

K-SYSTEM

Product Data Sheet

KFD2-STC4-EX1

SMART Transmitter Power Supply

SIGNAL CHANNELS	RATED SUPPLY RANGE	MAXIMUM POWER CONSUMPTION	POWER DISSIPATION
1	20 to 35 V DC	1.8 W	1.4 W

Pepperl+Fuchs KFD2-STC4-EX1 is a single-channel SMART transmitter power supply and isolated barrier in the K-System. It powers a compatible field transmitter and transfers its analog current signal to the control side while supporting documented bidirectional SMART communication.

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VERIFIED TECHNICAL DATA

Signal channels	1
Rated supply range	20 to 35 V DC
Maximum power consumption	1.8 W
Power dissipation	1.4 W
Transmitter voltage available	At least 16 V at 20 mA, terminals 1/3
Output signal	0/4 to 20 mA
Output load	0 to 800 ohm at 20 mA
Output overload limit	Greater than 25 mA
Output ripple	Maximum 50 microA RMS
Transfer deviation	At most 10 microA

ADDITIONAL PRODUCT DATA

Temperature influence	0.25 microA/K
Settling time	200 micros
Rise/fall time	20 micros
Ambient temperature	-20 to +60 deg C
Ingress protection	IP20

DOCUMENTED USE SETTINGS

Chemical Production and Process Manufacturing: Industrial Chemical Production.

Petroleum Production and Natural Gas Processing: Petroleum Refining and Processing.

Electricity Generation and Industrial Energy Production: Thermal Electric Power Generation.

SYSTEM COMPATIBILITY

Match the exact KFD2-STC4-EX1 variant and transmitter arrangement. Compare the intrinsically safe circuit parameters with the connected device and cable.

PRODUCT EVIDENCE

Pepperl+Fuchs exact KFD2-STC4-Ex1 product technical data; English instruction manual tdoct6793a