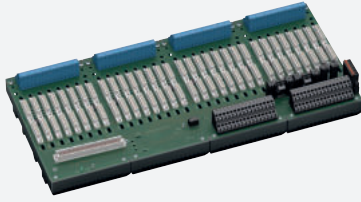


# Termination Board

## HiCTB32-HIM-RAS-SP-DI3202



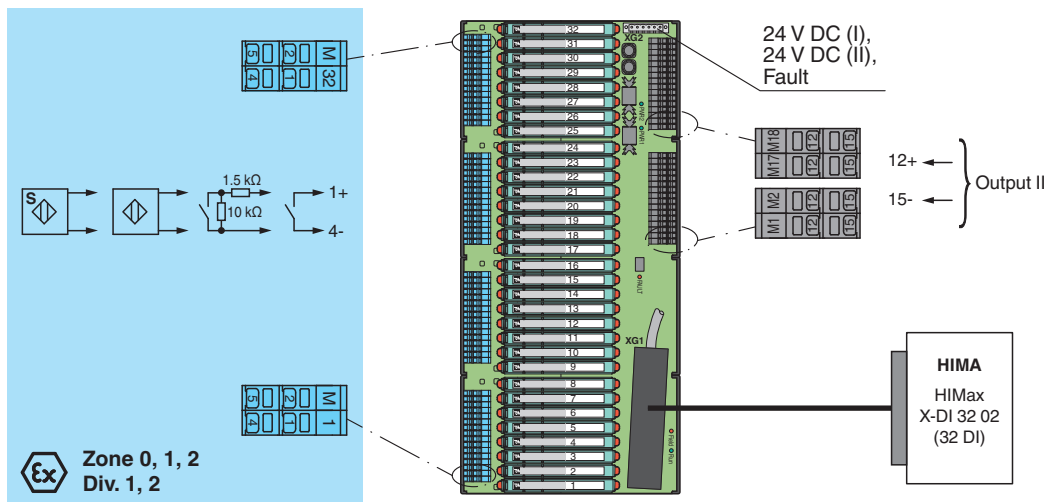
- System board for HIMA, HIMax
- For 32-channel card X-DI 32 02 (DI)
- For 32 modules
- Recommended modules: HiC2831 (DI), HiC2853 (DI)
- 24 V DC supply
- Hazardous area: spring terminals, blue
- Non-hazardous area: HIMA system connector, 96-pin
- Non-hazardous area: spring terminals, black



### Function

The function of the termination board and the connector pin assignment is exactly fitted to the requirements of the HIMA HIMax system. The signal is output to the safety instrumented system via the system connector and additionally via spring terminals (signal splitter function). Information about a missing supply voltage of the isolated barriers is available for the system as a volt-free contact. Wiring faults from the field side will be reported via the same relay contact, if this function is supported by the isolated barriers. The termination board has a robust glass fiber reinforced plastic housing. The termination board is mounted in the switch cabinet on a 35 mm DIN mounting rail according to EN 60175.

### Connection



### Technical Data

<b>Supply</b>	
Connection	XG2: terminals 1, 3 (+); 2, 4 (-)
Nominal voltage	24 V DC , in consideration of rated voltage of used isolators
Voltage drop	0.9 V , voltage drop across the series diode on the termination board must be considered
Ripple	≤ 10 %
Fusing	4 A , in each case for 32 modules
Power dissipation	≤ 500 mW , without modules
Reverse polarity protection	yes
<b>Redundancy</b>	
Supply	Redundancy available. The supply for the isolators is decoupled, monitored and fused.

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

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## Technical Data


<b>Fault indication output</b>		
Connection		XG2: terminals 5, 6
Output type		volt-free contact
Switch behaviour		no fault: relay contact closed power supply fault: relay contact open module fault: relay contact open
Contact loading		30 V DC, 1 A
<b>Indicators/settings</b>		
Display elements		LED PWR1 (termination board power supply), green LED LED PWR2 (termination board power supply), green LED LED FAULT (fault indication), red LED - LED lits: power supply fault - LED flashes: module fault LED Run, green LED - The HIMax I/O module is supplied with power and is connected to the Termination Board (FTA) via a system cable. LED Field, red LED - The HIMax I/O module detects faults in the connection between HIMax I/O module and Termination Board (FTA).
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
<b>Conformity</b>		
Electromagnetic compatibility		NE 21:2017 For further information see system description.
Degree of protection		IEC 60529:2001
<b>Ambient conditions</b>		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
<b>Mechanical specifications</b>		
Degree of protection		IP20
Connection		
Field side		explosion hazardous area: spring terminals , blue
Control side		non-explosion hazardous area: HIMA system connector, 96-pin and spring terminals , black
Supply		pluggable spring terminals , black
Fault output		pluggable spring terminals , black
Core cross section		spring terminals: 0.25 ... 1.5 mm <sup>2</sup> (24 ... 16 AWG)
Material		housing: polycarbonate, 10 % glass fiber reinforced
Mass		approx. 1380 g
Dimensions		432 x 200 x 163 mm (17 x 7.9 x 6.42 inch) (W x H x D) , depth including module assembly
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
<b>Data for application in connection with hazardous areas</b>		
EU-type examination certificate		CESI 06 ATEX 022
Marking		⊕ II (1)G [Ex ia Ga] IIC ⊕ II (1)D [Ex ia Da] IIIC ⊕ I (M1) [Ex ia Ma] I
<b>Non-hazardous area</b>		
Maximum safe voltage		250 V (Attention! U <sub>m</sub> is no rated voltage.)
Galvanic isolation		
Field circuit/control circuit		safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
<b>Directive conformity</b>		
Directive 2014/34/EU		EN IEC 60079-0:2018+AC:2020 , EN 60079-11:2012 , EN 50303:2000
<b>International approvals</b>		
UL approval		E106378
Control drawing		116-0327
IECEx approval		
IECEx certificate		IECEx CES 06.0003

