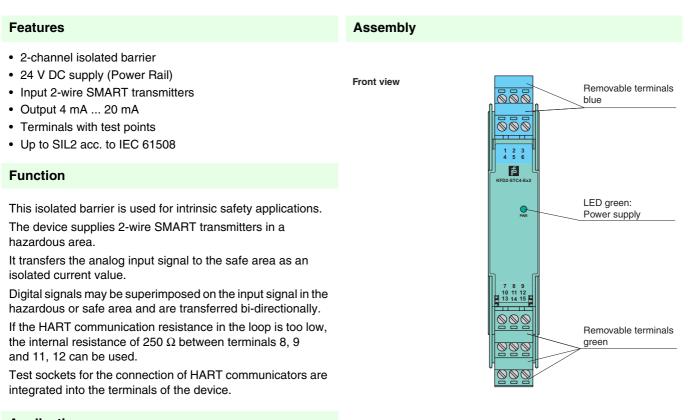
KFD2-STC4-Ex2



Application

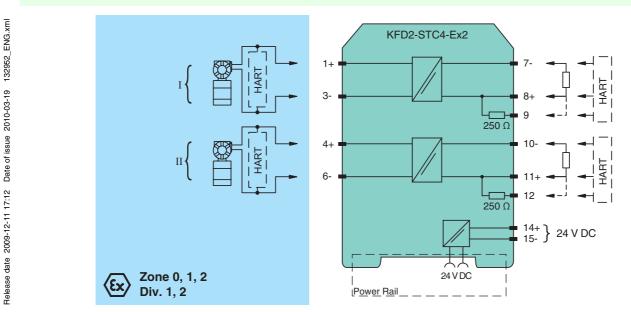
The device supports the following SMART protocols:

- HART
- BRAIN
- Foxboro





Connection



Constal appointions	
General specifications Signal type	Analog input
	Analog input
Supply	
Connection	Power Rail or terminals 14+, 15-
Rated voltage	20 35 V DC
Ripple	within the supply tolerance
Power loss	1.9 W
Power consumption	\leq 2.8 W
Input	
Connection	terminals 1+, 3-; 4+, 6-
Input signal	0/4 20 mA
Available voltage	\geq 16 V at 20 mA, terminals 1+, 3
Output	
Connection	terminals 7-, 8+; 10-, 11+
Load	0 550 Ω
Output signal	0/4 20 mA (overload > 25 mA)
Ripple	\leq 50 μ A _{rms}
Transfer characteristics	
Deviation	at 20 °C / 0/4 20 mA
	\leq 10 μ A incl. calibration, linearity, hysteresis, loads and fluctuations of supply voltage
Influence of ambient temperature	\sim 10 μ / mol. called alon, initiality, hydroloolo, loado and haddadiono of supply voltage 0.25 μ A/°C
Frequency range	hazardous area into the safe area: band width with 1 V_{pp} signal 0 7.5 kHz (-3 dB)
	safe area to hazardous area: band width with 1 V_{SS} -signal 0.3 7.5 kHz (-3 dB)
Rise time	20 μs
Start-up time	200 μs
De-energized delay	20 μs
Electrical isolation	
Output/power supply	functional insulation, rated insulation voltage 50 V AC
Output/Output	functional insulation, rated insulation voltage 50 V AC
Directive conformity	Turcuonar insulation, rated insulation voltage 30 V AC
•	
Electromagnetic compatibility	EN 01000 1-0000
Directive 2004/108/EC	EN 61326-1:2006
Conformity	
Electromagnetic compatibility	NE 21
Protection degree	IEC 60529
Ambient conditions	
Ambient temperature	-20 60 °C (-4 140 °F)
Mechanical specifications	
Protection degree	IP20
Mass	approx. 150 g
Dimensions	20 x 124 x 115 mm (0.8 x 4.9 x 4.5 in) , housing type B2
Data for application in connection	
with Ex-areas	
EC-Type Examination Certificate	BAS 99 ATEX 7025 , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection	$\langle Ex \rangle$ II (1)GD [EEx ia] IIC (-20 °C $\leq T_{amb} \leq 60$ °C) [circuit(s) in zone 0/1/2]
Input	EEx ia IIC
Voltage U _o	25.2 V
Current I _o	93 mA
Power P _o	0.586 W
Supply	
Maximum safe voltage U _m	250 V (Attention! The rated voltage can be lower.)
Type of protection [EEx ia]	,
Statement of conformity	TÜV 99 ATEX 1499 X, observe statement of conformity
Group, category, type of protection,	$\langle Ex \rangle$ II 3G Ex nA II T4 [device in zone 2]
temperature classification	
Electrical isolation	
· · · · · · · · · · · · · · · · · · ·	safe galvanic isolation acc. to EN 50020, voltage peak value 375 V
Input/Output	g
Input/Output	safe galvanic isolation acc. to EN 50020, voltage peak value 375 V
Input/power supply	safe galvanic isolation acc. to EN 50020, voltage peak value 375 V
Input/power supply Directive conformity	
Input/power supply Directive conformity Directive 94/9/EC	safe galvanic isolation acc. to EN 50020, voltage peak value 375 V EN 50014, EN 50020, EN 50021, EN 60079-0, EN 60079-15
Input/power supply Directive conformity Directive 94/9/EC International approvals	
Input/power supply Directive conformity Directive 94/9/EC International approvals UL approval	EN 50014, EN 50020, EN 50021, EN 60079-0, EN 60079-15
Input/power supply Directive conformity Directive 94/9/EC International approvals	

 Subject to reasonable modifications due to technical advances.
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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.pepperlfuchs.com.

Accessories

Power feed modules 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.

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