Features

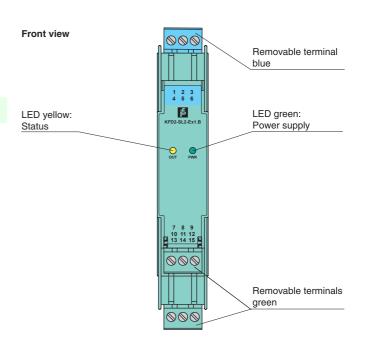
- 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- Output 45 mA at 11.7 V DC
- · Logic input, non-polarized
- Up to SIL2 acc. to IEC 61508

Function

This isolated barrier is used for intrinsic safety applications. It supplies power to solenoids, LEDs, and audible alarms.

It is controlled by means of a logic circuit. Voltage signals in a range of 16 V DC ... 30 V DC are accepted as 1-signal. The 0-signal must be within a range of 0 V DC ... 5 V DC. The current consumption of the logic inputs is about 3 mA each.

At full load, 11.7 V at 45 mA is available for the hazardous area load.

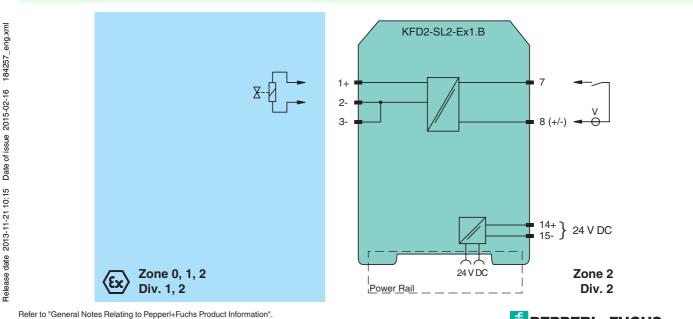


CE

Assembly

SIL2

Connection



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	Digital Output	
	Power Rail or terminals 14+, 15-	
Un	2030 V DC	
	≤ 1.7 W at 45 mA output current	
	terminals 7, 8	
	approx. 3 mA at 24 V DC	
	1-signal: 16 30 V DC 0-signal: 0 5 V DC	
Ri	272 Ω	
	current I _E : 45 mA voltage U _E : 11.7 V	
U.	≥ 24 V	
• 5	terminals 1+, 2- or 3-	
nt	45 mA	
	These values are valid for the rated operating voltages from 20 30 V DC.	
av	$\leq 20 \text{ ms}$ / $\leq 20 \text{ ms}$	
~y		
	reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}	
	reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}	
	reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}	
.,		
ý		
	EN 61326-1:2006	
ý	NE 21:2006	
	IEC 60529:2001	
snock	EN 61010-1:2010	
	-20 60 °C (-4 140 °F)	
	IP20	
	approx. 150 g	
	20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2	
nection		
	ZELM 00 ATEX 0024, for additional certificates see www.pepperl-fuchs.com	
rotection	 ⟨ы⟩ II (1)G [Ex ia Ga] IIC ⟨ы⟩ II (1)D [Ex ia Da] IIIC ⟨ы⟩ I (M1) [Ex ia Ma] I 	
	Exia	
Uo	28 V	
Ι _ο	110 mA	
Po	770 mW (linear characteristic)	
U _m	40 V (Attention! The rated voltage can be lower.)	
nd EEx ib]		
U _m	60 V (Attention! The rated voltage can be lower.)	
Um	40 V (Attention! The rated voltage can be lower.)	
	TÜV 02 ATEX 1820 X	
protection,	€ II 3G Ex nA II T4	
	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V	
	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V	
	EN 60079-0:2012, EN 60079-11:2012, EN 60079-26:2007, EN 50303:2000, EN 60079-15:2010	
	EN 60079-0.2012, EN 60079-11.2012, EN 60079-26.2007, EN 50505.2000, EN 60079-15.2010	
	EN 60079-0.2012, EN 60079-11.2012, EN 60079-26.2007, EN 50505.2000, EN 60079-15.2010	
	EN 60079-0.2012, EN 60079-11.2012, EN 60079-26.2007, EN 50505.2000, EN 60079-15.2010	
	U _s Int ay U y y shock Int cate rotection U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

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IECEx approval	IECEx TUN 04.0001		
Approved for	[Ex ia] IIC , [Ex iaD]		
General information			
		ficate, Statement of Conformity, Declaration of Conformity, Attestation of have to be observed where applicable. For information see www.pepperl-	
Output characteristic			
Output circuit diagramm		Output characteristic for input voltage 20 V 30 V E: Curve angle point (U _E , I _E)	
272 Ω (max.) 24 V (min)		U (V) 24 11.7 E	
45 mA		45 I (mÅ)	

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 100 individual devices depending on the power consumption of the devices. A galvanically isolated mechanical contact uses the Power Rail to transmit collective error messages.

Power Rail UPR-03

The Power Rail UPR-03 is a complete unit consisting of the electrical inset 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!

