CE



- 1-channel
- Control circuit EEx ia IIC
- Input frequency 0.001 Hz ... 5 kHz
- Analogue output 0/4 mA ... 20 mA ٠
- Measuring range parameterisable ٠
- 2 relay outputs
- 1 electronic output, isolated
- · Each output can be assigned individual parameters, such as a trip value (high/low alarm), serially switched output, pulse divider or error message output
- Start-up override
- Restart inhibit
- Lead breakage (LB) monitoring and ٠ short-circuit (SC) monitoring
- Bounce filter
- Up to SIL2 acc. to IEC 61508

24 V DC KFD2-UFC-Ex1

(without control panel)

Function

The universal frequency converter KFD2-UFC-Ex1 converts an input frequency into a frequency-proportional current and offers at the same time the possibility to monitor the trip values.

The frequency value for the minimum (0 mA or 4 mA) and the maximum output current (20 mA) is freely parameterisable.

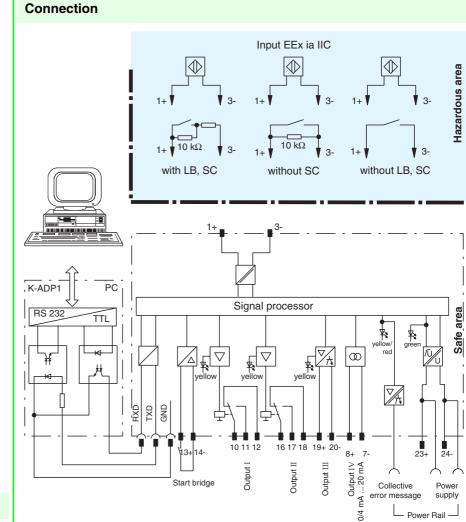
Also the functions of the switch outputs (2 relay outputs and 1 potential free transistor output) are freely adjustable [trip value display (MIN/MAX alarm), serially switched output, pulse divider output, error signal output].

A start-up override that can be activated externally is integrated as well. The maximum input frequency is 5 kHz.

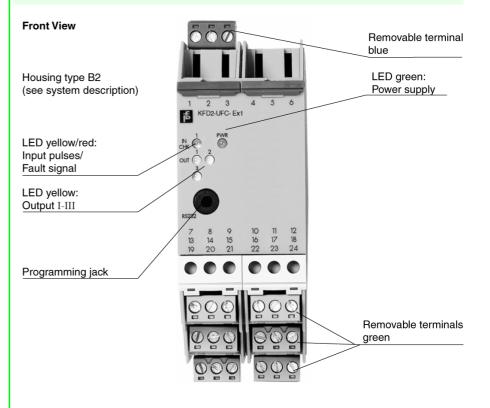
The input and output circuits are galvanically isolated.

The KFD2-UFC-Ex1 can be supplied via the Power Rail, which also transfers the collective error message.

The device can be adjusted by means of the software.



Composition



Subject to reasonable modifications due to technical advances Pepperl+Fuchs Group • Tel.: Germany +49 621 776-0 • USA +1 330 4253555 • Singapore +65 67799091 • Internet http://www.pepperl-fuchs.com

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- Power Rail —

Technical data

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Technical data

NE 21
IEC 60529
IEC 61140
EN 60947-5-6
-20 60 °C (253 333 K)
IP20
300 g
40 x 100 x 115 mm (1.6 x 3.9 x 4.5 in)
TÜV 99 ATEX 1471 , for additional certificates see www.pepperl-fuchs.com
⟨Ex⟩ II (1) G D [EEx ia] IIC [circuit(s) in zone 0/1/2]
40 V DC (Attention! U _m is no rated voltage.)
terminals 1+, 3- EEx ia IIC
10.1 V
13 mA
34 mW (linear characteristic)
terminals 13+, 14- non-intrinsically safe
40 V DC (Attention! U _m is no rated voltage.)
terminals 10, 11, 12; 16, 17, 18 non-intrinsically safe
253 V AC / 40 V DC (Attention! U _m is no rated voltage.)
253 V AC / 2 A / cos $φ$ > 0.7; 40 V DC / 2 A resistive load (TÜV 99 ATEX 1471) 50 V AC / 2 A / cos $φ$ > 0.7; 40 V DC / 2 A resistive load (TÜV 02 ATEX 1885 X)
terminals 19+, 20- non-intrinsically safe
40 V DC (Attention! U _m is no rated voltage.)
terminals 8+, 7- non-intrinsically safe
40 V DC (Attention! U _m is no rated voltage.)
RS 232
40 V DC (Attention! U _m is no rated voltage.)
TÜV 02 ATEX 1885 X, observe statement of conformity
, 🐼 II 3 G EEx nAC IIC T4 [device in zone 2]
safe electrical isolation acc. to EN 50020, voltage peak value 375 V
EN 50014, EN 50020, EN 50021

Supplementary information

EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed. For information see www.pepperl-fuchs.com.

Accessories

- Power Rail PR-03
- Power Rail UPR-03

Power feed module KFD2-EB2...

Using Power Rail PR-03 or UPR-03 the devices are supplied with 24 V DC by means of the power feed modules. If no Power Rails are used, power supply of the individual devices is possible directly via their device terminals.

Each power feed module is used for fusing and monitoring groups with up to 100 individual devices. The Power Rail PR-03 is an inset component for the DIN rail. The Power Rail UPR-03 is a complete unit consisting of the electrical inset and an aluminium profile rail 35 mm x 15 mm x 2000 mm. To make electrical contact, the devices are simply engaged.

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

PACT*ware*[™]

Device-specific drivers (DTM)

Adapter K-ADP1

Interface adapter for connecting with the serial interface of a PC/Notebook.

interia

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