Connection





- 1-channel
- Input EEx ia IIC; U₀ = 25.2 V
- 24 V DC supply voltage
- SMART capable up to 40 kHz (-1dB)
- EMC acc. to NAMUR NE 21

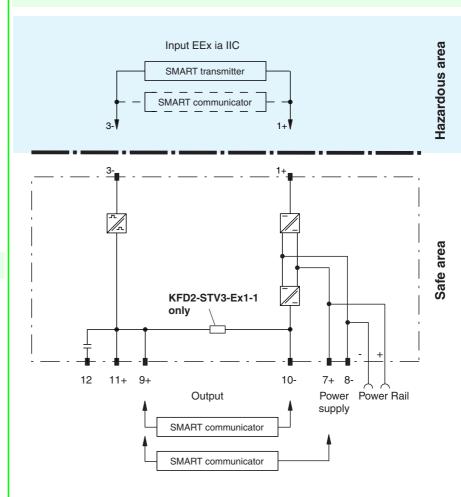
Output 4 mA ... 20 mA KFD2-STC3-Ex1

Function

SMART transmitter power supplies provide SMART transmitters with power in hazardous areas and transfer the 4 mA ... 20 mA analogue values to output terminals 9+ and 10-. Digital signals may be superimposed on the analogue values in the hazardous or safe area, which may be transferred bidirectionally. Handheld terminals should be connected as shown in the circuit block diagram. A series circuit, i. e. for the Bailey STT01, is also possible. 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.

Application

- The supply of power to SMART transmitters and the transfer of the measurement current to the output
- suited for the following SMART systems: ABB, Bailey, Chessel, Eckhardt-Foxboro,
- Endress+Hauser, Fuji, Emerson,
- Smar, Siemens, VEGA, Yokogawa

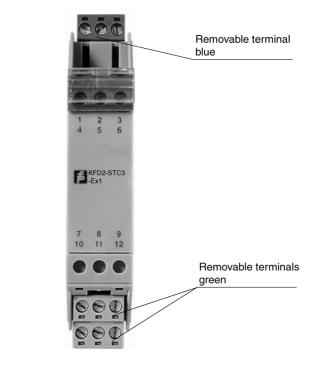


Composition

Housing type A4

(see system description)

Front View



Subject to reasonable modifications due to technical advances

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Technical data

NE 21 IEC 60529			
-20 60 °C (253 333 K)			
BAS 01 ATEX 7369, for additional certificates see www.pepperl-fuchs.com			
BAS 01 A LEX 7369 , for additional certificates see www.pepperi-tucns.com $\langle Ex \rangle$ II (1) G D [EEx ia] IIC (T _{amb} = -20 °C to +60 °C) [circuit(s) in zone 0/1/2]			
safe electrical isolation acc. to EN 50020, voltage peak value 375 V			
EN 50014, EN 50020			
4Z6A5.AX No. 116-0129			
yes			
terminals 1, 3			

Subject to reasonable modifications due to technical advances.

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Technical data

Explosion group	A&B	C&E	D, F&G	
Max. external capacitance Ca	0.14 μF	0.43 μF	1.14 μF	
Max. external inductance La	4.18 mH	16.83 mH	34.21 mH	
Safety parameter	arameter			
UL control drawing	E 106378			
CSA control drawing	LR 65756-13			
Control drawing	No. 116-0132			
Connection	terminals 1, 3			
Input I				
Safety parameter	28 V / 300 Ω			
Voltage V _{OC}	28 V			
Current I _{SC}	93 mA			
Explosion group	A&B	C&E	D, F&G	
Max. external capacitance Ca	0.14 μF	0.42 μF	1.14 μF	
Max. external inductance La	3.1 mH	16.7 mH	34 mH	

Supplementary information

EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed. For information see www.pepperl-fuchs.com.

Notes

- Terminal 12 is placed across an internally applied capacitance. Active input cards such as Foxboro FMB 18, can be operated with this.
- For test purposes or for commissioning the input of the transmitter power supply can be short-circuited for a short period.
- The permissible duration of the short-circuit equals a maximum of 6 hours.

Accessories

Power Rail PR-03 Power Rail UPR-03 Power feed module KFD2-EB2...

Using Power Rail PR-03 or UPR-03 the devices are supplied with 24 V DC by means of the power feed modules. If no Power Rails are used, power supply of the individual devices is possible directly via their device terminals.

Each power feed module is used for fusing and monitoring groups with up to 100 individual devices. The Power Rail PR-03 is an inset component for the DIN rail. The Power Rail UPR-03 is a complete unit consisting of the electrical inset and an aluminium profile rail 35 mm x 15 mm x 2000 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!

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