Features

- 2-channel isolated barrier
- 24 V DC supply (Power Rail)
- Dry contact or NAMUR inputs
- · Relay contact output
- · Line fault detection (LFD)
- · Reversible mode of operation
- Up to SIL2 acc. to IEC 61508

Function

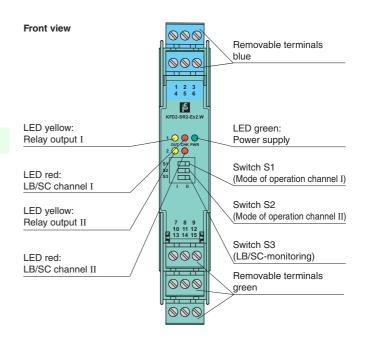
This isolated barrier is used for intrinsic safety applications. It transfers digital signals (NAMUR sensors/mechanical contacts) from a hazardous area to a safe area.

The proximity sensor or switch controls a form C changeover relay contact for the safe area load. The normal output state can be reversed using switches S1 and S2. Switch S3 is used to enable or disable line fault detection of the field circuit.

During an error condition, the relays revert to their deenergized state and the LEDs indicate the fault according to NAMUR NE44.

A unique collective error messaging feature is available when used with the Power Rail system.

Assembly

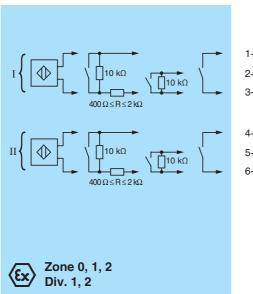


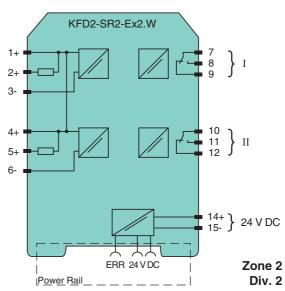




SIL2

Connection





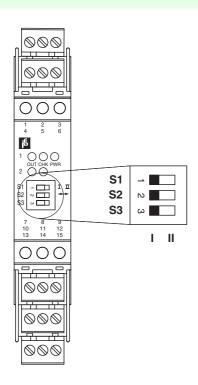
132960_eng.xml
2015-02-27
Date of issue
Release date 2015-02-1911:50

