## Features

- · 1-channel signal conditioner
- · Universal usage at different power supplies
- Dry contact or NAMUR inputs
- Input frequency 1 mHz ... 12 kHz
- · 2 relay contact outputs
- · Start-up override
- · Configurable by keypad
- Line fault detection (LFD)
- Up to SIL2 acc. to IEC 61508/IEC 61511

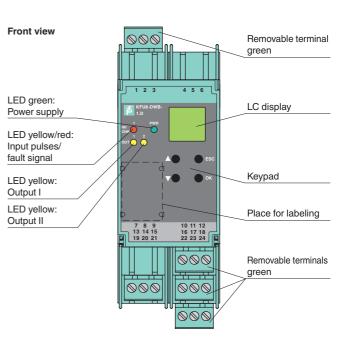
## **Function**

This signal conditioner monitors an overspeed or underspeed condition of a digital signal (NAMUR sensor/mechanical contact) by comparing the input frequency to the user programmed reference frequency.

An overspeed or underspeed condition is signaled via the relay outputs. Line fault detection of the field circuit is indicated by a red LED and relay. The startup override feature sets relay outputs to default conditions programmed by the user for up to 1,000 seconds.

The unit is easily programmed by the use of a keypad located on the front of the unit.

For additional information, refer to the manual and www.pepperl-fuchs.com.

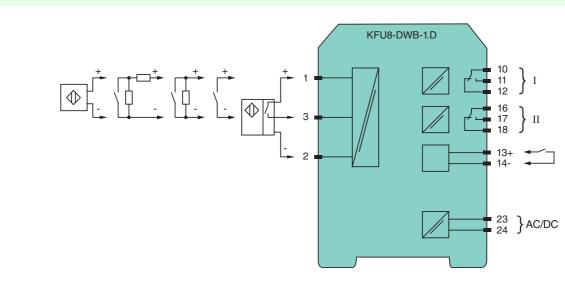


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Assembly

SIL 2

## Connection



Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0002 pa-info@us.pepperl-fuchs.com

