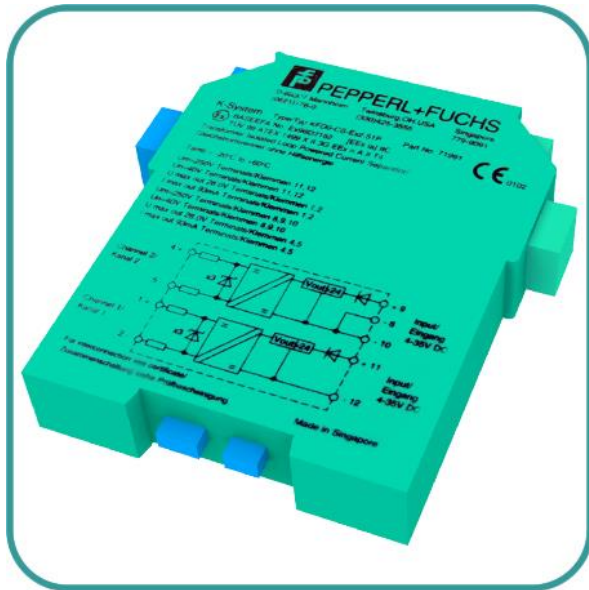


# Isolated Barrier

## 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 $U_{in} > 24 \text{ V}$ : $\leq 65 \text{ mA}$
Number of channels	2
Current Range (Not Intrinsically Safe)	0 to 40 mA, nominal
Rise Time	$\leq 5 \text{ ms}$ at bounce from 4 ... 20 mA and $U_{in} < 24 \text{ V}$
Maximum Output Voltage in hazardous area	for $4 \text{ V} < U_{in} < 24 \text{ V}$ : $\geq U_{in} - (0.37 \times \text{current in mA}) - 1.0$ for $U_{in} > 24 \text{ V}$ : $\geq 21 \text{ V} - (0.36 \times \text{current in mA})$
Transfer Accuracy at 20°C	$\leq 200 \mu\text{A}$
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
<b>FURTHER INFORMATION: <a href="http://www.pepperl-fuchs.co.uk">www.pepperl-fuchs.co.uk</a></b>	