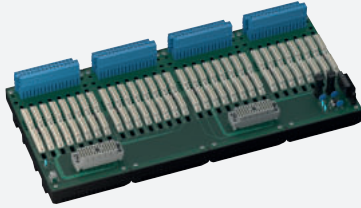


# Termination Board

## HiCTB32-TRI-DOISS-EL-PL-Y1



- System board for Schneider Electric, Tricon series by Triconex
- TAN48 approval
- For 32-channel (16+16) DO cards 3625 and 3664
- For 32 modules
- Recommended modules: HiC2873 (DO), HiC2877 (DO)
- 24 V DC supply
- Hazardous area: pluggable screw terminals, blue
- Non-hazardous area: ELCO socket, 56-pin



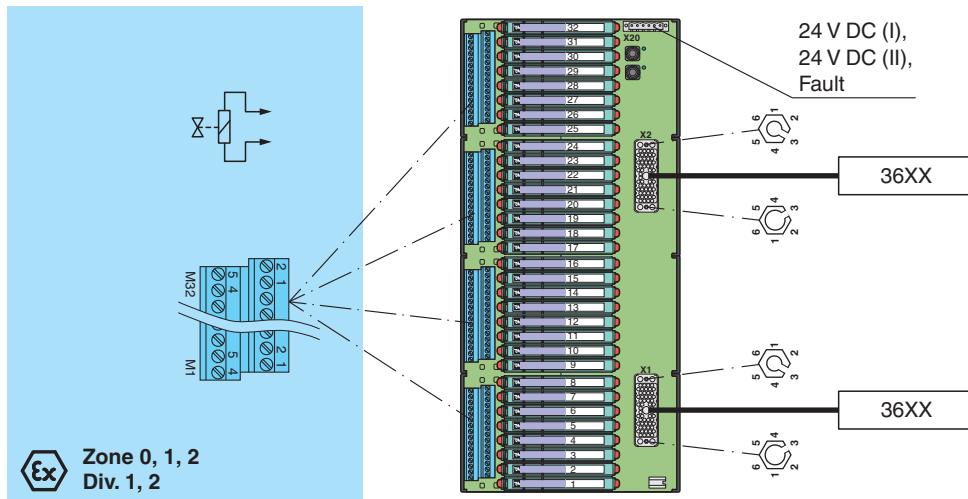
### Function

The function of the termination board and the connector pinout is exactly fitted to the requirements of Triconex system. The termination board has a fault bus (Fault) that is available at the redundant terminals. Power supply faults and module faults are indicated via this fault bus. The fault signals of several termination boards can be connected together and can be monitored by an optional fault indication board. The fault signals are then available to the control system as a volt-free contact. The termination board is supplied with a robust plastic housing. This design permits the fast and reliable installation on 35 mm DIN mounting rail according to EN 60715 in the switch cabinet.

### Application

- Triconex card Tricon:
- Cable 1: channel 1 to 16
  - Cable 2: channel 17 to 32

### Connection



### Technical Data

Supply	
Connection	X20: terminals 3, 5(+); 4, 6(-)
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

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

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## Technical Data



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.
<b>Fault indication output</b>	
Connection	fault bus (Fault) : X20: terminals 1, 2
Output type	volt-free contact
Switch behaviour	fault bus (Fault) - no fault: relay contact of the fault indication board closed - power supply fault: relay contact of the fault indication board open - module fault: relay contact of the fault indication board open
Contact loading	fault bus (Fault) : 30 V DC , 1 A , see fault indication board
<b>Indicators/settings</b>	
Display elements	LED PWR1 (termination board power supply), green LED LED PWR2 (termination board power supply), green LED
<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 ... 70 °C (-40 ... 158 °F)
<b>Mechanical specifications</b>	
Degree of protection	IP20
Connection	
Field side	explosion hazardous area: pluggable screw terminals , blue
Control side	non-explosion hazardous area: ELCO socket, 56-pin
Supply	pluggable screw terminals , black
Fault output	pluggable screw terminals , black
Core cross section	screw terminals: 0.2 ... 2.5 mm <sup>2</sup> (24 ... 12 AWG)
Material	housing: polycarbonate, 10 % glass fiber reinforced
Mass	approx. 1505 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.)
<b>Galvanic isolation</b>	
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: 248357\_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> .

