



Adapter Set HiD Device for Contrans I socket

HiD-CI-DO1-SET

- Set consisting of isolated barrier HiD2872 and adapter HiD-ADP-CI
- 2-channel isolated barrier
- Only 1 channel usable
- 24 V DC supply (loop powered)
- Output 40 mA at 12 V DC, 55 mA current limit
- Entity parameter $I_o/I_{sc} = 110$ mA
- Mounting to a V17111-110 Contrans I socket



Function

The device consists of a isolated barrier and the HiD-ADP-CI adapter.

This isolated barrier is used for intrinsic safety applications.

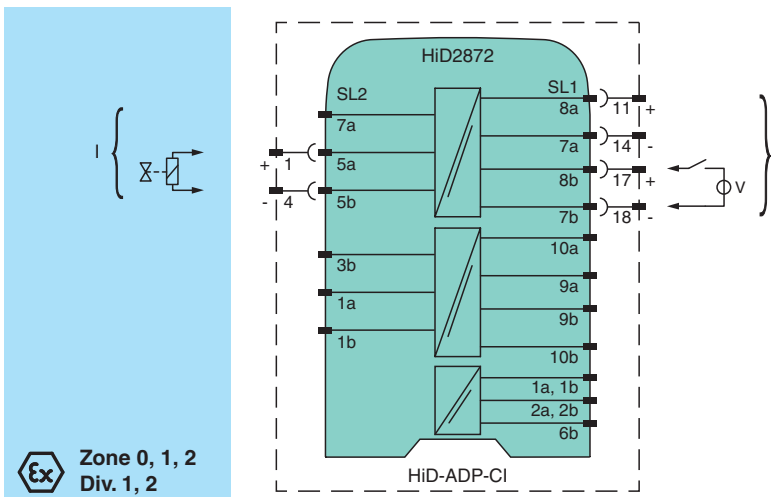
The device supplies power to solenoids in a hazardous area.

The device is controlled with a loop powered control signal.

At full load, 12 V at 40 mA (with 55 mA current limit) is available for the hazardous area application.

The device is mounted on the V17111-110 Contrans I socket.

Connection



Release date: 2022-01-05 Date of issue: 2022-01-05 Filename: 70125210_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

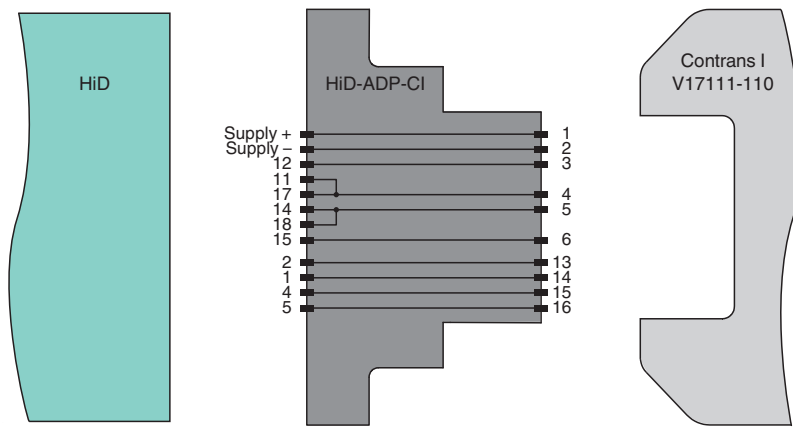
Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0002
pa-info@us.pepperl-fuchs.com

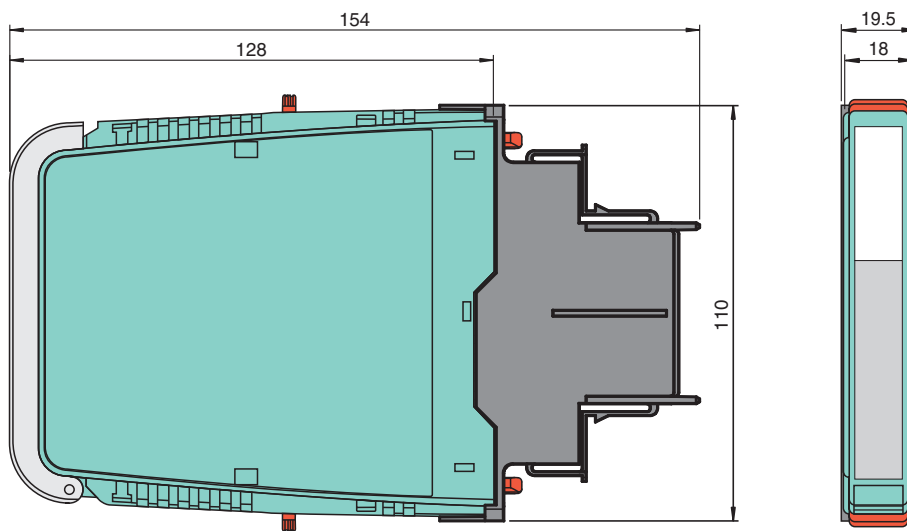
Germany: +49 621 776 2222
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
pa-info@sg.pepperl-fuchs.com

PF PEPPERL+FUCHS



Dimensions



Technical Data

General specifications

Signal type Digital Output

Supply

Nominal voltage 24 V DC , in consideration of rated voltage of used isolated barrier

