# GBX2000

## I.S. Barrière isolée pour les systèmes conventionnels

### General

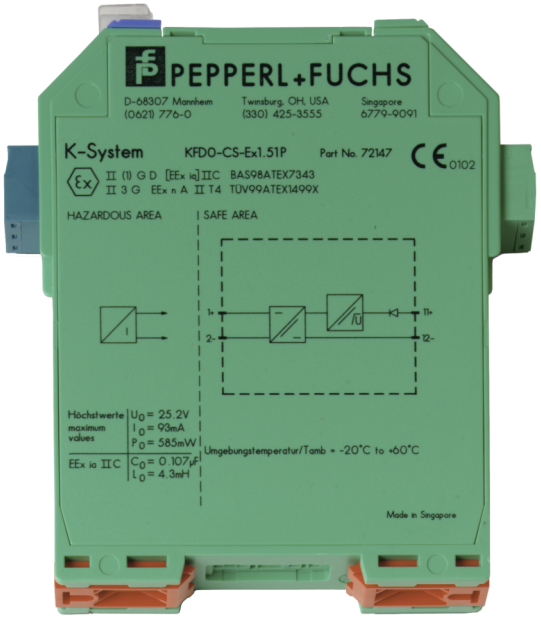
The GBX2000 is a galvanic isolation barrier selected specifically for use between an Intrinsically safe conventional zone and a zone-monitor.

### Application

Every GBX2000 (4 terminals) functions like a ""DC current isolator"" with reverse polarity protection. The input and output are galvanically isolated from each other.
It is designed for the connection of fire detectors, smoke detectors, temperature sensors, etc. The detector's increased current range and the higher accuracy allow for differentiation between normal operation, fire alarm, lead breakage and short circuit currents in the safe area. In many cases they may also be used for controlling I/P converters. A separate power supply with auxiliary power is not required. Due to the input voltage limiting of 24 V, the maximum voltage output is 21 V.

### Application

• The isolation of power loops for the control of positioner, I/P converters etc. A current source is connected to the safe area terminals.
• The isolation of a current signal from fire detectors or similar sensors. In this case, a voltage source can be connected to the safe area terminals. A specific measurement current across a passive sensor can be measured in the safe area with a series resistor (min. 50 ¿). When a voltage supply is used, the measuring resistor can also provide current limitations.




### Détails

- Approved with the IU2055 zone monitor unit
- Output EEx ia IIC
- Device installation permissible in zone 2
- Polarity reversal protected
- Accuracy 1%
- EMC acc. to NAMUR NE 21
- Up to SIL2 acc. to IEC 61508

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## Spécifications techniques

### Physical

| | |
|---|---|
| Mounting type | DIN-Hutschiene |

### Environmental

| | |
|---|---|
| Environment | Drinnen, IS |

### Regulatory

| | |
|---|---|
| Certification | CENELEC/ATEX |

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