## **Features**

- 1-channel isolated barrier
- 24 V DC supply (bus powered)
- Output 40 mA at 11.2 V DC, 52 mA current limit
- · Contact or logic control input
- Entity parameter I<sub>o</sub>/I<sub>sc</sub> = 93 mA
- Line fault detection (LFD)

## **Function**

This isolated barrier is used for intrinsic safety applications. It is used to supply power to solenoid valves, audible alarms, or LED indicators in the hazardous area.

It is controlled with a switch contact, transistor, or logic-level signal.

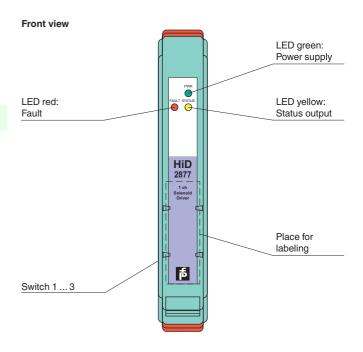
At full load, 11.2 V at 40 mA (with 52 mA current limit) is available for the hazardous area application.

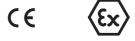
This barrier has a low  $I_0/I_{sc} = 93$  mA entity parameter.

Line fault detection of the field circuit is indicated by a red LED and an output on the fault bus. The fault conditions are monitored via a Fault Indication Board.

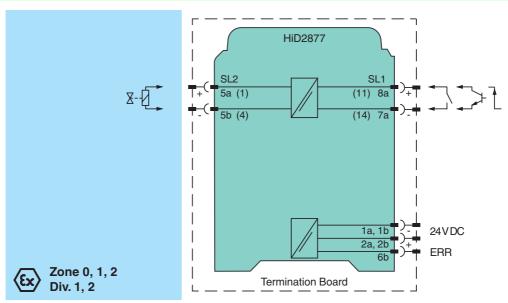
This module mounts on a HiD Termination Board.

# **Assembly**





#### Connection



**General specifications** 

Signal type Supply Connection

Rated voltage

Input current

Control input

Output Connection

Load

Operating mode

Output voltage

Response time Error message output

Switching frequency

Power loss Input Connection Digital Output

SL1: 1a(-), 1b(-); 2a(+), 2b(+)

1 W at 24 V, 300  $\Omega$  load

SL1: 8a(+), 7a(-)

SL2: 5a(+), 5b(-)

 $0.1 \dots 5 \ k\Omega$ 

max. 250 Hz

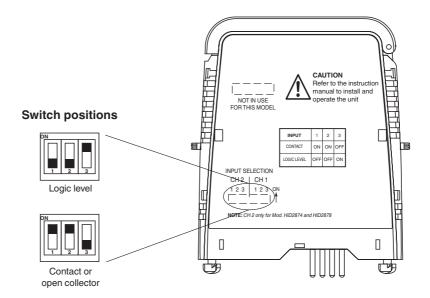
20.4 ... 30 V via Termination Board 60 mA at 24 V, 300  $\Omega$  load

40 mA at 11.2 V DC, 52 mA current limit

turn-on time 1 ms, turn-off time 2 ms, at 300  $\Omega$  load

external switch (dry contact or open collector) non isolated or logic signal input fully floating

output on with contact close or transistor on or logic level > 4 V output off with contact open or transistor off or logic level < 1.5 V



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Channel 2 only for HiD2874 and HiD2878.

Configure the device in the following way:

- Push the red Quick Lok Bars on each side of the device in the upper position.
- Remove the device from Termination Board.
- Set the DIP switches according to the figure.



The pins for this device are trimmed to polarize it according to its safety parameter. Do not change! For further information see system description.

## **Output characteristic**