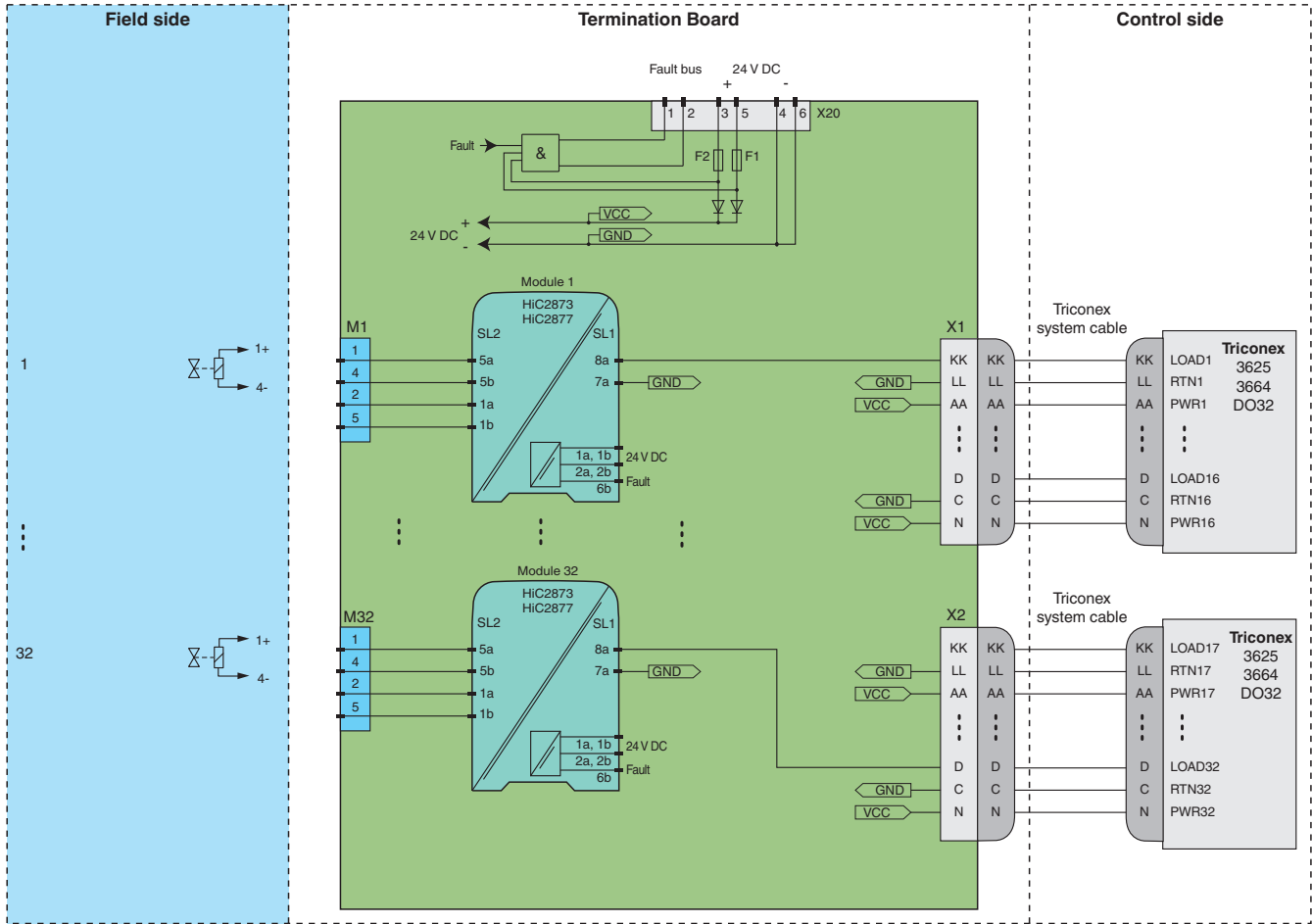
Accessories

	<b>HiALC-HiCTB-SET-108</b>	Label carrier for HiC termination boards
	<b>HiATB01-FAULT-01</b>	Fault Indication Board

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Application

Typical circuit



Module switch settings

Type (DO)	DIP switch	Position
HiC2873, HiC2877 <ul style="list-style-type: none"><li>Loop powered</li><li>Control input: without function</li><li>Line fault detection disabled</li><li>Filter enabled</li></ul>	S1	OFF
	S2	ON
	S3	ON
	S4	ON
	S5	OFF
	S6	ON
	S7	OFF
	S8	OFF



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).