



Termination Board

HiCTB08-TRI-AOISS-EL-PL

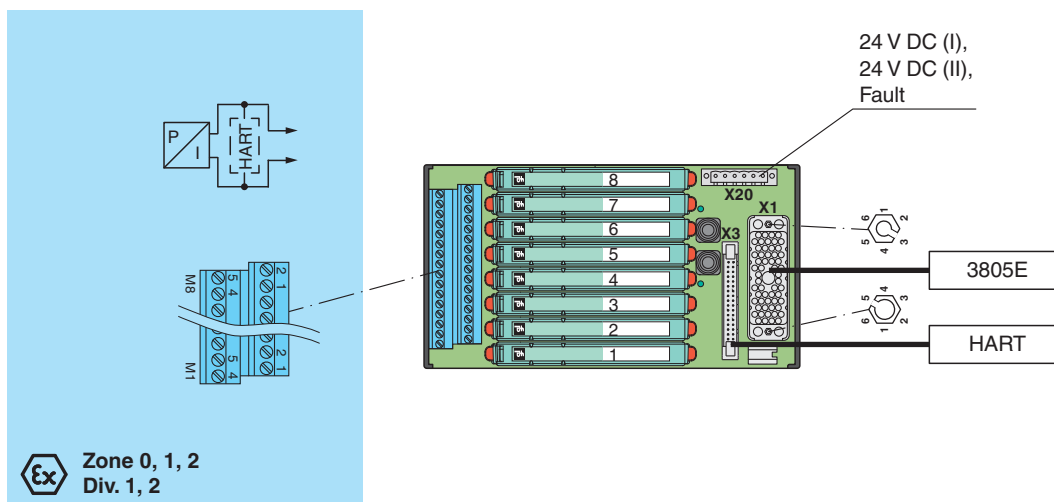
- System board for Schneider Electric, Tricon series by Triconex
- TAN48 approval
- For 8-channel AO card 3805E
- For 8 modules
- Recommended module: HiC2031 (AO)
- 24 V DC supply
- Hazardous area: pluggable screw terminals, blue
- Non-hazardous area: ELCO socket, 56-pin



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.

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	2 A , in each case for 8 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.

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

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Technical Data

Fault indication output		
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
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. 440 g
Dimensions		108 x 200 x 163 mm (4.25 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 hazardous 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		
Directive 2014/34/EU		EN IEC 60079-0:2018+AC:2020 , EN 60079-11:2012 , EN 50303:2000
International approvals		
UL approval		E106378
Control drawing		116-0327
IECEx approval		
IECEx certificate		IECEx CES 06.0003
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 .

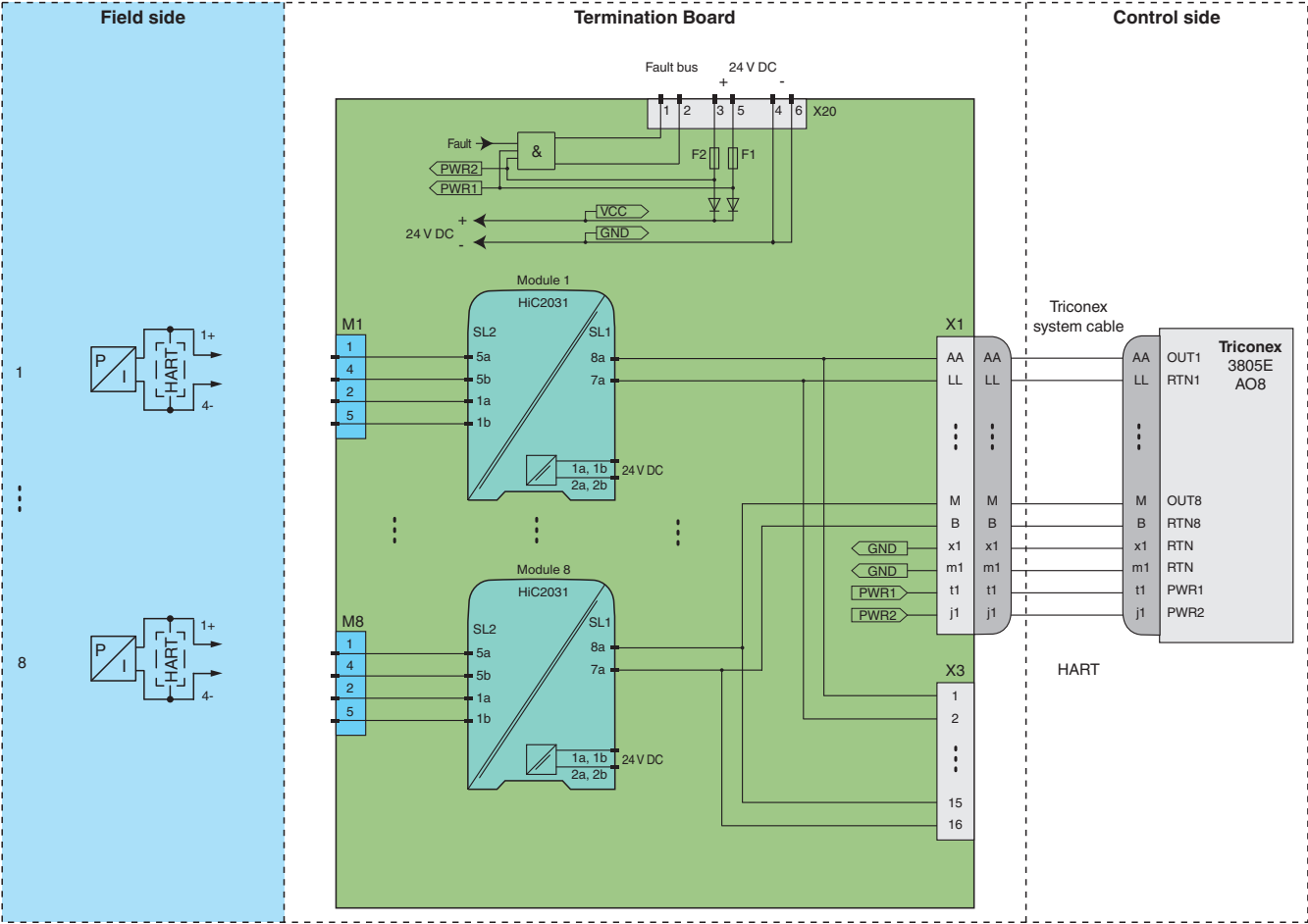
Release date: 2023-02-20 Date of issue: 2023-02-20 Filename: 230415_eng.pdf

Accessories

	HiATB01-HART-4X8	HART Communication Board
	HiATB01-FAULT-01	Fault Indication Board
	HiDMux2700	HART Multiplexer Master
	HiACA-UNI-FLK34-FLK34-0M5	HART Connection Cable, length: 0,5 m
	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 (AO)	
HiC2031	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.