Current Driver

Place for

labeling

Features Assembly • 1-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 2033 drive I/P converters, valve actuators, and displays located in a hazardous area. 1 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.

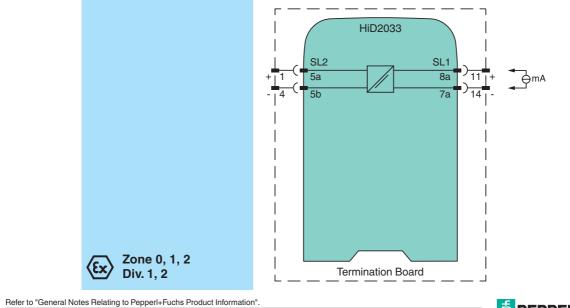
This module mounts on a HiD Termination Board.



SIL 2

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Connection





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General specifications Analog output Functional safely relately related periameters Supput Supply SL 2 Supply SL 2 Owner displand (N) Via input terminals Rated viceging View (SL) SU 2 Owner displand (N) Via input terminals Rated viceging View (SL) SU 2000000000000000000000000000000000000	a	
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Sately Indegriny Level (SL) /	Signal type	Analog output
Supply via input terminalia Rated voltage U, 730 V DC loop powered, reverse polarity protected Power disspation 0.14 V M at 20 mA Connection side control side Connection side control side Connection side control side Connection side Sti 18 a(4), 7a(-) Input current 420 mA, loop powered open circuit consumption < 0.8 mA at 24 V	Functional safety related param	ers
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Power dissipation > 0.14 W at 20 mA Imple Connection side > control side Connection side > control side > control side Connection side 4 20 MA loop powered open circuit consumption < 0.8 mA 124 V	Rated voltage U	7 30 V DC loop powered , reverse polarity protected
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Connection SL1: 84(+), 74(-) Input Current 420 mA, 1000 powered Signal level voltage drop 7 V at 20 mA and 500 Ω load Signal level voltage drop 7 V at 20 mA and 500 Ω load Connection side field side Connection side Signal level Connection Signal level Signal level Signal level Tarsfer characteristics Signal level Tarsfer characteristics Signal level	•	control side
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open circuit consumption < 0.8 mA at 24 V		
Signal level voltage drop 7 V at 20 mA and 500 Ω load Output Index side Connection side Index side Connection side SL2: 5a(+), 5b(-) Rated current 420 mA on a load of max. 500 Ω Load 500 Ω Output signal 40 mA Response time S0ms, 1090% step change Transfer characteristics <40 f full-scale value	input current	
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Load 0500 Ω Output signal 420 mA Ripple ≤ 40,4 peak to peak Response time 50 ms, 1090 % step change Transfer characteristics Cacuracy < ≈ 0.1 % of full-scale value		
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Pesponse time 50 ms, 1090 % step change Transfer characteristics Accuracy < ± 0.1 % of full-scale value		
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Accuracy < ± 0.1 % of full-scale value	Response time	50 ms , 10 90 % step change
Influence of lead < ± 0.01%/K	Transfer characteristics	
Influence of load < ± 0.2 % of full-scale value from 0 500 Ω	Accuracy	$< \pm 0.1$ % of full-scale value
Linearity < ± 0.1 % of full-scale value	Influence of temperature	<±0.01 %/K
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Galvanic isolation		
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input/output sate electrical isolation acc. to EN 60079-11: 2007, voltage peak value 375 V		
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Directive conformity	•	
Directive 2014/34/EU EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010		EN 60079-0:2012+A11:2013, EN 60079-11:2012, EN 60079-15:2010
International approvals		
CSA approval		
Control drawing 366-005CS-12B (cCSAus)	Control drawing	366-005CS-12B (cCSAus)

Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

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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.

