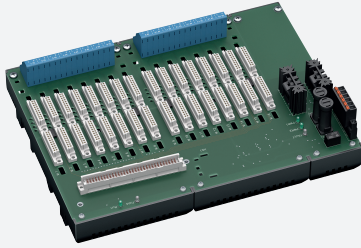


# Termination Board

## HiCTB16-HIM-RAC-SP-DI320X



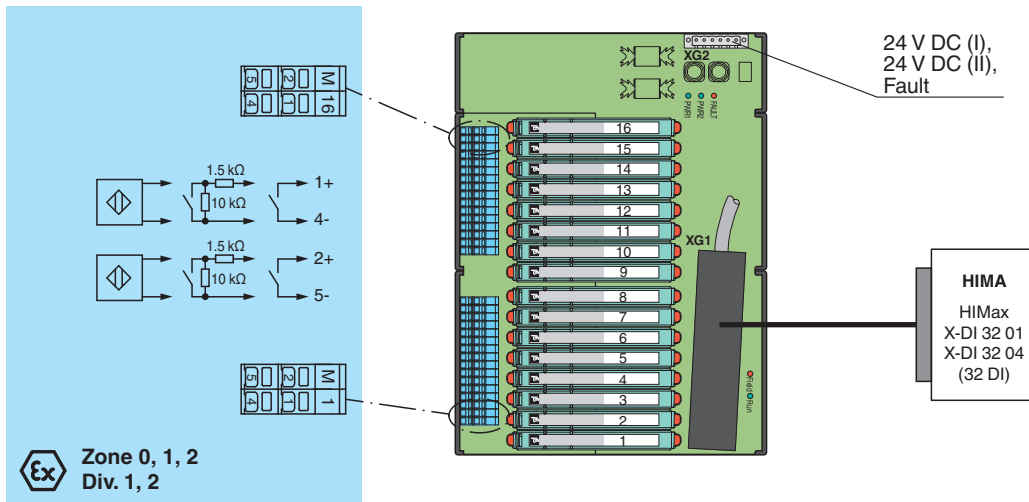
- System board for HIMA, HIMax
- For 32-channel cards X-DI 32 01 or X-DI 32 04 (DI)
- For 16 modules
- Recommended modules: HiC2822 (DI), HiC2842 (DI)
- 24 V DC supply
- Hazardous area: spring terminals, blue
- Non-hazardous area: HIMA system connector, 96-pin



### Function

The function of the Termination Board and the connector pin assignment is exactly fitted to the requirements of HIMA system. The signal is output to the process control system via the system connector. Information about a missing supply voltage of the isolated barriers is available for the system as a volt-free contact. Wiring errors from field side will be reported via the same relay contact, if this function supported by the 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

#### Supply

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 16 modules
Power dissipation	≤ 500 mW , without modules
Reverse polarity protection	yes

#### Redundancy

Supply	Redundancy available. The supply for the isolators is decoupled, monitored and fused.
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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 21:2012 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
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. 800 g
Dimensions	266 x 200 x 163 mm (10.5 x 7.9 x 6.42 inch) , height 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
Non-hazardous area	
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
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , 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

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## Technical Data

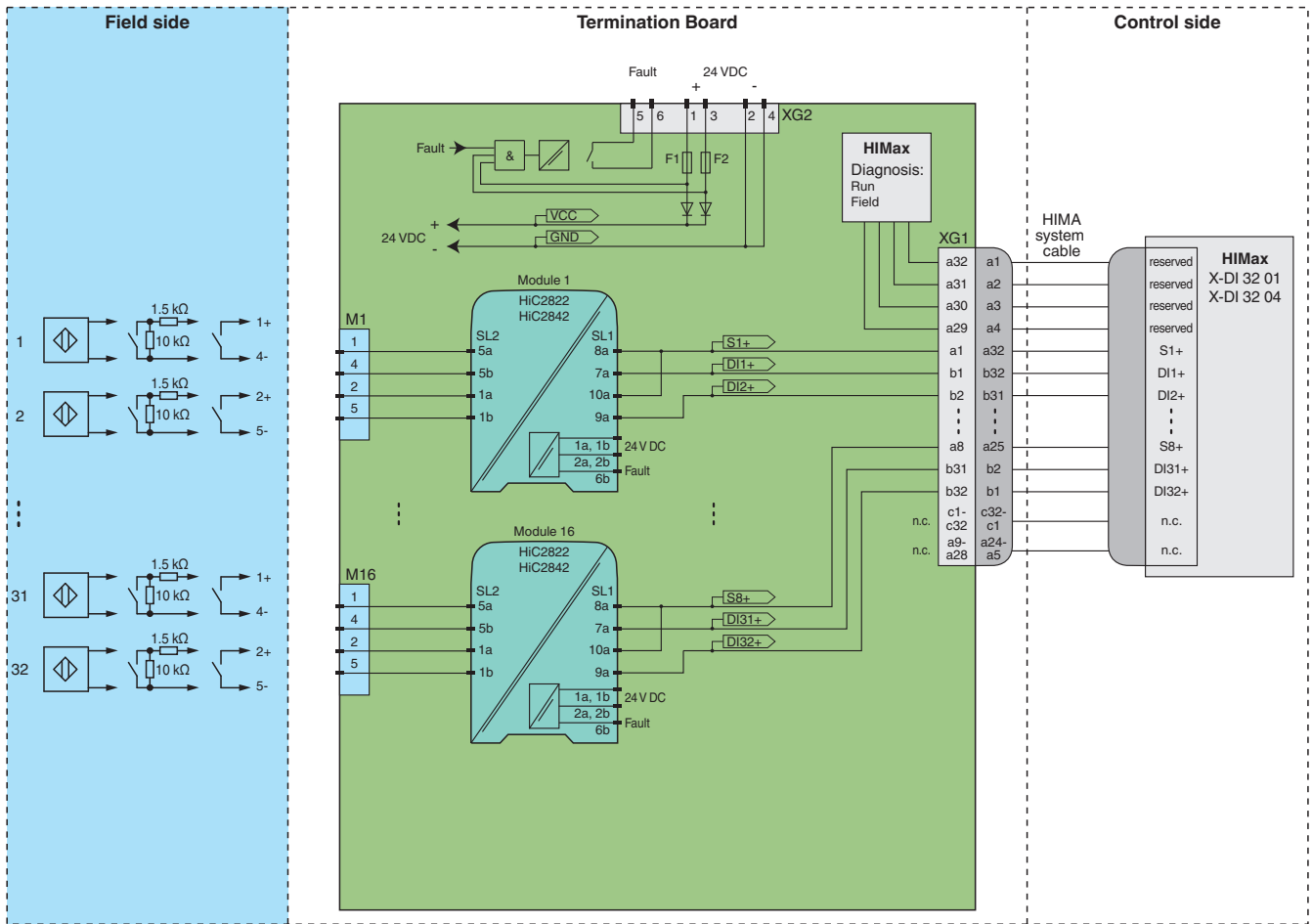
IECEX marking	[Ex ia Ga] IIC [Ex ia Da] IIC [Ex ia Ma] I
<b>General information</b>	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

## Accessories

	<b>HiALC-HiCTB-SET-108</b>	Label carriers for HiC termination boards
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**Application**

**Typical loop**



**Module switch settings**

Type	Channel	DIP switch	Position
HiC2822 (DI), HiC2842 (DI) • Mode of operation: close – energized open – de-energized • Input line fault detection: enabled	1	S1	II
		S2	I
	2	S3	II
		S4	I



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).