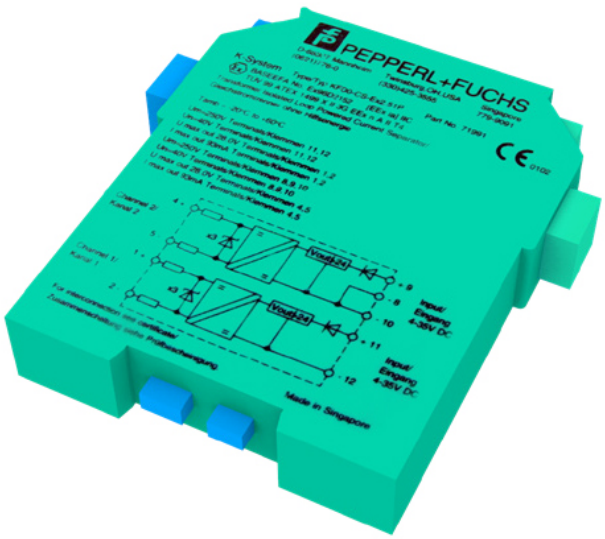
Isolated Barrier
KFDO-CS-EX2.51P



Features

- 2-channel isolated barrier
- 24 V DC supply (loop powered)
- Current input/output 0 mA … 40 mA
- I/P or transmitter power supply
- Accuracy 1%
- Reverse polarity protection
- Up to SIL2 acc. to IEC 61508

Description

This isolated barrier is used for intrinsic safety applications. It transfers DC signals from fire alarms, smoke alarms, and temperature sensors in hazardous areas. It can also be used to control I/P converters, power solenoids, LEDs, and audible alarms.

Reverse polarity protection prevents damage to the isolator caused by faulty wiring.

Since this isolator is loop powered, use the technical data to verify that proper voltage is available to the field devices.

Specification	
Ordering Code	KFDO-CS-EX2.51P
Maximum short-circuit current (Intrinsically Safe)	At U_{in} > 24 V: ≤ 65 mA
Number of channels	2
Current Range (Not Intrinsically Safe)	0 to 40 mA, nominal
Rise Time	≤ 5 ms at bounce from 4 ... 20 mA and Uin < 24 V
Maximum Output Voltage in hazardous area	for 4 V < Uin < 24 V: ≥ Uin - (0.37 x current in mA) - 1.0 for Uin > 24 V: ≥ 21 V - (0.36 x current in mA)
Transfer Accuracy at 20°C	≤ 200 µA
Loop Supply Voltage	4 to 35 V dc
Operating Temperature Range	-20 °C to + 60 °C (continuous working)
Storage Temperature Range	-40 °C to + 80 °C
Maximum Humidity	95%RH - Non Condensing (at 40 °C)
Weight (g) / Dimensions (mm)	100 / H115 x W107 x D20
Mounting Methods	DX070, SMB-2 or SMB-3 Enclosures