Signal type	General specifications				
Supply Power fail or terminals 14+, 15- Ratiot violage U _n 2000 V DC 2000 V DC Ratiot current I _n 50 mA Power form I _N 50 mA Power form I _N 50 mA Power form I _N 10 W Power form I _N 20 mA Power form I _N 10 W Power form I _N 10 W Connection terminals 1+, 2+, 3+4+, 5+, 8- acc. to EN 60947-54 (NAMUR) Open action violage/short-circuit current Switching projects 12 2 mA 7 act voic (NAMUR) Open action violage/short-circuit current Switching projects 12 2 mA 7 act voic (NAMUR) Output II signs, 1 relay 30 ma 2 · 20 ms Connection output I: terminals 7 · 8, 9 autput II: terminals 10, 11, 12 Contact I bading 250 m2 · 20 ms 30 ma 2 · 20 ms Minimum wink to current 250 M2 · 20 ms 30 ma 2 · 20 ms Switching frequency 4 10 Hz 250 M2 · 20 · 20 · 20 · 20 · 20 · 20 · 20	-		Digital Input		
Connection Power Fail or ferminals 14+, 15- Ripple 21 % Rated avairant 1, 5 Stm mA Power rose 1 W Power rose power consumption 4-13 W Connection terminals 1+, 2+, 3+, 4+, 5+, 6- Rated values 050 mc inclusivolatigas/short-circuit current Switching point-britching hysteresis 12 2-1 m/4 approx. 0 2 mA Switching point-britching hysteresis 12 2-1 m/4 approx. 0 2 mA Mulput 2-2 ms / 2-20 ms Connection 0.00pd 1: terminals 7, 8, 9; output II: terminals 10, 11, 12 Output 2-2 ms / 2-20 ms Contact Loading 25 V ACZ Acos + 0-7, 126, 5 V ACZ ACA Acos + 0-7, 140 V DC/2 A resistive load Minimum switch current 25 V ACZ Acos + 0-7, 126, 5 V ACZ ACA Acos + 0-7, 140 V DC/2 A resistive load Minimum switch current 25 V ACZ Acos + 0-7, 126, 5 V ACZ ACA Acos + 0-7, 140 V DC/2 A resistive load Minimum switch current 25 V ACZ Acos + 0-7, 126, 5 V ACZ ACA Acos + 0-7, 140 V DC/2 A resistive load Minimum switch current 25 V ACZ Acos + 0-7, 126, 5 V ACZ ACA Acos + 0-7, 140 V DC/2 A resistive load Minimum switch current 25 V ACZ Acos + 0-7, 126, 5 V ACZ ACA Acos + 0-7, 140 V DC/2 A resistive load			Digital input		
Rised to Unique			Power Pail or terminals 14 L 15-		
Ripple		- 11			
Name		O _n			
New		1			
Note		'n			
Imput					
Seminals 1, 2, 2, 3, 4, 5, 5, 6	•		< 1.5 W		
Rated values	•		Assessing to A. O. O. A. E. O.		
Open circult voltage/end-ricult curred 1.2. ≥ 2.1 m./ approx. 8 m.A Line fault detection breakage 1 ≤ 0.1 m.A., short-circuit 1 ≤ 6 m.A Pulse Pause ratio ≥ 20 ms / ≥ 20 ms Connection output 1. terminals 7, 8, 9; cutput II: terminals 10, 11, 12 Connection of Line III signal, relay Contact loading 253 V AC/2 Acos 9 > 0.7; 26, 5 V AC/4 Acos 9 > 0.7; 40 V DC/2 A resistive load Minimum switch current 2 m.A./ 24 D C Energized/De-energized delay approx. 20 ms. I approx. 20 ms. Mochanical IIII 107 switching cycles Transfer characteristics 5 to Hz Switching frequency 1 to Hz Electrical Isolation 107 switching cycles Input/Opper 107 switching cycles Transfer characteristics 5 to Hz Electrical Isolation 107 switching cycles Input/Opper 107 switching cycles Transfer characteristics 5 to Hz Electrical Isolation 107 switching cycles Input/Opper supply 107 switching cycles Clotup/Output 100 to Hz Directive conformity 100 to Hz					
Switching point/switching hysteresis 2					
Line fault delection	•		11		
Pulsar P		steresis			
Output Connection coutput I: terminals 7, 8, 9; output II: terminals 10, 11, 12 Contact loading 253 V AC/2 A/cos φ > 0.7; 126.5 V AC/4 A/cos φ > 0.7; 40 V DC/2 A resistive load Minimum witch current 2 mA / 224 V DC Energized/De-energized delay approx. 20 ms / approx. 20 ms Mechanical life 107 switching cycles Transfer characteristics 50 Hz Switching frequency 5 10 Hz Electrical isolation Input/Output Input/Output reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{ett} Output/power supply reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{ett} Directive conformity reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{ett} Directive 2006/95/EC EN 61326-1:2006 Conformity EN 61010-1:2010 Conformity EN 66039-2001 Electronagnetic compatibility No 66039-2001 Input EN 66039-2001 Roberted insulation in connection IEC 66039-2001 Begree of protection IEC 66039-2001 Bogree of protection IP20 Bogree of prote					
Connection output I. terminals 7, 8, 9; output II: terminals 10, 11, 12 Output I, II signal, relay Contact loading 253 V AC/2 Acos ♦ > 0.7; 126.5 V AC/4 A/oss ♦ > 0.7; 40 V DC/2 A resistive load Energized Obe-norigized delay Mechanical life 10 7 switching cycles Transfer characteristics 5.10 Hz Switching frequency 5.10 Hz Electrical isolation Input/Output 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} 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} 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} 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} reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} reinforced insulation according to IEC/EN 61010-1, rated voltage 300 V _{eff} Directive conformity Electromagnetic compatibility E	Pulse/Pause ratio		≥ 20 ms / ≥ 20 ms		
