



## Adapter Set for HiD Termination Board HiD-ADP-HiC-DO

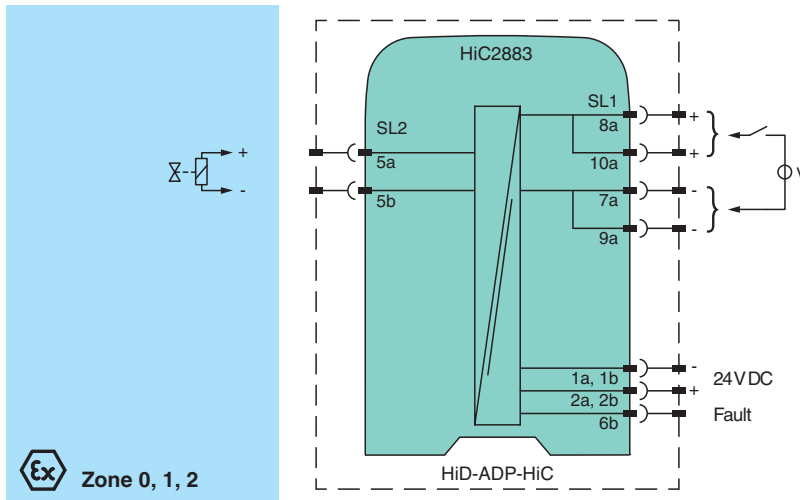
- Set consisting of isolated barrier HiC2883 and adapter HiD-ADP-HiC
- 1-channel isolated barrier
- 24 V DC supply (bus or loop powered)
- Output 45 mA at 12 V DC
- Line fault transparency (LFT)
- Test pulse immunity
- For HiD Termination Board mounting
- Up to SIL 3 acc. to IEC/EN 61508



### Function

The device enables the usage of HiC devices on HiD termination boards.  
 The device consists of a isolated barrier and a HiD-ADP-HiC adapter.  
 The device supplies power to solenoids, LEDs and audible alarms located in the explosion-hazardous area.  
 The device is controlled with a loop powered signal or a bus powered logic signal.  
 The device is immune to the test pulses of various control systems.  
 The device simulates a minimum load at the input. The minimum load can be activated and de-activated.  
 The line fault transparency function can display a line fault in the field by a change in impedance at the switching input of the solenoid driver.  
 The device is mounted on the HiD termination board.

