

**Features**

- 1-channel isolated barrier
- 24 V DC supply (bus powered)
- Current output up to 750 Ω load
- Low power dissipation

**Function**

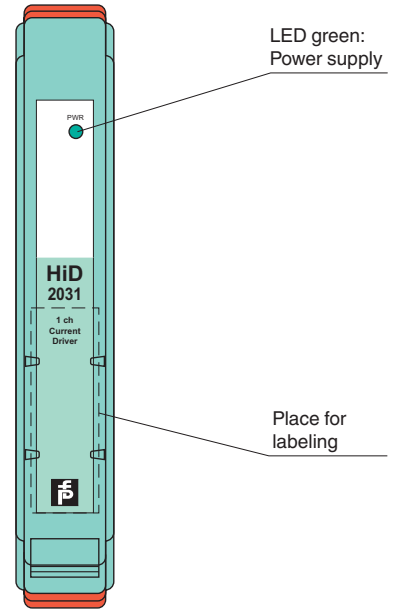
This isolated barrier is used for intrinsic safety applications. It repeats a 4 mA ... 20 mA input signal from a control system to drive I/P converters, valve actuators, and displays located in a hazardous area.

An open field circuit presents a high impedance to the control side to allow alarm conditions to be monitored by control systems.

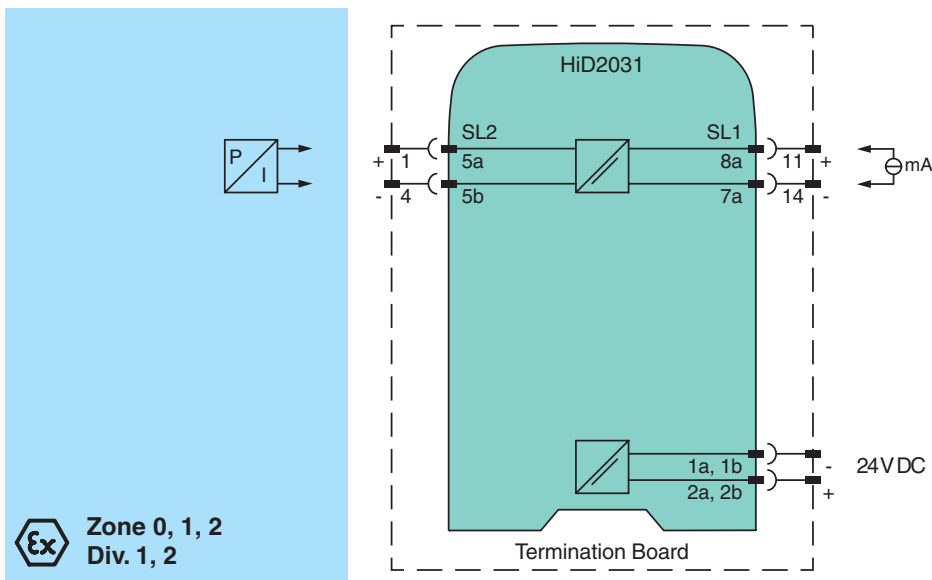
This module mounts on a HiD Termination Board.

**Assembly**

Front view



**Connection**



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

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<b>General specifications</b>		
Signal type		Analog output
<b>Supply</b>		
Connection		SL1: 1a(-), 1b(-); 2a(+), 2b(+)
Rated voltage	$U_r$	20.4 ... 30 V DC bus powered via Termination Board
Rated current	$I_r$	35 mA at 24 V, 20 mA output
Power dissipation		0.75 W at 24 V
<b>Input</b>		
Connection side		control side
Connection		SL1: 8a(+), 7a(-)
Input current		4 ... 20 mA , reverse polarity protected
Signal level		input voltage drop < 4 V with field wiring intact input current < 1.2 mA with field wiring open
<b>Output</b>		
Connection side		field side
Connection		SL2: 5a(+), 5b(-)
Rated current	$I_n$	4 ... 20 mA on a load of max. 750 $\Omega$
Load		0 ... 750 $\Omega$
Output signal		4 ... 20 mA
Ripple		15 mV <sub>eff</sub>
Response time		50 ms , 10 ... 90 % step change
<b>Transfer characteristics</b>		
Accuracy		< $\pm$ 0.1 % of full-scale value
Influence of temperature		< $\pm$ 0.01 %/K
Influence of load		< $\pm$ 0.1 % of full-scale value from 0 ... 750 $\Omega$
Linearity		< $\pm$ 0.1 % of full-scale value
<b>Galvanic isolation</b>		
Input/power supply		functional insulation acc. to DIN EN 50178, rated insulation voltage 50 V <sub>eff</sub>
<b>Indicators/settings</b>		
Display elements		LED
Labeling		space for labeling at the front
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
<b>Conformity</b>		
Electromagnetic compatibility		NE 21:2006 For further information see system description.
Degree of protection		IEC 60529
<b>Ambient conditions</b>		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Relative humidity		5 ... 90 %, non-condensing up to 35 °C (95 °F)
<b>Mechanical specifications</b>		
Degree of protection		IP20
Mass		approx. 140 g
Dimensions		18 x 106 x 128 mm (0.7 x 4.2 x 5 inch)
Mounting		on Termination Board
Coding		pin 1 and 3 trimmed For further information see system description.
<b>Data for application in connection with hazardous areas</b>		
EU-Type Examination Certificate		CESI 02 ATEX 086
Marking		II (1)G [Ex ia Ga] IIC ,  II (1)D [Ex ia Da] IIIC
Output		Ex ia, Ex iaD
Voltage	$U_o$	26 V
Current	$I_o$	93 mA
Power	$P_o$	605 mW
<b>Supply</b>		
Maximum safe voltage	$U_m$	250 V AC (Attention! $U_m$ is no rated voltage.)
<b>Certificate</b>		
Marking		II 3G Ex nA IIC T4 Gc [device in zone 2]
<b>Galvanic isolation</b>		
Input/Output		safe electrical isolation acc. to EN 60079-11: 2007, voltage peak value 375 V
Output/power supply		safe electrical isolation acc. to EN 60079-11: 2007, voltage peak value 375 V
<b>Directive conformity</b>		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010

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<b>International approvals</b>	
CSA approval	
Control drawing	366-005CS-12B (cCSAus)
IECEX approval	IECEX TUN 04.0012
Approved for	[Ex ia] IIC
<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> .

## Configuration

No user configuration available for this device.



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