Features

- · 2-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



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

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Concret encolfications				
General specifications				
Signal type		Digital Output		
Supply				
Connection		Power Rail or terminals 14+, 15-		
Rated voltage	Un	20 30 V DC		
Power consumption		\leq 3.3 W at 45 mA output current		
Input				
Connection		terminals 7, 8, 9		
Input current		approx. 3 mA at 24 V DC		
Signal level		1-signal: 16 30 V DC 0-signal: 0 5 V DC		
Output				
Internal resistor	Ri	272 Ω		
Limit		current I _E : 45 mA voltage U _E : 11.7 V		
Open loop voltage	Us	≥24 V		
Connection	Ū	terminals 1+, 2-, 3- channel 1 , terminals 4+, 5-, 6- channel 2		
Output rated operating current		45 mA		
		These values are valid for the rated operating voltages from 20 30 V DC		
Epergized/De-epergized delay		C 20 mg / C 20 mg		
Energized/De-energized delay		S 20 115 / S 20 115		
		reinforced insulation eccording to IEC/EN 01010 1, retailing where 000 V		
Input/Output		remorced insulation according to IEU/EIN 61010-1, rated insulation voltage 300 Veff		
Input/power supply		reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}		
Power supply/Output		reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}		
Directive conformity				
Electromagnetic compatibility				
Directive 2004/108/EC		EN 61326-1:2006		
Conformity				
Electromagnetic compatibility		NE 21:2006		
Degree of protection		IEC 60529:2001		
Protection against electrical sh	nck	EN 61010-1:2010		
Ambient conditions	501			
Ambient conditions				
Ambient temperature				
Ambient temperature		-20 50 °C (-4 122 °F)		
Ambient temperature Mechanical specifications		-20 50 °C (-4 122 °F)		
Ambient temperature Mechanical specifications Degree of protection		-20 50 °C (-4 122 °F) IP20		
Ambient temperature Mechanical specifications Degree of protection Mass		-20 50 °C (-4 122 °F) IP20 approx. 150 g		
Ambient temperature Mechanical specifications Degree of protection Mass Dimensions		-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2		
Ambient temperature Mechanical specifications Degree of protection Mass Dimensions Data for application in conner with Ex-areas	ection	-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2		
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Ambient temperature Mechanical specifications Degree of protection Mass Dimensions Data for application in conner with Ex-areas EC-Type Examination Certifica Group, category, type of prot	ection te tection	-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 ZELM 00 ATEX 0024 , for additional certificates see www.pepperl-fuchs.com (in II (1)G [Ex ia Ga] IIC (in II (1)D [Ex ia Da] IIIC (in II (1)D [Ex ia Ma] I		
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Ambient temperature Mechanical specifications Degree of protection Mass Dimensions Data for application in conner with Ex-areas EC-Type Examination Certifica Group, category, type of protection Output Voltage	ection te tection	-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 ZELM 00 ATEX 0024 , for additional certificates see www.pepperl-fuchs.com (iv) II (1)G [Ex ia Ga] IIC (iv) II (1)D [Ex ia Da] IIIC (iv) II (1)D [Ex ia Ma] I Ex ia 28 V		
Ambient temperature Mechanical specifications Degree of protection Mass Dimensions Data for application in conner with Ex-areas EC-Type Examination Certifica Group, category, type of prot Output Voltage Current	ection te tection	-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 ZELM 00 ATEX 0024 , for additional certificates see www.pepperl-fuchs.com (iv) II (1)G [Ex ia Ga] IIC (iv) II (1)D [Ex ia Da] IIIC (iv) II (1)D [Ex ia Ma] I Ex ia 28 V 110 mA		
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Ambient temperature Mechanical specifications Degree of protection Mass Dimensions Data for application in conner with Ex-areas EC-Type Examination Certifica Group, category, type of prot Output Voltage Current Power Supply	ection te tection U _o I _o P _o	-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 ZELM 00 ATEX 0024 , for additional certificates see www.pepperl-fuchs.com (iv) II (1)G [Ex ia Ga] IIC (iv) II (1)D [Ex ia Da] IIIC (iv) II (1)D [Ex ia Ma] I Ex ia 28 V 110 mA 770 mW (linear characteristic)		
Ambient temperature Mechanical specifications Degree of protection Mass Dimensions Data for application in conner with Ex-areas EC-Type Examination Certifica Group, category, type of prot Output Voltage Current Power Supply Maximum safe voltage	ection te tection	-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 ZELM 00 ATEX 0024 , 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) II (1)D [Ex ia Da] IIIC (x) II (M1) [Ex ia Ma] I Ex ia 28 V 110 mA 770 mW (linear characteristic)		