Release date: 2023-02-20 Date of issue: 2023-02-20 Filename: 269875\_eng.pdf

Technical Data

IECEEx marking	[Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Ma] I
General information	
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> .

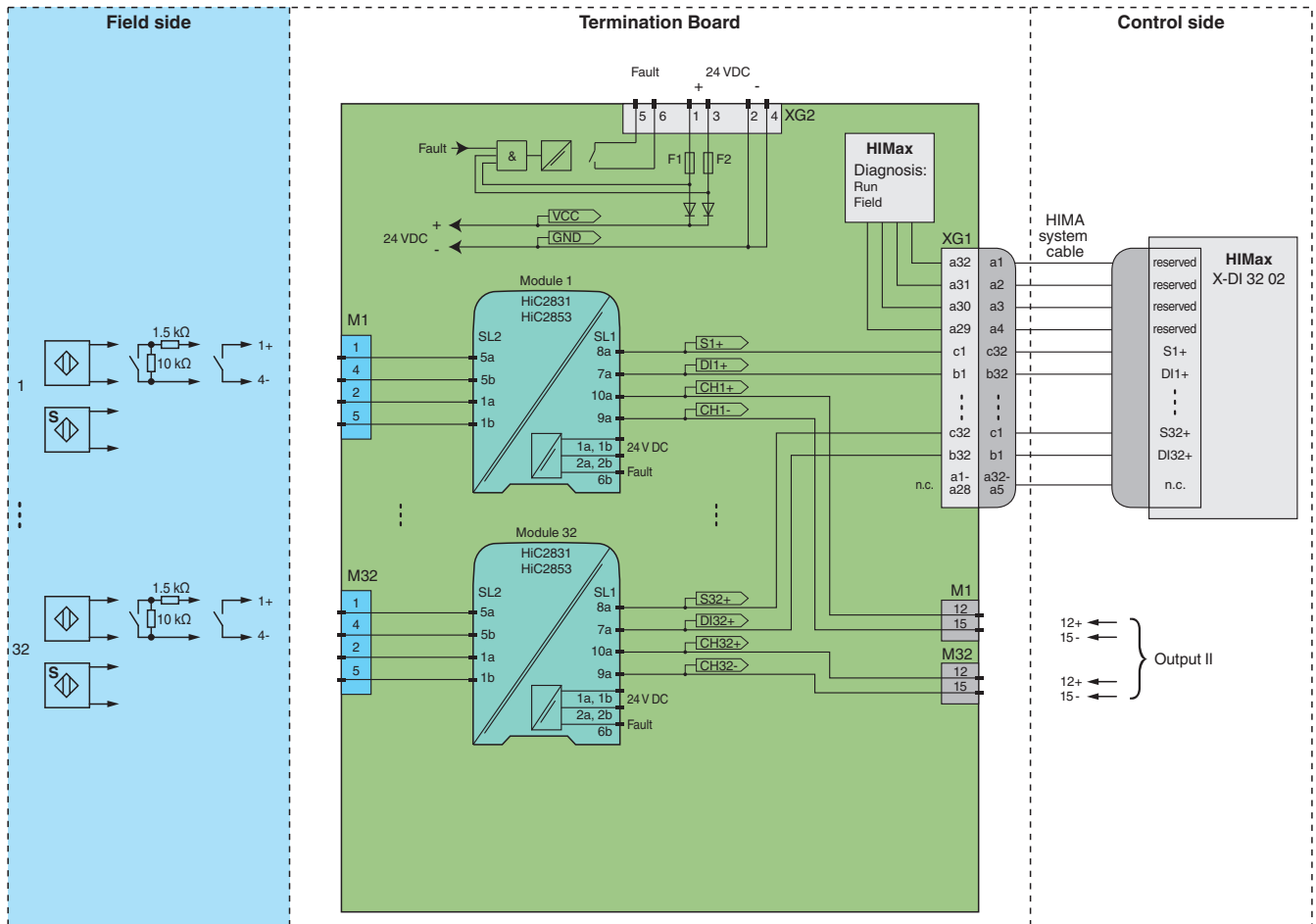
Accessories

	<b>HiALC-HiCTB-SET-108</b>	Label carrier for HiC termination boards
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## Application

### Typical circuit



### Module switch settings

Type (DI)	DIP switch	Position
HiC2831	S1	II
	S2	I
	S3	no function
	S4	no function
HiC2853	not available	



For exact pin assignment for connection to field side and control side, see the documentation of the isolated barrier.



The pin-out configuration has to be observed. For information see corresponding pin-out table on [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).