Product data sheet

United Technologies
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GBX370

I.S. Galvanic Isolator For AS372/FA370 Series

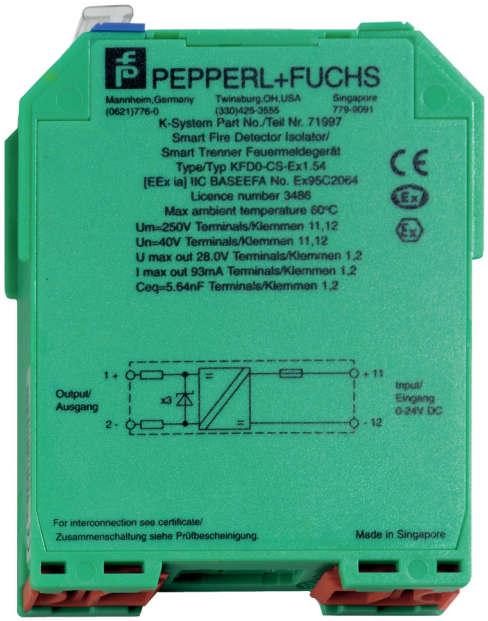
General

The GBX370 is a galvanic barrier specifically designed to drive sounders and beacons, which are located in intrinsic safe areas. It is recommended to be used in conjunction with the AS372, FA370 or FA370C.

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.

It is designed for the connection of audible alarms and visual indicators, which needs to be located in an Intrinsically safe area. This makes it ideal for use with the AS372, when a sounder needs to be installed in an Intrinsically safe area, or with the FA370/FA370C when a beacon is required.



Details

- Output EEx ia IIC
- EMC acc. to NAMUR NE 21
- Up to SIL3 acc. to IEC 61508
- 45 mA Output

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Technical specifications

Electrical

Operating voltage	5 to 35 VDC

Physical

Physical dimensions	20 x 107 x 115 mm
Net weight	± 100 g

Environmental

Environment	IS, Outdoor, Indoor
IP rating	IP20

Standards & regulation

Certification	CENELEC/ATEX

Input

Voltage	5 to 35 VDC
Current	7 mA at 18.5 VDC
	85 mA at 35 VDC
Power loss	1.3 W

Output

Internal resistor	<= 294 ohm
Open loop voltage	>= 22.8V
Limit	Ie: >=45.3 mA, Ue : 9.1V
Rated current	45 mA

Ambient temperature

	-20°C to +60°C

Mechanical specifications

Protection degree	IP20
Weight	± 100 g
Dimensions	20 x 107 x 115 mm

Group, category, type of protection

	II (1) G D [EEx ia] IIC (-20°C <= Tamb <= 60°C)

Type of protection [EEx ia]

Explosion group	IIA	IIB	IIC
External capacitance	2.9 µF	0.82 µF	0.107 µF
External inductance	36.02 mH	17.72 mH	4.3 mH

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