

GBX370

Intrinsically safe galvanic isolator for hazardous area notification (P&F KFD0-CS-Ex1.54)

General

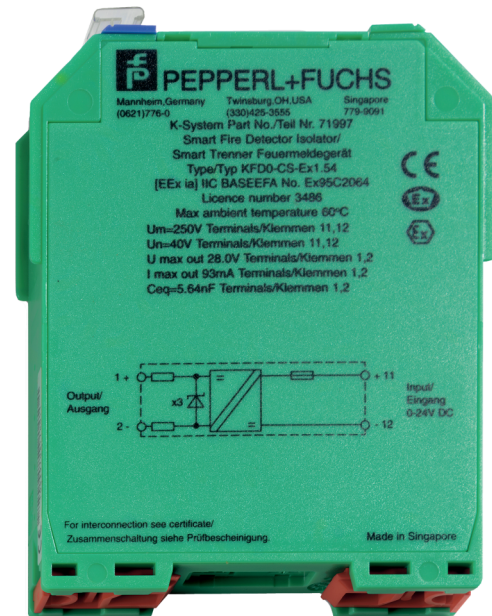
The GBX370 is an isolated barrier used for intrinsic safety applications. It provides control and signal transfer to drive notification devices located in hazardous areas.

Application

The GBX370 functions like a DC- to-DC converter with current limiting set at 45 mA. The input and output are galvanically isolated from each other.

The fall time of the digital signal must be less than 50 μ s, the current in the hazardous area must be bigger than 1 mA.

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



Details

- 1-channel isolated barrier
- 24 VDC supply (loop powered)
- SMART fire alarm input
- Current input 1 to 20 mA
- Up to SIL3 acc. to IEC 61508
- 45 mA Output
- Output EEx ia IIC

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Technical specifications

General

Compatibility	Conventional intrinsically safe notification devices
Addressing method	No addressing required
System support	Supervised notification outputs

Electrical

Power supply type	Loop powered
Power consumption	< 0.2 W for $U_{in} = 24\text{ V}$, $I_{out} = 20\text{ mA}$
Operating voltage	0 to 24 VDC
Current consumption	< 35 mA
Number of connection terminals	6

Isolation

Loop current	$\leq 35\text{ mA}$
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Physical

Physical dimensions	20 x 107 x 115 mm (0.8 x 4.2 x 4.5") (W x H x D)
Net weight	$\pm 100\text{ g}$
Colour	Green
Mounting type	DIN-rail
Mounting position	Wall
Texture	Textured

Environmental

Vandal proof	No
Operating temperature	-20 to 60°C (-4 to 140°F)
Environment	Exd, Indoor, IS
Hazardous environment rating	II (1)G [Ex ia Ga] IIC, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I
IP rating	IP20

Regulatory

Compliance	CE
Certification	CENELEC/ATEX, FM, UL/ULC

Input

Signal type	Analogue input
Safety Integrity Level (SIL)	SIL 3

Output

Voltage (U_o)	28 V
Current (I_o)	93 mA
Power (P_o)	653 mW



As a company of innovation, Carrier Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit firesecurityproducts.com online or contact your sales representative.

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