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Constant         Dights Input           Signal type         Dights Input           Signal type         Emminals 23, 24           Shands         U,         20	General specifications	
SuppNumber of the second s	•	Digital Input
Connectionterminals 23, 24Bated valageU,		
Batel oursel         U,         2090 VDC / 4233 VAC 5060 Hz           Batel oursel         opprox 100 noA           Batel oursel         opprox 100 noA           Batel oursel         space 20 noA           Connection         18 W 2 VA / 1.8 W 2 VA / 1.8 W 2 VA           Input         braining 11 2 2 vice sensor terminals 1+, 4.5 where viers sensor terminals 1+, 2- and 3 input 18 with sensor terminals 1+, 4.5 where viers sensor terminals 1+, 2- and 3 input 18 with sensor terminals 1+, 4.5 where viers sensor terminals 1+, 2- and 3 with respensor terminals 1+, 2- and 3 with respensor 2 2 V / 40 ms           Open circuit voltage/short-circuit 1+, 4 with viers sensor terminals 1+, 4.5 where viers sensor terminals 1+, 2- and 3 with respensor 2 2 V / 40 ms         2 2 V / 40 ms           Open circuit voltage/short-circuit 1+, 4 with viers sensor terminals 1+, 4.5 where viers sensor terminals 1+, 2- and 3 with respensor 2 2 V / 40 ms         2 2 V / 40 ms           Swatching point/switching ystemas         1 opt 1: 25 mA / 100 for 2 1.0 mA         2 2 V / 40 ms           Lisa dimontring         1 opt 1: 25 mA / 100 for 2 1.0 mA         1 opt 1: 100 ms           Contraut voltage/short-circuit 1- 1000 rs         1 - 4 mA (r ring 1- 1.0 mo           Opt 1: 11         S signal: role ystemas         2 opt 1: 10 ms           Contraut voltage/short-circuit 1- 4 mA         1 = 1 + 10 for 1.0 ms           Contraut voltage/short-circuit 1- 4 mA         1 = 1 + 10 for 1.0 ms           <		terminale 22, 24
Rated commitip on the main of the main o		
Power dissipation/power consumption         1.3 W ; 2 VA / 1.8 W ; 2 VA           Imput         Final Construction         Power dissipation/power construction within some vice sensor: terminals 1 + .4 - stint or within sensor: terminals 1 + .4 - sti		
input         Image: Series and the series is the senie is the s		
Connection         Input: 1: -wire sensor: terminals 1+, 3- mere wire sensor: terminals 1-, 5- ma           Imput 1         Exact Sense sensor: sensor aco: to EN 60947-5-6 (NAMUR) or mechanical contact           Imput 1         Sensor: S		≤1.8 W; 2 VA/1.8 W; 2 VA
input I: terminal 13.4.1.4 start-up overfide;Input I2: 67 avrice sensor, sensor acc. to EN 60947-56 (NAMUR) or mechanical contactinput I2: 2/ 1/40 nAinput resistance4.7 kQInput resistance4.7 kQSwitching pointswitching hysteresislogo 1: 2: 5 m A; logi 0: <1.9 m A	-	
Line fundDeclage 12 015 m/s. short-circuit 1 > 6 m/s.Imput2-0 4 3 m/s. short-circuit 12Imput onicuit voltage/short-circuit22 V / 40 m/sCorrent22 V / 40 m/sSmitching points/witching hysteresis100 (1 - 2.2.5 m/s. 100 (0 - 2.1.9 m/s)Imput resistance4.7 kQSmitching points/witching hysteresis100 (1 - 1.200 HzImput requency00 (1 - 1.200 HzLead monitoringBreakage 1.5.1.5 m/s. short-circuit 1 > 4 m/sImput requency10 - 4 m/s. doi:n.:100.0.m.; adjustable in steps of 1 sActive/Pasica12 + m/s (0 m.:.100 m.s) / 1 < 1.5 m/s	Connection	
Input I         2× or 3-wire sensor acc. to EN 60047-5-6 (NAMUR) or mechanical contact           Open circui voltage/short-circuit         22 V / 40 mA           Input resistance         4,7 KJ           Swhching pointswichning hyster         logic 1: > 2.5 mA, logic 0: < 1.9 mA	Line fourth determine	
Open circuit voltage/short-circuit current         22 V / 40 mA           Input resistance         4,7 kΩ           Switching pointswitching hysteresis         logic 1:> 2.5 m A; logic 0:< 1.9 m A		
Switching point/switching hysteresia         logic 1: > 2.5 mA; logic 0: <1.9 mA	Open circuit voltage/short-circuit	
Pulse duration         > 50 µs           Input frequency         0.001 12000 Hz           Lead monitoring         breakage I 5.015 mÅ; short-circuit I > 4 mA           Input II         startup override 1 1000 s, adjustable in steps of 1 s           Active/Passive         I > 4 mA for min. 100 ms) /I < 1.5 mA	Input resistance	4.7 kΩ
Input frequency         0.00 <sup>1</sup> 12000 Hz           Lead monitoring         breakage 15:0.15 mA; short-circuit 1 > 4 mA           Input II         Startup overde: 1 1000 s, adjustable in steps of 1 s           Active/Passiva         1 > 4 mA (for min. 100 ms) / 1 < 1.5 mA	Switching point/switching hysteresis	logic 1: > 2.5 mA ; logic 0: < 1.9 mA
Lead monitoring         breakage I ≤ 0.15 mA; short-circuit I > 4 mA           Input II         Is atrup override: 1 1000 s, algistable in steps of 1 s           Active/Passive         I > 4 m (for min. 100 ms) / I < 1.5 mA	Pulse duration	> 50 µs
Lead monitoring         breakage   ≤ 0.15 mÅr; short-circuit   > 4 mÅ           Input II         startup override: 1 1000 s, adjustable in steps of 1 s           Active/Passive         1 > 4 mÅ (for min, 100 mg) /   < 1.5 mÅ	Input frequency	•
Input II         startup override: 1 1000 s, adjustable in steps of 1 s           Active/Passive         1 > 4 mA (10r min. 100 ms) / 1 < 1.5 mA		
Active/Passive       I > 4 mA (for min. 100 ms) / I < 1.5 mA		-
Open arcuit voltage/short-circuit current         18 V / 5 mA           Output         output 1: terminals 10, 11, 12 output 1: terminals 10, 11, 12 output 1: terminals 10, 11, 12 output 1: terminals 10, 11, 12           Contection         signal, relay           Contact loading         250 V AC / 2 A / cos ◊ ≥ 0.7; 40 V D / 2 A           Mechanical life         5 x 10 <sup>2</sup> switching cycles           Energized/De-energized delay         approx. 20 ms / approx. 20 ms           Transfer characteristics         approx. 20 ms / approx. 20 ms           Input 1         .001 12000 Hz           Measurement range         0.01 12000 Hz           Resolution         0.1 % of measured value, > 0.001 Hz           Accuracy         0.1 % of measured value, > 0.001 Hz           Accuracy         0.03 %/K (30 pm)           Output 1. II         Resolution           Resolution         colos %/K (30 pm)           Output 1. II         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Putput 1. II approxembel terminet         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Start-up override/power suppty         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive 2006/9/SEC         EN 61010-1:2010           Contormity         EE co	•	