Output I, II signal, relay Contact loading 253 V AC/2 Alocs φ > 0.7; 126.5 V AC/4 Alocs φ > 0.7; 40 V DC/2 A resistive load Minimum switch current 2m A / 24 V DC Energized/De-energized delay approx. 20 ms / approx. 20 ms Mechanical III 10" switching cycles Transfer characteristics Switching frequency Electrical isolation Input/Output Input/Output reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} Output/Output reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} Flectromagnetic compatibility reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} Directive conformity Electromagnetic compatibility Directive 2006/95/EC EN 61326-1:2006 Conformity Electromagnetic compatibility NE 21:2006 Directive 2006/95/EC EN 61010-1:2010 Conformity Electromagnetic compatibility NE 21:2006 Directive 2006/95/EC EN 6100-1:2010 Conformity Electromagnetic compatibility NE 21:2006	•				
Contact loading	Connection		output I: terminals 7, 8, 9; output II: terminals 10, 11, 12		
Minimum switch current 2 mA / 24 V D C Energized De-energized delay approx. 20 ms approx. 20 ms mother including approx. 20 ms approx. 20 ms approx. 20 ms mother including approx. 20 ms approx. 20	Output I, II		signal, relay		
Energized/De-energized delay	Contact loading		253 V AC/2 A/cos ϕ > 0.7; 126.5 V AC/4 A/cos ϕ > 0.7; 40 V DC/2 A resistive load		
Mechanical life	Minimum switch current		2 mA / 24 V DC		
Transfer characteristics ≤ 10 Hz Electrical isolation 10 Hz Input/Output reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} Output/power supply reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} Output/Output reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} Output/Output reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} Directive conformity En 61326-1:2006 Electromagnetic compatibility EN 61326-1:2006 Directive 2006/95/EC EN 61010-1:2010 Conformity NE 21:2006 Electromagnetic compatibility NE 21:2006 Directive 2006/95/EC EN 60329-2001 Electromagnetic compatibility NE 21:2008 Begree of protection IEC 60529-2001 Input EN 60947-56-2000 Machanical specifications 1P20 Mass approx. 150 g Immensions 20 x 19x x 15 mm (0.8 x 4.7 x 4.5 in), housing type B2 Gorup, category, type of protection PTB 00 ATEX 2080, for additional certificates see www.pepperf-fuchs.com File	Energized/De-energized dela	ay	approx. 20 ms / approx. 20 ms		
Switching frequency	Mechanical life		10 ⁷ switching cycles		
Electrical isolation	Transfer characteristics				
Input/Output	Switching frequency		≤ 10 Hz		
Input/power supply	Electrical isolation				
Input/power supply			reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff}		
Output/power supply reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V _{eff} Output/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 Low voltage EN 61010-1:2010 Conformity NE 21:2006 Electromagnetic compatibility NE 21:2006 Degree of protection IEC 60529:2001 Input EN 60947-5-6:2000 Ambient temperature -20 60 °C (-4 140 °F) Mechanical specifications 1P20 Degree of protection IP20 Mass approx. 150 g Dimensions 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in), housing type B2 Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Data for application in connection with Ex-areas PTB 00 ATEX 2080, for additional certificates see www.pepperf-fuchs.com Group, category, type of protection FIB 00 ATEX 2080, for additional certificates see www.pepperf-fuchs.com Group, category, type of protection Ex ia Upower Po 34 mW (linear characteristic)	•		5 5.1		
Output/Output reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 Vert Directive conformity Directive 2008/95/EC EN 61026-1:2006 Directive 2008/95/EC EN 61010-1:2010 Conformity Electromagnetic compatibility NE 21:2006 Degree of protection IEC 60529:2001 Input EN 60947-5-6:2000 Ambient temperature -20 60 °C (-4 140 °F) Mechanical specifications approx. 150 g Dimensions 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in), housing type B2 Mounting 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in), housing type B2 Mounting 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in), housing type B2 Mounting 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in), housing type B2 Mounting 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in), housing type B2 Forthit Example Pro So Time Din mounting rail acc. to EN 60715:2001 Part of protection Base of application in connection with Example EC-Type Examination Certificate PTB 00 ATEX 2080, for additional certificates see www.pepperf-fuchs.com Group, category, type of protection <			3		
