



Product Data Sheet

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.



Standard Features

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

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Specifications

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	$\leq 294 \text{ ohm}$
Open loop voltage	$\geq 22.8 \text{ V}$
Limit	$I_e: \geq 45.3 \text{ mA}$, $U_e: 9.1 \text{ V}$
Rated current	45 mA

Ambient temperature -20°C to +60°C

Mechanical specifications

Protection degree	IP20
Weight	$\pm 100 \text{ g}$
Dimensions	20 x 107 x 115 mm

Group, category, type of protection II (1) G D [EEx ia] IIC (-20°C \leq Tamb \leq 60°C)

Type of protection [EEx ia]

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

Ordering Information

Part No.	Description
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