Voltage drop 0.9 V with integrated decoupling diode

Reverse polarity protection yes

Electrical specifications

Connection see datasheet of isolated barrier

Input

Connection side control side

Output

Connection side field side

Indicators/settings

Display elements LEDs

Control elements DIP switch

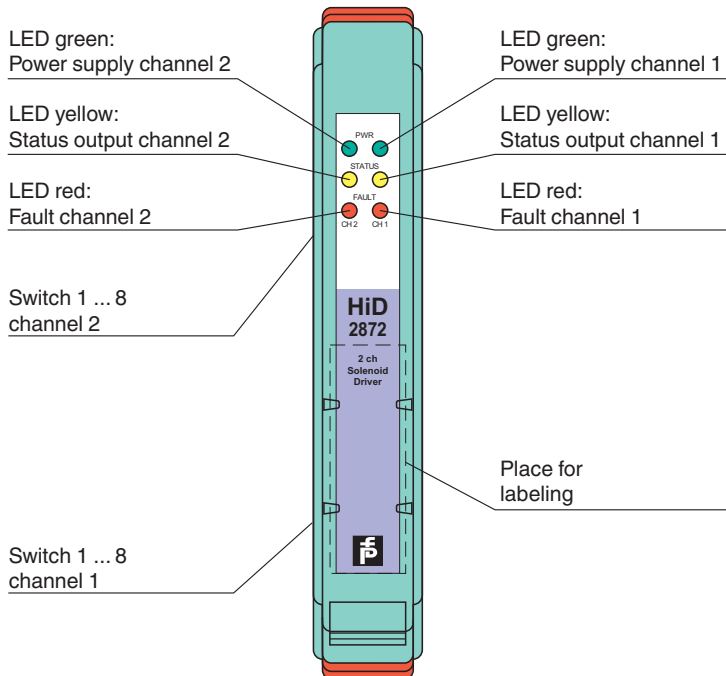
Release date: 2022-01-05 Date of issue: 2022-01-05 Filename: 70125210_eng.pdf

Technical Data

Labeling	space for labeling at the front
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	see datasheet of isolated barrier
Conformity	
Electromagnetic compatibility	see datasheet of isolated barrier
Degree of protection	IEC 60529:2001
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications	
Degree of protection	IP20
Mass	approx. 160 g
Dimensions	19.5 x 110 x 154 mm (0.77 x 4.3 x 6.1 inch) (W x H x D)
Mounting	on Contrans I socket
Data for application in connection with hazardous areas	
EU-type examination certificate	see datasheet of isolated barrier
International approvals	
IECEx approval	
IECEx certificate	see datasheet of isolated barrier
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .

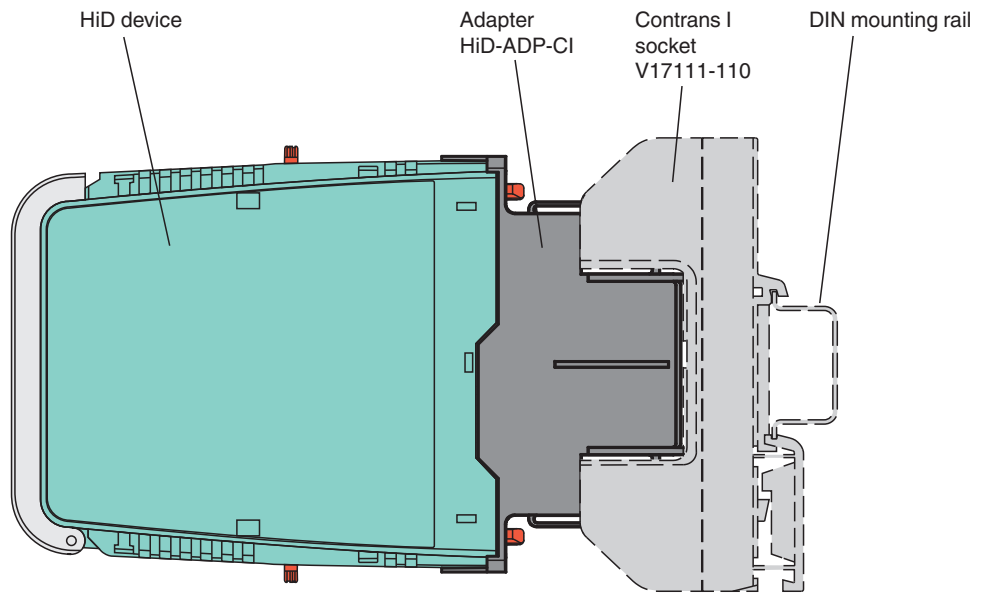
Assembly

Front view



Release date: 2022-01-05 Date of issue: 2022-01-05 Filename: 70125210_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".



Release date: 2022-01-05 Date of issue: 2022-01-05 Filename: 70125210_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0002
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
pa-info@sg.pepperl-fuchs.com

 **PEPPERL+FUCHS**

Connection Assignment

Connection assignment of the adapter as interface between HiD device and V17111-110 Contrans I socket

	Control side						Field side			
Socket	1	2	3	4	5	6	13	14	15	16
Signal	-	-	-	Ch1(+)	Ch1(-)	-	-	Ch1(+)	Ch1(-)	-
HiD device	-	-	-	11; 17	14; 18	-	-	1	4	-



Do not connect the pins 1, 2, 3, 6, 13, and 16 for the adapter set. If the pins are connected, the circuit will not work and the HiD2872 device or the PLC output may be damaged.

Configuration

Switch settings

Switches for channel I and II	S1	S2	S3	S4	S5	S6	S7	S8
Function								
<ul style="list-style-type: none"> Loop powered Control input: logic signal Line fault detection disabled 	OFF	OFF	ON	OFF	OFF	X	OFF	OFF
<ul style="list-style-type: none"> Loop powered Control input: without control Line fault detection disabled 	OFF	ON	ON	ON	OFF	X	OFF	OFF

Switches for channel I and II	S6
Function	
Filter disable	OFF
Filter enable	ON

Factory setting: bus powered, control input: contact, line fault detection enabled, filter disabled



To reduce the power consumption of the device, we recommend to set the DIP switches of channel II in the OFF condition, when channel II is not used (single channel application).