Ambient temperature Mechanical specifications Degree of protection Mass Dimensions Data for application in conner with Ex-areas EC-Type Examination Certifica Group, category, type of prot Output Voltage Current Power Supply Maximum safe voltage	ection te tection I _o P _o	-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 ZELM 00 ATEX 0024 , for additional certificates see www.pepperl-fuchs.com (ix) II (1)G [Ex ia Ga] IIC (ix) II (1)D [Ex ia Da] IIIC (ix) II (1)D [Ex ia Da] IIIC (ix) II (1)D [Ex ia Ma] I Ex ia 28 V 110 mA 770 mW (linear characteristic) 40 V (Attention! The rated voltage can be lower.)		
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Ambient temperature Mechanical specifications Degree of protection Mass Dimensions Data for application in conner with Ex-areas EC-Type Examination Certifica Group, category, type of protection Current Power Supply Maximum safe voltage Type of protection [EEx ia and I Input Maximum safe voltage Collective error message Maximum safe voltage Statement of conformity Group, category, type of protection temperature class Electrical isolation Input/Output	ection te tection U _o I _o P _o U _m EEx ib] U _m tection,	-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 ZELM 00 ATEX 0024 , for additional certificates see www.pepperl-fuchs.com (a) II (1)G [Ex ia Ga] IIC (b) II (1)D [Ex ia Da] IIIC (c) II (1)D [Ex ia Da] IIIC (c) II (1)D [Ex ia Da] IIIC (c) II (1)D [Ex ia Ma] I Ex ia 28 V 110 mA 770 mW (linear characteristic) 40 V (Attention! The rated voltage can be lower.) 60 V (Attention! The rated voltage can be lower.) 40 V (Attention! The rated voltage can be lower.) 7Ü v 02 ATEX 1820 X (c) II 3G Ex nA II T4 safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V		
Ambient temperature Mechanical specifications Degree of protection Mass Dimensions Data for application in conner with Ex-areas EC-Type Examination Certifica Group, category, type of protection Current Power Supply Maximum safe voltage Type of protection [EEx ia and I Input Maximum safe voltage Collective error message Maximum safe voltage Statement of conformity Group, category, type of protection Electrical isolation Input/Output Output/Output Output/Output Output/Output Output/power supply	ection te tection U ₀ I ₀ P ₀ U _m EEx ib] U _m tection,	-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 ZELM 00 ATEX 0024 , for additional certificates see www.pepperl-fuchs.com (a) II (1)G [Ex ia Ga] IIC (b) I (1)D [Ex ia Da] IIC (c) II (1)D [Ex ia Da] IIC (c) II (1)D [Ex ia Ma] I Ex ia 28 V 110 mA 770 mW (linear characteristic) 40 V (Attention! The rated voltage can be lower.) 60 V (Attention! The rated voltage can be lower.) 40 V (Attention! The rated voltage can be lower.) 40 V (Attention! The rated voltage can be lower.) 50 V (Attention!		
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Ambient temperature Mechanical specifications Degree of protection Mass Dimensions Data for application in conner with Ex-areas EC-Type Examination Certifica Group, category, type of protection Current Power Supply Maximum safe voltage Type of protection [EEx ia and I Input Maximum safe voltage Collective error message Maximum safe voltage Statement of conformity Group, category, type of protection temperature class Electrical isolation Input/Output Output/power supply Directive 94/9/EC	ection te tection I _o P _o U _m EEx ib] U _m tection,	-20 50 °C (-4 122 °F) IP20 approx. 150 g 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 ZELM 00 ATEX 0024 , for additional certificates see www.pepperl-fuchs.com (a) II (1)G [Ex ia Ga] IIC (b) II (1)D [Ex ia Da] IIIC (c) I (M1) [Ex ia Da] IIIC (c) I (M1) [Ex ia Da] IIIC (c) I (M1) [Ex ia Ma] I Ex ia 28 V 110 mA 770 mW (linear characteristic) 40 V (Attention! The rated voltage can be lower.) 60 V (Attention! The rated voltage can be lower.) 40 V (Attention! The rated voltage can be lower.) 50 V (Attention! The rated voltage can be lower.) 40 V (Attention! The rated voltage can be lower.) 50 V (Attention! The rated voltage can		
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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				
Supplementary information	EC-Type Examination Certificate Conformity and instructions have fuchs.com.	, Statement of Conformity, Declaration of Conformity, Attestation of 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) 45 mA) 	U (V) 24 11.7 E 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!

