

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.

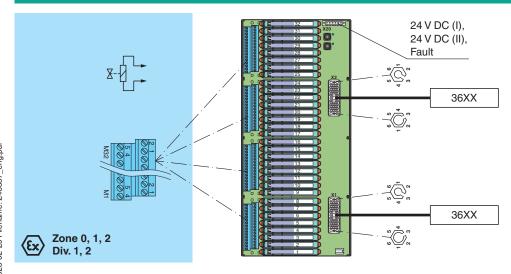
The termination board is supplied with a robust plastic housing. This design permits the fast and reliable installation on 35 mm DIN mounting rail according to EN 60715 in the switch cabinet.

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	
Redundancy	,	
Supply	Redundancy available. The supply for the isolators is decoupled, monitored and fuse	
Fault indication output	Troduction of available. The supply for the location is accounted, memories and table	
Connection	fault bus (Fault): X20: terminals 1, 2	
	radic 500 (1 daily 1.7120. torrimidio 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	
Indicators/settings		
Display elements	LED PWR1 (termination board power supply), green LED LED PWR2 (termination board power supply), green LED	
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)	
Conformity		
Electromagnetic compatibility	NE 21:2017 For further information see system description.	
Degree of protection	IEC 60529:2001	
Ambient conditions		
Ambient temperature	-20 60 °C (-4 140 °F)	
Storage temperature	-40 70 °C (-40 158 °F)	
Mechanical specifications	, , , , , , , , , , , , , , , , , , , ,	
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 ² (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	
Data for application in connection with hazard	dous areas	
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 _m 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		
•	EN IEC 60079-0:2018+AC:2020, EN 60079-11:2012, EN 50303:2000	
Directive 2014/34/EU	EN 1EC 0007 9-0.20 10+AC.2020 , EN 0007 9-11.2012 , EN 0003.2000	
	EN IEC 00079-0.2018+AC.2020 , EN 00079-11.2012 , EN 30303.2000	
International approvals	E106378	
International approvals UL approval		
International approvals	E106378	

Technical Data IECEx 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 www.pepperl-fuchs.com.

Accessories



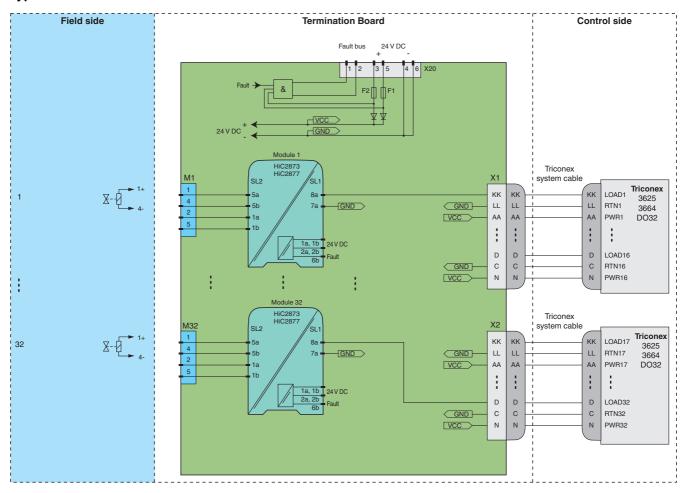
HiALC-HiCTB-SET-108 Label carrier for HiC termination boards

HIATB01-FAULT-01

Fault Indication Board

Application

Typical circuit



Module switch settings

Type (DO)	DIP switch	Position
HiC2873, HiC2877 • Loop powered • Control input: without function • Line fault detection disabled • Filter enabled	S1	OFF
	S2	ON
	S3	ON
	S4	ON
	S5	OFF
	S6	ON
	S 7	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.