Output         Iterminals 10, 11, 12 output II: terminals 10, 11, 12 output II: terminals 10, 17, 18           Output I, II         signal, relay           Contact loading         250 V AC / 2 A / cos \$ ≥ 0.7; 40 V DC / 2 A           Mechanical IIIE         5 x 10 <sup>2</sup> switching cycles           Energized/De-energized Oleay         approx. 20 ms / approx. 20 ms           Transfer characteristics	Open circuit voltage/short-circuit	
Connection         output I: terminals 10, 11, 12 output II: terminals 16, 17, 18           Output I, II         signal, relay           Contact loading         250 V AC / 2 A / cos $\varphi > 0.7$ ; 40 V DC / 2 A           Mechanical life         5 x 10 <sup>7</sup> switching cycles           Energized/De-energized delay         approx. 20 ms / approx. 20 ms           Transfer characteristics		
output II: terminals 16, 17, 18           Output II: terminals 16, 17, 18           Signal, relay           Contact loading         250 V AC / 2 A / cos § 2 0.7; 40 V DC / 2 A           Mechanical life         5 x 10 <sup>7</sup> switching cycles           Energized/De-energized delay         approx. 20 ms / approx. 20 ms           Transfer characteristics		output I: terminals 10, 11, 12
Output I, II         signal, relay           Contact leading         250 V AC / 26 A / cos § 2.0.7; 40 V DC / 2 A           Mechanical life         5 x 10 <sup>6</sup> switching cycles           Energized/De-energized delay         approx. 20 ms / approx. 20 ms           Transfer characteristics		
Contact loading         250 V AC / 2 A / cos φ ≥ 0.7 ; 40 V DC / 2 A           Mechanical life         5 x 10 <sup>7</sup> switching cycles           Energized/be-energized delay         approx. 20 ms / approx. 20 ms           Transfer characteristics	Output I. II	•
Mechanical life         5 x 10 <sup>7</sup> switching cycles           Energized/De-energized delay         approx. 20 ms / approx. 20 ms           Transfer characteristics         approx. 20 ms / approx. 20 ms           Input I         Measurement range         0.001 12000 Hz           Measurement range         0.01% of measured value , > 0.001 Hz         Accuracy           Accuracy         0.1% of measured value , > 0.001 Hz         Accuracy           Accuracy         0.003 %K (30 ppm)         Output 1, II           Response delay         ≤ 200 ms         Electrical isolation           Input folder circuits         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Output 1, II appinst eachother         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Output 1, II appinst eachother         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Output 1, II orber circuits         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive conformity         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive 2006/95/EC         EN 61326-1:2006           Low voltage         -           Directive 2006/95/EC         EN 61010-1:2010           Conformity		
Energized/De-energized delay         approx. 20 ms/approx. 20 ms           Transfer characteristics         approx. 20 ms/approx. 20 ms           Input I         0.001 12000 Hz           Measurement range         0.01 % of measured value, > 0.001 Hz           Resolution         0.1 % of measured value, > 0.001 Hz           Measuring time         < 100 ms           Influence of ambient temperature         0.003 %/K (30 ppm)           Output I, II         Eesponse delay         ≤ 200 ms           Electrical isolation         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Output I, II against eachother         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Output I, II against eachother         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Output I, II against eachother         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive conformity         ENErgional         Energional           Directive 2004/108/EC         EN 61326-1:2006         EN 61326-1:2006           Low voltage         EN 61010-1:2010         Energional         EC 20052:2001           Ambient temperature         -20		
Transfer characteristics         Input I           Input I         Input I           Measurement range         0.001 12000 Hz           Resolution         0.1 % of measured value , > 0.001 Hz           Accuracy         0.1 % of measured value , > 0.001 Hz           Measuring time         < 100 ms		
Input IInput IMeasurement range0.001 12000 HzResolution0.1% of measured value , > 0.001 HzAccuracy0.1% of measured value , > 0.001 HzMeasuring time< 100 ms		
Measurement range0.001 12000 HzResolution0.1 % of measured value , > 0.001 HzAccuracy0.1 % of measured value , > 0.001 HzMeasuring time< 100 ms		
Resolution0.1 % of measured value , $\geq 0.001$ HzAccuracy0.1 % of measured value , $\geq 0.001$ HzMeasuring time<100 ms		0.001 12000 Hz
Accuracy         0.1 % of measured value , > 0.001 Hz           Measuring time         < 100 ms	č	
Measuring time         < 100 ms		
Influence of ambient temperature         0.003 %/K (30 ppm)           Output I, II         Comparison           Response delay         ≤ 200 ms           Electrical isolation         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Output I, II against eachother         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Output I, II/other circuits         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Start-up override/power supply         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive conformity         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive conformity         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive 2004/108/EC         EN 61326-1:2006           Low voltage         EN 61010-1:2010           Directive 2006/95/EC         EN 61010-1:2010           Conformity         Electromagnetic compatibility           Degree of protection         IEC 60529:2001           Ambient conditions         -           Ambient temperature         -20 60 °C (-4 140 °F)           Mechanical specifications         Directive conformity           Degree of protection         IP20		
