



## Technical Data

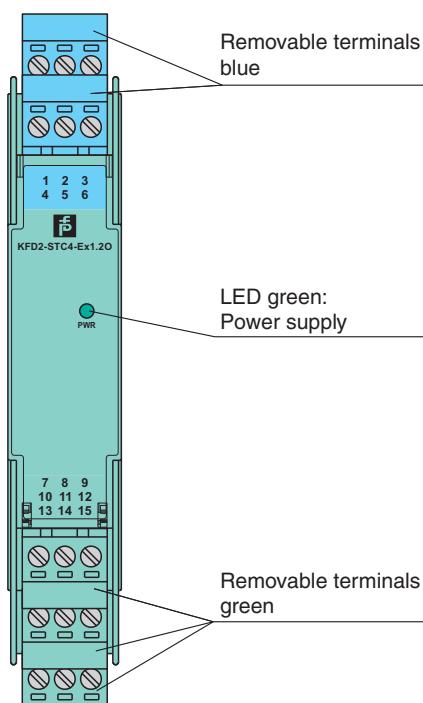
Connection	Power Rail or terminals 14+, 15-	
Rated voltage	$U_r$	20 ... 35 V DC
Ripple	within the supply tolerance	
Power dissipation	1.8 W	
Power consumption	2.4 W	
<b>Input</b>		
Connection side	field side	
Connection	terminals 1+, 2-, 3 or 5-, 6+	
Input signal	0/4 ... 20 mA	
Open circuit voltage/short-circuit current	terminals 1+, 3-: 22.7 V / 38 mA	
Voltage drop	terminals 5, 6 : $\leq 2.4$ V at 20 mA	
Input resistance	terminals 2-, 3: max. 76 $\Omega$ terminals 1+, 3: max. 500 $\Omega$ (250 $\Omega$ load)	
Available voltage	terminals 1+, 3: $\geq 16$ V at 20 mA	
<b>Output</b>		
Connection side	control side	
Connection	terminals 7-, 8+, 9; 10-, 11+, 12	
Load	0 ... 550 $\Omega$ at 20 mA	
Output signal	0/4 ... 20 mA (overload $> 25$ mA)	
Ripple	max. 50 $\mu$ A <sub>rms</sub>	
<b>Transfer characteristics</b>		
Deviation	at 20 °C (68 °F), 0/4 ... 20 mA $\leq 10 \mu$ A incl. calibration, linearity, hysteresis, loads and fluctuations of supply voltage	
Influence of ambient temperature	0.25 $\mu$ A/K	
Frequency range	field side into the control side: bandwidth with 0.5 V <sub>pp</sub> signal 0 ... 7.5 kHz (-3 dB) control side into the field side: bandwidth with 0.5 V <sub>pp</sub> signal 0.3 ... 7.5 kHz (-3 dB)	
Settling time	200 $\mu$ s	
Rise time/fall time	20 $\mu$ s	
<b>Galvanic isolation</b>		
Output/power supply	functional insulation, rated insulation voltage 50 V AC	
Output/Output	functional insulation, rated insulation voltage 50 V AC	
<b>Indicators/settings</b>		
Display elements	LED	
Labeling	space for labeling at the front	
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)	
<b>Conformity</b>		
Electromagnetic compatibility	NE 21:2011	
Degree of protection	IEC 60529:2001	
Protection against electrical shock	UL 61010-1:2012	
<b>Ambient conditions</b>		
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)	
<b>Mechanical specifications</b>		
Degree of protection	IP20	
Connection	screw terminals	
Mass	approx. 200 g	
Dimensions	20 x 124 x 115 mm (0.8 x 4.9 x 4.5 inch), (W x H x D) housing type B2	
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001	
<b>Data for application in connection with hazardous areas</b>		
EU-type examination certificate	BAS 99 ATEX 7060 X	
Marking	Ex II (1)G [Ex ia Ga] IIC, Ex II (1)D [Ex ia Da] IIIC, Ex I (M1) [Ex ia Ma] I	
Input	[Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I	
Supply		

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Maximum safe voltage	$U_m$	250 V (Attention! The rated voltage can be lower.)
Equipment		terminals 1+, 3-
Voltage	$U_o$	25.4 V
Current	$I_o$	86.8 mA
Power	$P_o$	551 mW
Internal capacitance	$C_i$	12 nF
Internal inductance	$L_i$	0 mH
Equipment		terminals 2-, 3
Current	$I_o/\text{Strom } I_i$	74 mA / 115 mA
Current	$I_i$	115 mA
Voltage	$U_o$	3.5 V
Current	$I_o$	74 mA
Power	$P_o$	64 mW
Equipment		terminals 1+, 2 / 3-
Voltage	$U_i$	30 V
Current	$I_i$	115 mA
Voltage	$U_o$	25.4 V
Current	$I_o$	115 mA
Power	$P_o$	584 mW
Equipment		terminals 5-, 6+
Voltage	$U_i$	30 V
Current	$I_i$	115 mA
Voltage	$U_o$	8.7 V
Current	$I_o$	0 mA
Output		
Maximum safe voltage	$U_m$	250 V (Attention! The rated voltage can be lower.)
Certificate		TÜV 99 ATEX 1499 X
Marking		Ex II 3G Ex nA II T4 [device in zone 2]
Galvanic 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 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010
International approvals		
UL approval		
Control drawing		116-0428 (cULus)
IECEx approval		
IECEx certificate		IECEx BAS 04.0016X IECEx CML 15.0055X
IECEx marking		[Ex ia Ga] IIC , [Ex ia Da] IIIC , [Ex ia Ma] I Ex nA IIC T4 Gc
General information		
Note		Both output loads must be connected to ensure complete and correct operation within the technical specification. Open circuit of one of the two outputs will not affect the connected output, but would result in a loss of transmitter supply voltage of up to 0.7 Volt.
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

## Assembly

### Front view



## Matching System Components

	<b>KFD2-EB2</b>	Power Feed Module
	<b>UPR-03</b>	Universal Power Rail with end caps and cover, 3 conductors, length: 2 m
	<b>UPR-03-M</b>	Universal Power Rail with end caps and cover, 3 conductors, length: 1,6 m
	<b>UPR-03-S</b>	Universal Power Rail with end caps and cover, 3 conductors, length: 0.8 m
	<b>K-DUCT-BU</b>	Profile rail, wiring comb field side, blue
	<b>K-DUCT-BU-UPR-03</b>	Profile rail with UPR-03- * insert, 3 conductors, wiring comb field side, blue

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## Accessories

	<b>KF-STP-5BU</b>	Terminal block for KF modules, 3-pin screw terminal, with test sockets, blue
	<b>KF-STP-5GN</b>	Terminal block for KF modules, 3-pin screw terminal, with test sockets, green
	<b>KF-ST-5GN</b>	Terminal block for KF modules, 3-pin screw terminal, green
	<b>KF-CP</b>	Red coding pins, packaging unit: 20 x 6

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

## Configuration

### Configuration active output (source)

If only one output of the two outputs is used, a plug-in jumper have to be set as follows.