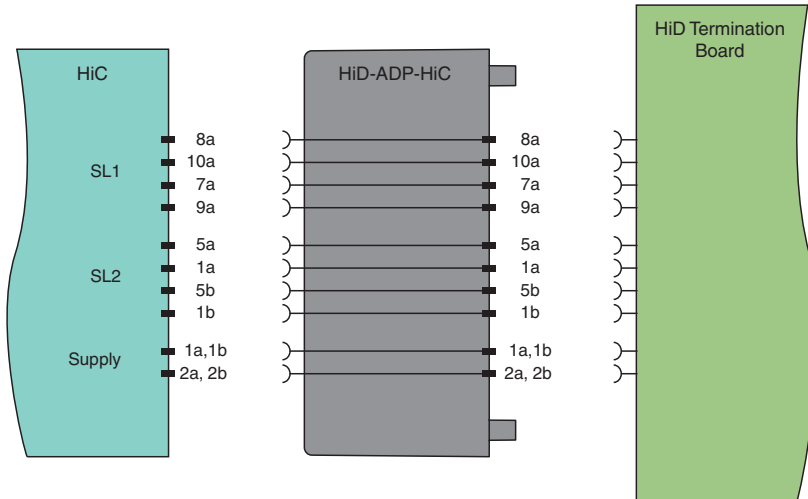
### Connection



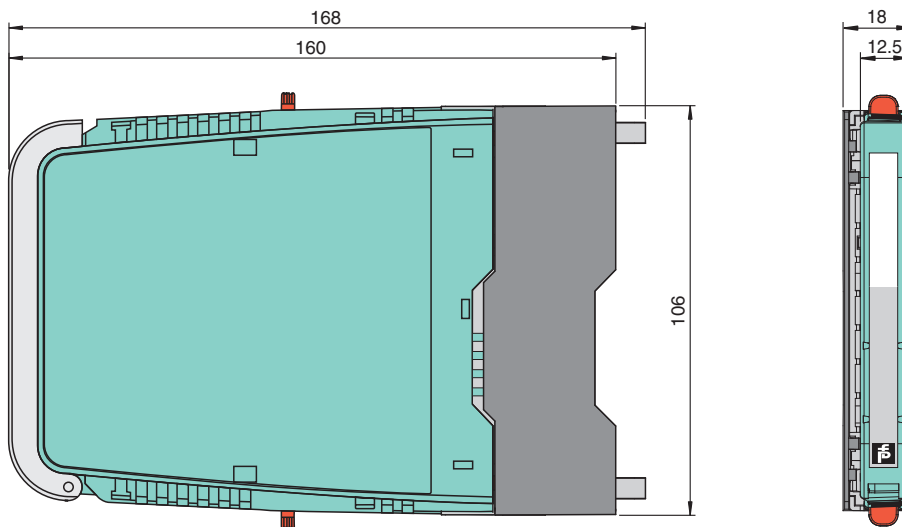
**Ex** Zone 0, 1, 2

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Connection



Dimensions



Technical Data

<b>General specifications</b>		
Signal type		Digital Output
<b>Functional safety related parameters</b>		
Safety Integrity Level (SIL)		SIL 3
<b>Supply</b>		
Rated voltage	$U_r$	19 ... 30 V bus powered via Termination Board 19 ... 30 V loop powered via input , reverse polarity protected
Input current		75 mA at 24 V, 270 $\Omega$ load
Power dissipation		1.3 W at 24 V, 270 $\Omega$ load
<b>Input</b>		
Connection side		control side
Signal level		loop powered 1-signal: 19 ... 30 V DC 0-signal: 0 ... 5 V DC bus powered 1-signal: 15 ... 30 V DC (current limited to 5 mA) 0-signal: 0 ... 5 V DC
Rated current	$I_r$	0-signal: typ. 1.6 mA at 1.5 V DC; typ. 8 mA at 3 V DC (maximum leakage current DO card) 1-signal: $\geq$ 36 mA (minimum load current DO card)

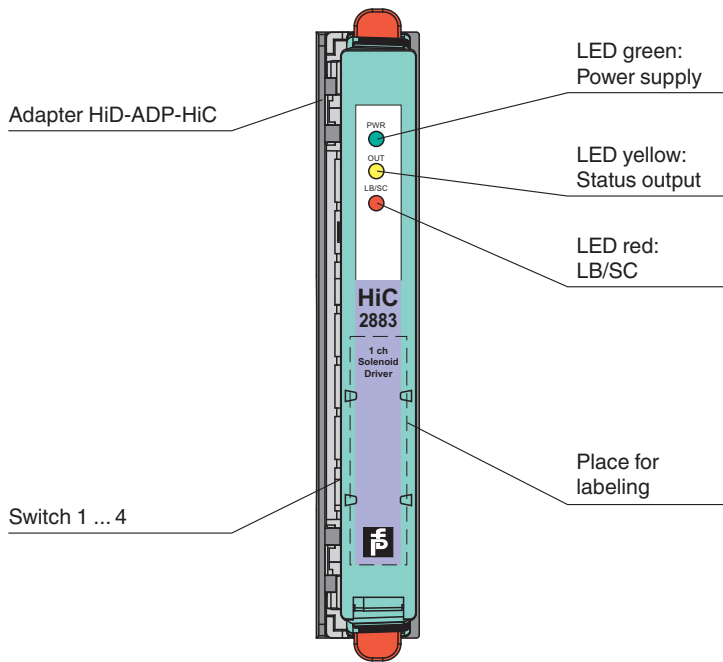
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## Technical Data

