

20mA SMART Pepperl Fuchs Safety Barrier Transmitter Power Supply KFD2-STC5-Ex1.H

Our Product Introduction

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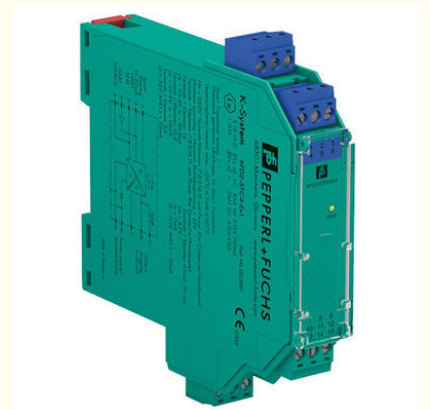
Basic Information

- Place of Origin: Germany
- Brand Name: PEPPERL FUCHS
- Model Number: KFD2-STC5-Ex1.H
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: carton
- Delivery Time: Negotiable
- Payment Terms: T/T
- Supply Ability: 100pcs per month



Product Specification

- Manufacturer: PEPPERL FUCHS
- Product No: KFD2-STC5-Ex1.H
- Load: 0 ... 800 Ω
- Output Signal: 4 ... 20 MA (overload > 25 MA)
- Ripple: Max. 50 μ A Rms
- Settling Time: 200 μ s
- Rise Time/fall Time: 100 μ s
- Highlight: **20mA Pepperl Fuchs Safety Barrier, SMART Transmitter Power Supply, KFD2-STC5-Ex1.H**



More Images



Product Description

PEPPERL FUCHS SMART Transmitter Power Supply KFD2-STC5-Ex1.H

General specifications

Signal type Analog input

Functional safety related parameters

Safety Integrity Level (SIL) SIL 2

Systematic capability (SC) SC 3

Supply

Connection Power Rail or terminals 14+, 15-

Rated voltage 18 ... 30 V DC

Ripple within the supply tolerance

Power dissipation ≤ 1 W at maximum load

Power consumption ≤ 1.6 W at maximum load

Input

Connection side field side

Connection terminals 1+, 2-, 3

Input signal 4 ... 20 mA

Open circuit voltage/short-circuit current terminals 1+, 3: 24 V / 25 mA

Input resistance max. 265 Ω terminals 2-, 3 ; max. 330 Ω terminals 1+, 3

Available voltage ≥ 17 V at 20 mA ; ≥ 21 V at 4 mA , terminals 1+, 3

Output

Connection side control side

Connection terminals 7+, 8-, 9- (sink)

terminals 7-, 8+, 9+ (source)

see additional information

Load 0 ... 800 Ω

Output signal 4 ... 20 mA (overload > 25 mA)

Ripple max. 50 μ A rms

External supply (loop) 2 ... 30 V DC

If the external voltage is > 19 V, a load $\geq ((V - 19) / 0.02) \Omega$ is required. V represents the value of the external voltage.

The internal 250 Ω resistor at terminal 9 can be used as a load.

Transfer characteristics

Deviation at 20 °C (68 °F), 4 ... 20 mA

$\leq 10 \mu$ A incl. calibration, linearity, hysteresis, loads and fluctuations of supply voltage

Influence of ambient temperature $\leq 0.25 \mu$ A/K

Frequency range field side into the control side: bandwidth with 0.5 Vpp signal 0 ... 7.5 kHz (-3 dB)

control side into the field side: bandwidth with 0.5 Vpp signal 0.3 ... 7.5 kHz (-3 dB)

Settling time 200 μ s

Rise time/fall time 100 μ s



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