Current Driver

Place for

labeling

Features Assembly · 2-channel isolated barrier 24 V DC supply (loop powered) Front view • Current output up to 500 Ω load · Low voltage drop • Up to SIL 2 acc. to IEC 61508 **Function** This isolated barrier is used for intrinsic safety applications. It repeats a 4 mA ... 20 mA input signal from a control system to HiD 2034 drive I/P converters, valve actuators, and displays located in a hazardous area. 2 ch Currr Dr' The barrier is loop powered with a low voltage drop and permits detection of line faults by the control system.

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

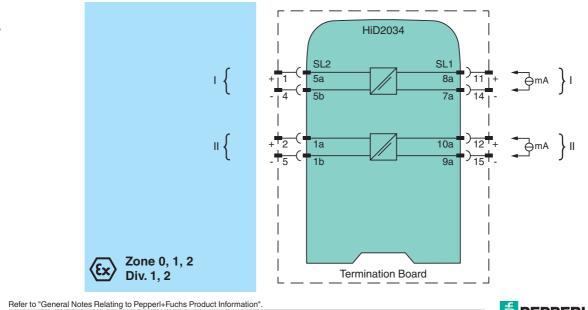
This module mounts on a HiD Termination Board.





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Connection





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

486 0002 Germany: +49

Germany: +49 621 776 2222 pa-info@de.pepperl-fuchs.com Singapore: +65 6779 9091 pa-info@sg.pepperl-fuchs.com

General specifications		
Signal type		Analog output
Functional safety related pa	aramotore	
Safety Integrity Level (SIL)	arameters	SIL 2
Supply		vie input terminale
Connection		via input terminals
Rated voltage	Ur	7 30 V DC loop powered , reverse polarity protected
Power dissipation		0.14 W at 20 mA (per channel)
Input		
Connection side		control side
Connection		SL1: 8a(+), 7a(-); 10a(+), 9a(-)
Input current		4 20 mA , loop powered
Circal Isual		open circuit consumption < 0.8 mA at 24 V
Signal level		voltage drop 7 V at 20 mA and 500 Ω load
Output		
Connection side		field side
Connection		SL2: 5a(+), 5b(-); 1a(+), 1b(-)
Rated current	I _n	4 20 mA on a load of max. 500 Ω
Load		0500 Ω
Output signal		420 mA
Ripple		\leq 40 μ A peak to peak
Response time		50 ms , 10 90 % step change
Transfer characteristics		
Accuracy		$< \pm 0.1$ % of full-scale value
Influence of temperature		<±0.01 %/K
Influence of load		< ± 0.2 % of full-scale value from 0 500 Ω
Linearity		$< \pm 0.1$ % of full-scale value
Indicators/settings		
Labeling		space for labeling at the front
Directive conformity		
Electromagnetic compatibility	,	
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
Conformity		
Electromagnetic compatibility	,	NE 21:2006 For further information see system description.
Degree of protection		IEC 60529
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Relative humidity		5 90 %, non-condensing up to 35 °C (95 °F)
Mechanical specifications		
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.
Data for application in conr with hazardous areas	nection	
EU-Type Examination Certific	ate	CESI 02 ATEX 086
Marking		⟨𝔅⟩ II (1)G [Ex ia Ga] IIC , 𝔅⟩ II (1)D [Ex ia Da] IIIC
Output		Ex ia, Ex iaD
Voltage	Uo	26 V
Current	I _o	93 mA
Power	Po	605 mW
Supply	v	
Maximum safe voltage	U _m	250 V AC (Attention! U _m is no rated voltage.)
Certificate		PF 11 CERT 2109 X
Marking		⟨𝔅⟩ II 3G Ex nA IIC T4 Gc [device in zone 2]
Galvanic isolation		
		safe electrical isolation acc. to EN 60079-11: 2007, voltage peak value 375 V
Input/Output		safe electrical isolation acc. to EN 60079-11:2007, voltage peak value 60 V
Input/Output Output/Output		
Output/Output		······································
Output/Output Directive conformity		
Output/Output Directive conformity Directive 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010
Output/Output Directive conformity		

Release date 2017-08-09 14:48 Date of issue 2017-08-10 121476_eng.xml

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

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Technical data

Control drawing	366-005CS-12B (cCSAus)
IECEx approval	IECEx TUN 04.0012
Approved for	[Ex ia] IIC
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

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.

