

Instructions

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Flameproof Enclosure HPH Ex d ...

IECEX TUN 09.0013X

1 Range of application

The pressure resistant housing HPH Ex d ... has been developed preferably for the visualization of a current signal. The signal current of 4 mA ... 20 mA is displayed as 0 % ... 100 % value. It can be used in hazardous areas in which required equipment protection level (EPL) Gb (zone 1). The digital display is powered by the signal current and requires no separate power supply.

2 Description

The flameproof enclosure HPH Ex d ... is produced in two versions.

HPH Ex d D flameproof enclosure with digital display

HPH Ex d flameproof enclosure without digital display

3 Installation requirements

Generally, all local safety and accident prevention regulations must be observed. Particular attention must be paid to the installation requirements of Ex equipment.

Warning: Do not open the enclosure when energized.

3.1 Installation

The approved cable glands or conduit entries for pipes and possibly a safety barrier must be installed in the housing according to the manufacturer. The cover must be tightly screwed to the housing after wiring and fixed with the locking screw M4.

In order to maintain flameproof enclosure the cable entries and the entries for pipes must be approved in accordance to IEC 60079-1. For this, two threaded holes are provided. These threads can have different sizes (see 3.2).

It has to be paid attention that the threads are in perfect condition. Repair of the housing must be carried out by FAFNIR only. The device is maintenance-free.

A threaded hole, preferably M24 × 1.5 can be used to mount an approved flameproof enclosure safety barrier. The safety barrier is then used to power an intrinsically safe (Ex i) sensor.

3.2 Electrical connection

For cable entries of pipes the following threads according to IEC 60079-1 are provided:

M16 × 1.5; M20 × 1.5; M24 × 1.5; M25 × 1.5; G 3/8; 1/2" NPT; 3/4" NPT

3.3 Technical data

Ambient temperature -40 °C ... +85 °C

Electrical input data:

U_i with digital display min. 16 V to max. 29 V

U_i without digital display min. 12 V to max. 26 V

I_i 4 mA ... 20 mA (3,6 mA ... 21,5 mA; fault mode)

Certificate N°: IECEX TUN 09.0013X

Marking: Ex d IIC T4 Gb