Directive conformity Electromagnetic compatibility			3.11		
Electromagnetic compatibility			Tellinosos incalation according to 125/21/07/07/07/17/1008 incalation follage occirent		
Directive 2004/108/EC	·				
Directive 2006/95/EC		,	FN 61326-1:2006		
Directive 2006/95/EC EN 61010-1:2010 Conformity NE 21:2006 Degree of protection LEC 60529:2001 Input EN 60947-5-6:2000 Ambient temperature CPU 60 °C (-4 140 °F) Mechanical specifications IP20 Mass LP20 Mass LP20 Mounting LP20 Mounting LP20 Mounting LP20 Mounting LP20 Dimensions LP20 Mounting LP20 Distriction in cornection with Exareas PPE 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 Douglate for application in cornection with Exareas PPE 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 Desprovable in the protection of the protection			LIVO1020 1.2000		
Degree of protection	<u> </u>		EN 61010-1-2010		
Electromagnetic compatibility Degree of protection Input EN 60947-5-6:2000 Ambient conditions Ambient temperature Mechanical specifications Degree of protection Mess Degree of protection Mass Degree of protection Mass Degree of protection Dimensions Degree of protection Mass Degree of protection Dimensions Degree of protection Data for application in connection with Ex-areas EC-Type Examination Certificate Group, category, type of protection Diput D			LN 01010-1.2010		
Degree of protection	•		NE 01,0006		
Input EN 60947-5-6:2000 Ambient conditions Ambient temperature -20 60 °C (-4 140 °F) Mechanical specifications Degree of protection IP20 Mass approx. 150 g Dimensions 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in), housing type B2 Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Data for application in connection with Ex-areas EC-Type Examination Certificate PTB 00 ATEX 2080 , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection Ex ia Ga] IIC (a) II (1)D [Ex ia Ga] IIC (a) II (1)D [Ex ia Ma] I Input Ex ia (Mi) [Ex ia Ma] I Input Ex ia (Mi) [Ex ia Ma] I Voltage Uo 10.5 V Current Io 13 mA Power Po 34 mW (linear characteristic) Supply Maximum safe voltage Um 253 V AC / 125 V DC (Attention! Um is no rated voltage.) Output Contact loading Um 253 V AC (Attention! The rated voltage can be lower.) Error message output Maximum safe voltage Um 40 V DC (Attention! Um is no rated voltage.)	, ,	у			
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Ambient temperature -20 60 °C (-4 140 °F) Mechanical specifications Degree of protection IP20 Amprox. 150 g Dimensions 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in), housing type B2 Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Data for application in connection with Ex-areas EC-Type Examination Certificate PTB 00 ATEX 2080, for additional certificates see www.pepperl-fuchs.com Group, category, type of proction © II (1)G [Ex ia Ga] IIC (S II (1)D [Ex ia Da] IIIC (S II (1)D [Ex ia Ma] I Ex ia Voltage Uo 10.5 V Current Io 13 mA Power Po 34 mW (linear characteristic) Supply Maximum safe voltage Um 253 V AC / 125 V DC (Attention! Um is no rated voltage.) Output 253 V AC /2 A/cos φ > 0.7; 126.5 V AC/4 A/cos φ > 0.7; 40 V DC/2 A resistive load Maximum safe voltage Um 253 V AC (Attention! Um is no rated voltage can be lower.) Error message output	•		EN 60947-5-6:2000		
Mechanical specifications IP20 Mass approx. 150 g Dimensions 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in), housing type B2 Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Data for application in connection with Ex-areas EC-Type Examination Certificate PTB 00 ATEX 2080, for additional certificates see www.pepperl-fuchs.com Group, category, type of protection Sill (1)0 [Ex ia Ga] IIC (w) II (1)0 [Ex ia Da] IIIC III (1)0 [Ex ia Da] IIIC (v) Oltage Uo 10.5 V Current Io 13 mA Power Po 34 mW (linear characteristic) Supply 253 V AC / 125 V DC (Attention! U _m is no rated voltage.) Output 253 V AC / 2 A/cos φ > 0.7; 126.5 V AC/4 A/cos φ > 0.7; 40 V DC/2 A resistive load Maximum safe voltage U _m 253 V AC (Attention! The rated voltage can be lower.) Error message output Maximum safe voltage U _m 40 V DC (Attention! U _m is no rated voltage.) Maximum safe voltage U _m 40 V DC (Attention! U _m is no rated voltage.)					
