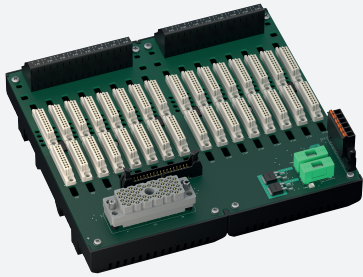


Termination Board

HiCTB16-TRX-RSC-SP-AI16-NEX



- System board for Schneider Electric, Tricon CX series by Triconex
- For 32-channel (16+16) AI cards 3722X and 3723X
- For 16 modules
- Recommended modules: HiC2025(A) (AI), HiC2081 (TI)
- 24 V DC supply
- Field side: spring terminals, black
- Control side: ELCO socket, 56-pin



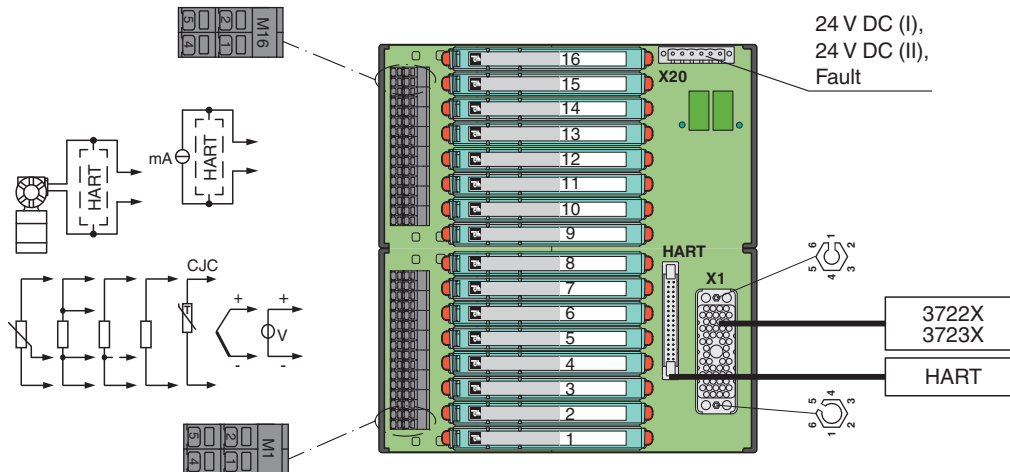
Function

The function of the termination board and the system connector pin assignment is exactly fitted to the requirements of the Triconex Tricon CX system.
 The signal is output to the safety instrumented system via the system connector.
 Information about missing supply voltage of the isolated barriers is available for the system at the volt-free transistor output.
 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.

Application

- Triconex card Tricon CX:
- Termination board 1 and cable 1: channel 1 ... 16
 - Termination board 2 and cable 2: channel 17 ... 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 16 modules

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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 fused.
Fault indication output		
Connection		X20: terminals 1(+), 2(-)
Output type		volt-free transistor output , not short-circuit protected , not overload protected
Rated voltage	U_r	30 V DC
Rated current	I_r	100 mA
Signal level		no fault: (external voltage) - 1 V max. for 100 mA ($T_{amb} = 25\text{ °C}$ (77 °F)) power supply fault: blocked output (off-state current ≤ 10 μA)
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 ... 85 °C (-40 ... 185 °F)
Mechanical specifications		
Degree of protection		IP20
Connection		
Field side		4 spring terminals per module , black
Control side		ELCO socket, 56-pin
Supply		pluggable spring terminals , black
Fault output		pluggable spring terminals , black
Core cross section		spring terminals 0.25 ... 1.5 mm ² (24 ... 16 AWG)
Material		housing: polycarbonate, 10 % glass fiber reinforced
Mass		approx. 675 g
Dimensions		216 x 200 x 163 mm (8.5 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
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .

Accessories






	HiATB01-HART-2X16	HART Communication Board
	HiDMux2700	HART Multiplexer Master
	H-CJC-Pt100	Resistance thermometer for cold junction compensation for H-System termination boards
	HiACA-UNI-FLK34-FLK34-0M5	HART Connection Cable, length: 0,5 m

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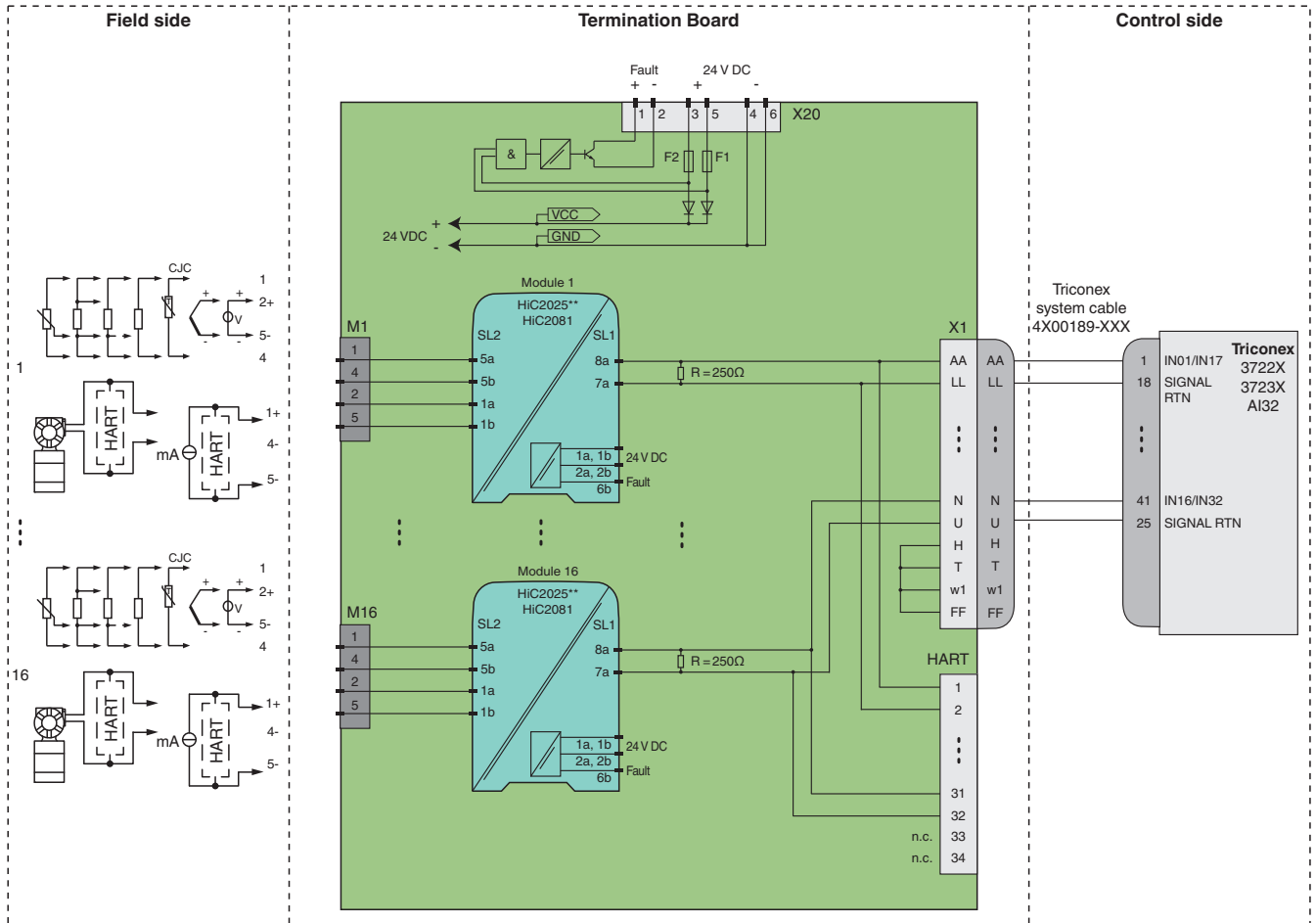
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Accessories

	HiACA-UNI-FLK34-FLK34-1M0	HART Connection Cable, length: 1 m
	HiACA-UNI-FLK34-FLK34-2M0	HART Connection Cable, length: 2 m
	HiACA-UNI-FLK34-FLK34-3M0	HART Connection Cable, length: 3 m
	HiACA-UNI-FLK34-FLK34-6M0	HART Connection Cable, length: 6 m
	HiALC-HiCTB-SET-108	Label carrier for HiC termination boards

Application

Typical circuit



Module switch settings

Type (AI)	DIP switch	Position
HiC2025, HiC2025A, HiC2025Y1 (source 4 mA ... 20 mA)	S1	OFF
	S2	OFF
	S3	ON
	S4	OFF

Type (AI)	DIP switch	Position
HiC2081 (source)	S	I



For exact pin assignment for 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.