



# Adapter Set for HiD Termination Board

## HiD-ADP-HiC-AIO

- Set consisting of isolated barrier HiC2422 and adapter HiD-ADP-HiC
- 2-channel isolated barrier
- 24 V DC supply (bus powered)
- Analog input (AI), Analog output (AO)
- Operates as transmitter power supply or current driver
- For HiD Termination Board mounting
- Up to SIL 2 (SC 3) acc. to IEC/EN 61508



**SIL 2**



### 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.

This isolated barrier is used for intrinsic safety applications.

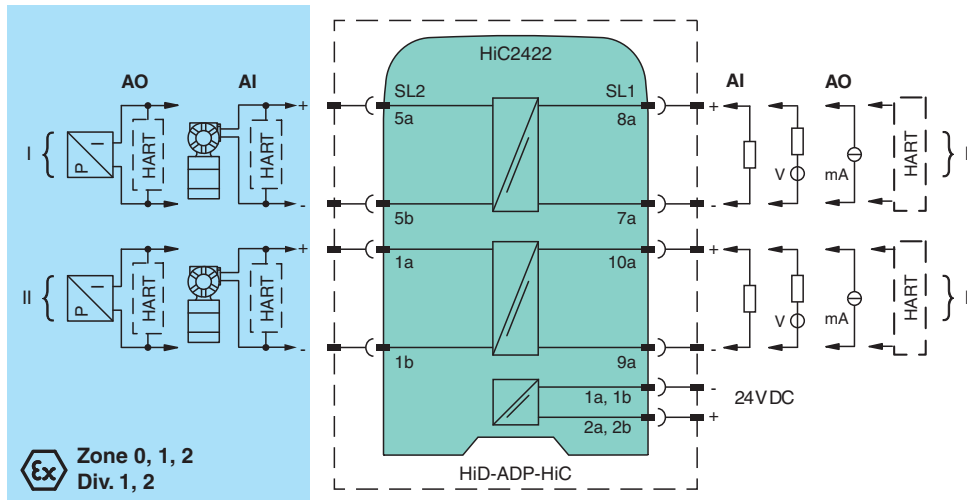
Each device channel works as a transmitter power supply or a current driver.

The device transfers data by using a current signal.

The device supports a bi-directional communication for SMART devices that use current modulation to transmit data and voltage modulation to receive data.

The device is mounted on the HiD termination board.

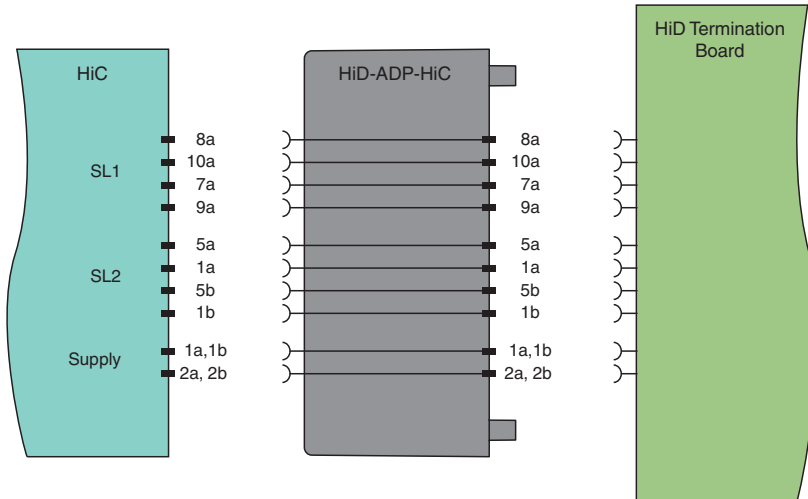
### Connection



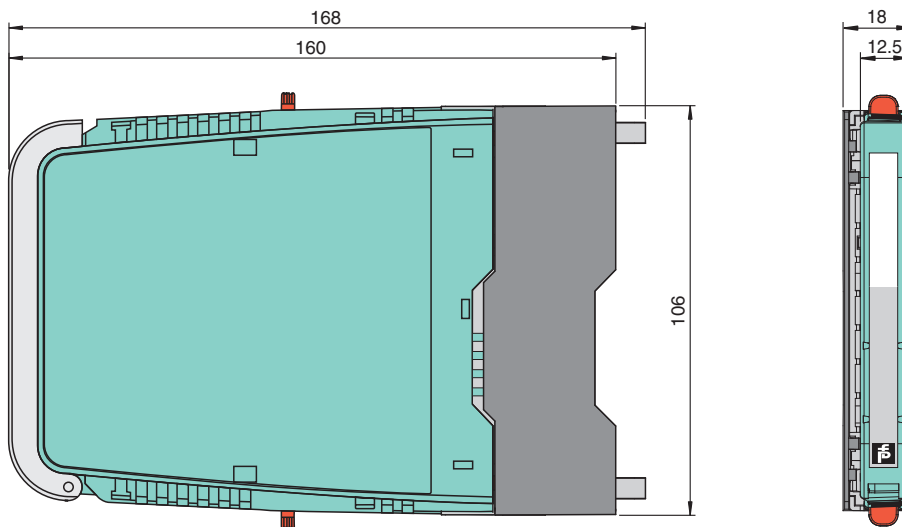
**Ex** Zone 0, 1, 2  
Div. 1, 2

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Connection



Dimensions



Technical Data

<b>General specifications</b>			
Signal type	Analog output		
<b>Functional safety related parameters</b>			
Safety Integrity Level (SIL)	SIL 2		
Systematic capability (SC)	SC 3		
<b>Supply</b>			
Rated voltage	$U_r$	19 ... 30 V DC via Termination Board	
Rated current	$I_r$	max. 88 mA at 24 V	
Power dissipation	max. 1.4 W		
Power consumption	max. 2.1 W		
<b>Analog input</b>			
Number of channels	2		
Suitable field devices	2-wire SMART transmitters		
Signal	0/4 ... 20 mA , limited to approx. 30 mA		
<b>Analog output</b>			
Number of channels	2		
Suitable field devices	SMART I/P converters (positioner), on-site-displays		