Degree of protection IP20 Mass approx. 150 g Dimensions 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in), housing type B2 Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Data for application in connection with Ex-areas EC-Type Examination Certificate PTB 00 ATEX 2080, for additional certificates see www.pepperl-fuchs.com Group, category, type of protection I (1)G [Ex ia Ga] IIC (2) (M1) [Ex ia Ma] I Input Ex ia Voltage Uo 10.5 V Current Io 13 mA Power Po 34 mW (linear characteristic) Supply Maximum safe voltage Um 253 V AC / 125 V DC (Attention! Um is no rated voltage.) Output 253 V AC/2 A/cos φ > 0.7; 126.5 V AC/4 A/cos φ > 0.7; 40 V DC/2 A resistive load Maximum safe voltage Um 253 V AC (Attention! The rated voltage can be lower.) Error message output Maximum safe voltage Um 40 V DC (Attention! Um is no rated voltage.)	·		-20 60 °C (-4 140 °F)		
Mass approx. 150 g Dimensions 20 x 119 x 115 mm (0.8 x 4.7 x 4.5 in) , housing type B2 Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Data for application in connection with Ex-areas EC-Type Examination Certificate PTB 00 ATEX 2080 , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection	•				
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Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 Data for application in connection with Ex-areas EC-Type Examination Certificate PTB 00 ATEX 2080 , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection Sill (1)G [Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Da] IIIC [Ex ia Ma] I Input Ex ia Voltage Uo 10.5 V Current Io 3 mA Power Po 34 mW (linear characteristic) Supply Maximum safe voltage Um 253 V AC / 125 V DC (Attention! Um is no rated voltage.) Output Contact loading 253 V AC/2 A/cos φ > 0.7; 126.5 V AC/4 A/cos φ > 0.7; 40 V DC/2 A resistive load Maximum safe voltage Um 253 V AC (Attention! The rated voltage can be lower.) Error message output Maximum safe voltage Um 40 V DC (Attention! Um is no rated voltage.)			approx. 150 g		
Data for application in connection with Ex-areas EC-Type Examination Certificate PTB 00 ATEX 2080 , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection Image: see www.pepperl-fuchs.com Group, category, type of protection Image: see www.pepperl-fuchs.com Input Image: see www.pepperl-fuchs.com Input Image: see www.pepperl-fuchs.com Input Ex ia Voltage Uo 10.5 V Current Io 13 mA Power Po 34 mW (linear characteristic) Supply Adaximum safe voltage Um 253 V AC / 125 V DC (Attention! Um is no rated voltage.) Output Contact loading 253 V AC /2 A/cos φ > 0.7; 126.5 V AC/4 A/cos φ > 0.7; 40 V DC/2 A resistive load Maximum safe voltage Um 253 V AC (Attention! The rated voltage can be lower.) Error message output Waximum safe voltage Um 40 V DC (Attention! Um is no rated voltage.)	Dimensions		, , , , , , , , , , , , , , , , , , ,		
### BY AC A CALCENTION CONTROLL STORMS AT A CALCENTION CONTRO	•		on 35 mm DIN mounting rail acc. to EN 60715:2001		
EC-Type Examination Certificate PTB 00 ATEX 2080 , for additional certificates see www.pepperl-fuchs.com Group, category, type of protection Group, category, type of type of type of type of the protection Group, category, type of ty	• •	nection			
Group, category, type of protection Sill (1)D [Ex ia Ga] IIC II (1)D [Ex ia Da] IIIC II (1)D [Ex ia Da] IIIC II (1)D [Ex ia Ma] I					
Input Ex ia Da] IIIC Input Ex ia Voltage Uo	EC-Type Examination Certificate		_		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Group, category, type of protection		⟨█⟩ II (1)D [Ex ia Da] IIIC		
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Maximum safe voltage U_m 253 V AC / 125 V DC (Attention! U_m is no rated voltage.) Output Contact loading 253 V AC/2 A/cos $\phi > 0.7$; 126.5 V AC/4 A/cos $\phi > 0.7$; 40 V DC/2 A resistive load Maximum safe voltage U_m 253 V AC (Attention! The rated voltage can be lower.) Error message output Maximum safe voltage U_m 40 V DC (Attention! U_m is no rated voltage.)		' 0	o i initi (inicali orialiacionolio)		
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Contact loading $ 253 \text{ V AC/2 A/cos } \phi > 0.7; 126.5 \text{ V AC/4 A/cos } \phi > 0.7; 40 \text{ V DC/2 A resistive load} $ $ \text{Maximum safe voltage} \qquad \text{U}_{\text{m}} \qquad 253 \text{ V AC (Attention! The rated voltage can be lower.)} $ $ \text{Error message output} \qquad \text{Maximum safe voltage} \qquad \text{U}_{\text{m}} \qquad 40 \text{ V DC (Attention! U}_{\text{m}} \text{ is no rated voltage.)} $	•	O _m	200 V AO / 120 V DO (Attention: Om is no fateu voltage.)		
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Error message output Maximum safe voltage U _m 40 V DC (Attention! U _m is no rated voltage.)	-				
Maximum safe voltage U _m 40 V DC (Attention! U _m is no rated voltage.)	•	U _m	253 V AC (Attention! The rated voltage can be lower.)		
	¥ :				
Statement of conformity PF 08 CFRT 0803					
THE OF CONTROLLING	Statement of conformity		PF 08 CERT 0803		