Output I, II         Gesponse delay         ≤ 200 ms           Electrical isolation         Filter Company (Company) (C	÷	
Response delay         ≤ 200 ms           Electrical isolation         Filter circuits		0.003 %/K (30 ppm)
Electrical isolation         Input I/other circuits         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Output I, II against eachother         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Output I, II/other circuits         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Start-up override/power supply         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive conformity         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive conformity         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive conformity         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive 2004/108/EC         EN 61326-1:2006           Low voltage         EN 61010-1:2010           Directive 2006/95/EC         EN 61010-1:2010           Conformity         Electonagnetic compatibility           Degree of protection         IE (2 60529:2001           Ambient conditions         -2060 °C (-4 140 °F)           Mechanical specifications         -2060 °C (-4 140 °F)           Directive of protection         IP20           Mass         300 g           Directive of protection	• •	
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Output I, II/other circuits         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Start-up override/power supply         reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive conformity         Electromagnetic compatibility           Directive 2004/108/EC         EN 61326-1:2006           Low voltage         EN 61010-1:2010           Conformity         Electromagnetic compatibility           Directive 2006/95/EC         EN 61010-1:2010           Conformity         Electromagnetic compatibility           Degree of protection         IEC 60529:2001           Ambient conditions         -20 60 °C (-4 140 °F)           Mechanical specifications         IP20           Mass         300 g           Dimensions         40 x 119 x 115 mm (1.6 x 4.7 x 4.5 in), housing type C3           Mounting         on 35 mm DIN mounting rail acc. to EN 60715:2001           General information         Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be	•	
Start-up override/power supply       reinforced insulation according to IEC/EN 61010-1, rated insulation voltage 300 V <sub>eff</sub> Directive conformity       Electromagnetic compatibility         Directive 2004/108/EC       EN 61326-1:2006         Low voltage       EN 61010-1:2010         Directive 2006/95/EC       EN 61010-1:2010         Conformity       Electromagnetic compatibility         Directive 2006/95/EC       EN 61010-1:2010         Conformity       NE 21:2006         Degree of protection       IEC 60529:2001         Ambient conditions		
Directive conformity         Instrument           Electromagnetic compatibility         EN 61326-1:2006           Low voltage         EN 61326-1:2006           Low voltage         EN 61010-1:2010           Conformity         Electromagnetic compatibility           Electromagnetic compatibility         NE 21:2006           Degree of protection         IEC 60529:2001           Ambient conditions         -20 60 °C (-4 140 °F)           Mechanical specifications         -20 60 °C (-4 140 °F)           Degree of protection         IP20           Mass         300 g           Dimensions         40 x 119 x 115 mm (1.6 x 4.7 x 4.5 in), housing type C3           Mounting         on 35 mm DIN mounting rail acc. to EN 60715:2001           Supplementary information         Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be	•	
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Ambient conditions	Electromagnetic compatibility	NE 21:2006
Ambient temperature-20 60 °C (-4 140 °F)Mechanical specifications	Degree of protection	IEC 60529:2001
Mechanical specifications         IP20           Degree of protection         300 g           Dimensions         40 x 119 x 115 mm (1.6 x 4.7 x 4.5 in), housing type C3           Mounting         on 35 mm DIN mounting rail acc. to EN 60715:2001           General information         Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be	Ambient conditions	
Degree of protection         IP20           Mass         300 g           Dimensions         40 x 119 x 115 mm (1.6 x 4.7 x 4.5 in), housing type C3           Mounting         on 35 mm DIN mounting rail acc. to EN 60715:2001           General information         Supplementary information           Supplementary information         Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be	Ambient temperature	-20 60 °C (-4 140 °F)
Mass     300 g       Dimensions     40 x 119 x 115 mm (1.6 x 4.7 x 4.5 in), housing type C3       Mounting     on 35 mm DIN mounting rail acc. to EN 60715:2001       General information     Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be	Mechanical specifications	
Mass     300 g       Dimensions     40 x 119 x 115 mm (1.6 x 4.7 x 4.5 in), housing type C3       Mounting     on 35 mm DIN mounting rail acc. to EN 60715:2001       General information     Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be	Degree of protection	IP20
Dimensions       40 x 119 x 115 mm (1.6 x 4.7 x 4.5 in) , housing type C3         Mounting       on 35 mm DIN mounting rail acc. to EN 60715:2001         General information       Supplementary information of Conformity, Attestation of Conformity and instructions have to be	• ·	300 g
Mounting         on 35 mm DIN mounting rail acc. to EN 60715:2001           General information         Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be	Dimensions	
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Pepperl+Fuchs Group www.pepperl-fuchs.com

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## **Maximum Switching Power of Output Contacts**