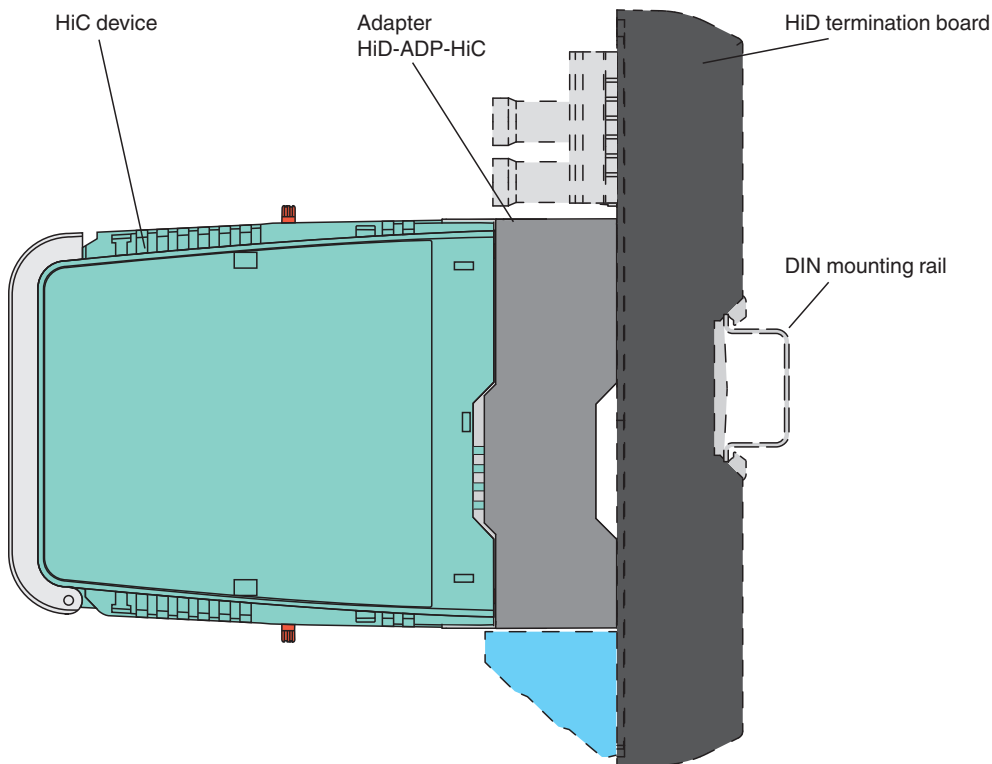
Inrush current	< 200 mA , 10 ms loop powered
<b>Output</b>	
Connection side	field side
<b>Fault indication output</b>	
Output type	open collector transistor (internal fault bus)
<b>Indicators/settings</b>	
Display elements	LEDs
Control elements	DIP switch
Configuration	via DIP switches
Labeling	space for labeling at the front
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	see datasheet of isolated barrier
<b>Conformity</b>	
Electromagnetic compatibility	see datasheet of isolated barrier
Degree of protection	IEC 60529:2001
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
<b>Mechanical specifications</b>	
Degree of protection	IP20
Mass	approx. 160 g
Dimensions	18 x 106 x 168 mm (0.7 x 4.2 x 6.6 inch) (W x H x D)
Mounting	on termination board
<b>Data for application in connection with hazardous areas</b>	
EU-type examination certificate	see datasheet of isolated barrier
<b>International approvals</b>	
FM approval	see datasheet of isolated barrier
UL approval	see datasheet of isolated barrier
IECEx approval	
IECEx certificate	see datasheet of isolated barrier
<b>General information</b>	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

**Assembly**

Front view



**Mounting**



**Product Versions**

You can replace the following devices with the HiD-ADP-HiC-DO adapter:

Signal type	HiD-ADP-HiC-DO with HiC module	Function	Replacement for HiD module
Digital output	HiC2883	Solenoid driver	HiD2872

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