Group, category, type of protection		(x) II (3)G [Ex ic Gc] IIC		
Input		Exic		
Voltage U _o		10.5 V		
Current	Io	13 mA		
Power P _o		34 mW (linear characteristic)		
Output				
Contact loading		253 V AC/2 A/cos ϕ > 0.7; 126.5 V AC/4 A/cos ϕ > 0.7; 40 V DC/2 A resistive load		
Statement of conformity		TÜV 99 ATEX 1493 X , observe statement of conformity		
Group, category, type of protection, temperature class		€ II 3G Ex nA nC IIC T4		
Output				
Contact loading		50 V AC/4 A/cos φ > 0.7; 40 V DC/2 A resistive load		
Electrical isolation				
Input/Output		safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V		
Input/power supply		safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V		
Directive conformity				
Directive 94/9/EC		EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010		
International approvals	5			
FM approval				
Control drawing		116-0035		
CSA approval				
Control drawing		116-0047		
IECEx approval		IECEx PTB 11.0034		
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.pepperl-fuchs.com.		

Configuration



Switch position

S	Fu	Position	
1	Mode of operation	with high input current	ı
	Output I (relay) energized	with low input current	II
2	Mode of operation	with high input current	I
	Output II (relay) energized	with low input current	II
3	Line fault detection	ON	I
		OFF	II

Operating status

Control circuit	Input signal
Initiator high impedance/ contact opened	low input current
Initiator low impedance/ contact closed	high input current
Lead breakage, lead short-circuit	Line fault

Factory settings: switch 1, 2 and 3 in position I

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!