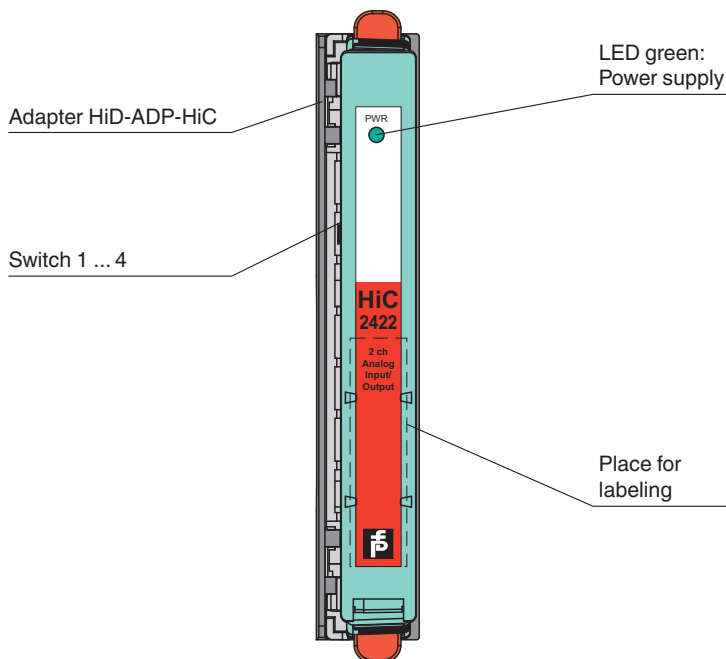
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**Technical Data**

Signal	0/4 ... 20 mA , limited to approx. 30 mA	
<b>Indicators/settings</b>		
Display elements	LEDs	
Factory setting	analog input with source output	
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	
<b>Ambient conditions</b>		
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)	
<b>Mechanical specifications</b>		
Degree of protection	IP20	
Mass	approx. 200 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>		
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> .	

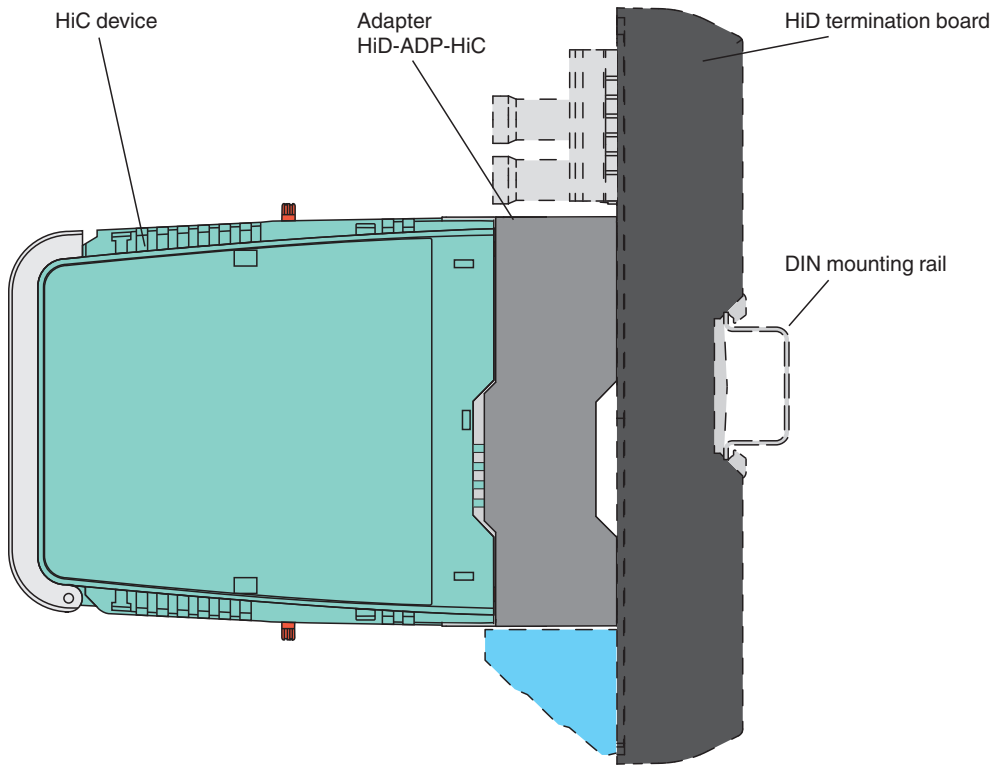
**Assembly**

Front view



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**Mounting**



**Product Versions**

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

Signal type	HiD-ADP-HiC-AIO with HiC module	Function	Replacement for HiD module	Main differences
Analog input Analog output	HiC2422	Transmitter power supply Current driver	HiD2022	IS parameters No fault indication board connection No active source
			HiD2030	
			HiD2038	IS parameters No fault indication board connection No short breakage detection

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