







Technical Data	
POWER SUPPLY	Power Rail or terminals 14+, 15-
Nominal voltage	20-35 VDC
Power consumption	1.9 W
INPUT (intrinsically safe)	Terminals 1+, 2-, 3 or 5-, 6+
Input signal	0/4-20 mA
Available voltage	≥16 V at 20 mA terminals 1+, 3
OUTPUT (not intrinsically safe)	Terminals 7-, 8+, 9
Output signal	0/4-20 mA; load 0-800 Ω
Ripple	≤ 50 μA _{rms}
TRANSFER CHARACTERISTICS	
Calibrated accuracy	≤ 10 μA incl. calibration, linearity, hysteresis, loads and fluctuations of supply voltage
Temperature drift	≤ 0.4 μA/°C
Frequency range	Hazardous area into the safe area: 0-7.5 kHz (-3 dB)
Band width at 0.5 V _{pp} Signal	
Frequency range	Safe area into the hazardous area: 0.3-7.5 kHz (-3 dB)
Band width at 0.5 V _{pp} Signal	
Rise time	20 μs
CERTIFICATES	See page 157 for entity parameters
	No. 116-0173
	 Zone 0, 1, 2 BAS 99 ATEX 7060,  II (1) G D [EEx ia] IIC
	 Zone 2 TÜV 99 ATEX 1499 X,  II 3 G EEx nA II T4
Exida	P+F 01/04-03D R001
MECHANICAL	
Housing	Type C see page 454
Dimensions	4.65" x 0.79" x 4.53" (118 x 20 x 115 mm)
Weight	7.1 oz. (≈ 200 g)
AMBIENT TEMPERATURE	-4°F to +140°F (-20°C to +60°C)

1-Channel SMART Transmitter Power Supply

- Model Number**
KFD2-STC4-Ex1
- 1-channel
 - 24 VDC supply/Power Rail compatible
 - SMART-compatible up to 7.5 kHz (-3 dB)
 - Suitable for Division 2/Zone 2 mounting
 - Galvanically isolated output
 - Current source output 0/4-20mA
 - SIL 2 according to IEC 61508; SIL 3 in a redundant structure

This SMART transmitter power supply provides 2- or 3-wire SMART transmitters with power in hazardous areas and transfers the analog values from the hazardous area to the safe area.

Digital signals may be superimposed on the analog values in the hazardous or safe area, which are transferred bidirectionally.

If the loop resistance is too low, an internal resistor of ≈ 274 Ω between terminals 8 and 9 is available, which may be used as the HART resistor. SMART transmitter power supplies are delivered standard with terminals KF-STP-BU and KF-STP-GN. Jacks are integrated in these terminals for the connection of the handheld units.

Voltage output versions are available upon request:

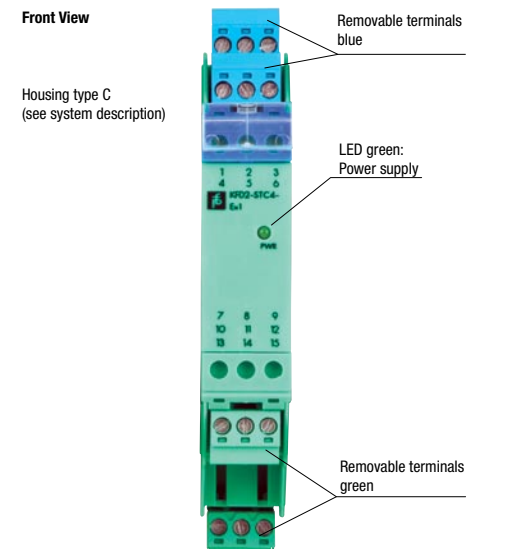
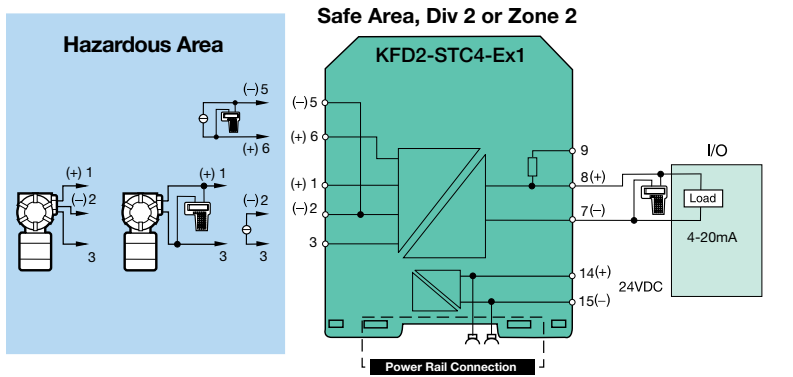
Model number	Output
KFD2-STV4-Ex1-1	0/1-5 V
KFD2-STV4-Ex1-2	0/2-10 V



[Engineer's Guide \(page 7\)](#)
[Accessories \(page 443\)](#)
[Power Supplies \(page 401\)](#)
[Surge Suppression \(page 413\)](#)
[Lastest Info. Avail. Online](#)

Connection Diagram

Class I; Div 1, 2
Zone 0, 1, 2



K-System Analog Input