82 mW 250 V (Attention! The rated voltage can be lower.)
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Degree of protection Mass Dimensions Mounting Data for application in corwith Ex-areas EC-Type Examination Certif Group, category, type of position of the correct of the c	nnection icate protection Uo Po Um	approx. 120 g 20 x 107 x 115 mm (0.8 x 4.2 x 4.5 in) , housing type B1 on 35 mm DIN mounting rail acc. to EN 60715:2001 BAS 00 ATEX 7171 , for additional certificates see www.pepperl-fuchs.com ⟨x⟩ (1)G [Ex ia Ga] C , ⟨x⟩ (1)D [Ex ia Da] C , ⟨x⟩ (M1) [Ex ia Ma] (-20 °C ≤ T _{amb} ≤ 60 °C) 10.4 V DC 31.4 mA 82 mW 250 V (Attention! The rated voltage can be lower.) TÜV 02 ATEX 1797 X ⟨x⟩ 3G Ex nA T4 safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
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IECEx approval	IECEX BAS 10.0060 IECEX BAS 10.0061X
Approved for	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I Ex nA II T4 Gc
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

Additional information

Jumpers must be used on terminals 1, 2 and 4, 5 in 3-wire configurations. A jumper must be used between terminals 4 and 5 in 4-wire connections. In the 5-wire mode of operation, the potentiometer voltage is measured at terminals 2 and 5 and automatically readjusted.

The front side potentiometer can be used to compensate for lead resistances up to 5 % of the potentiometer value. During adjustment, the potentiometer is set to 100 % of its value and the output signal is adjusted to 100 % of the required value. This adjustment can be repeated setting the potentiometer to 0 %.

Accessories

Power feed module KFD2-EB2

The power feed module is used to supply the devices with 24 V DC via the Power Rail. The fuse-protected power feed module can supply up to 150 individual devices depending on the power consumption of the devices. Collective error messages received from the Power Rail activate a galvanically-isolated mechanical contact.

Power Rail UPR-03

The Power Rail UPR-03 is a complete unit consisting of the electrical insert and an aluminium profile rail 35 mm x 15 mm. To make electrical contact, the devices are simply engaged.

Profile Rail K-DUCT with Power Rail

The profile rail K-DUCT is an aluminum profile rail with Power Rail insert and two integral cable ducts for system and field cables. Due to this assembly no additional cable guides are necessary.



Power Rail and Profile Rail must not be fed via the device terminals of the individual devices!