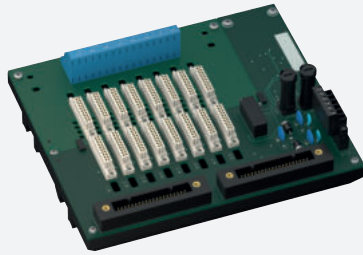


Termination Board

HiCTB08-YC3-RRB-KS-CC-AM08



- System board for Yokogawa CENTUM VP
- For 8-channel AI card AAI135
- For 8-channel AI/AO card AAI835
- For 8 modules
- Recommended modules: HiC2025(A) (AI), HiC2031 (AO)
- 24 V DC supply
- Hazardous area: spring terminals, blue
- Non-hazardous area: Yokogawa system connector, 40-pin



Function

The function of the termination board and the connector pin assignment is exactly fitted to the requirements of the Yokogawa Centum VP system. The signal is output to the process control system via the system connector. Information about a missing supply voltage of the isolators is available for the system as a volt-free contact. Wiring faults from the field side will be reported via the same relay contact, if this function is supported by the isolators. The termination board has a robust plastic housing. The termination board is mounted in the switch cabinet on a 35 mm DIN mounting rail according to EN 60175.

Application

Assembly of the termination board:

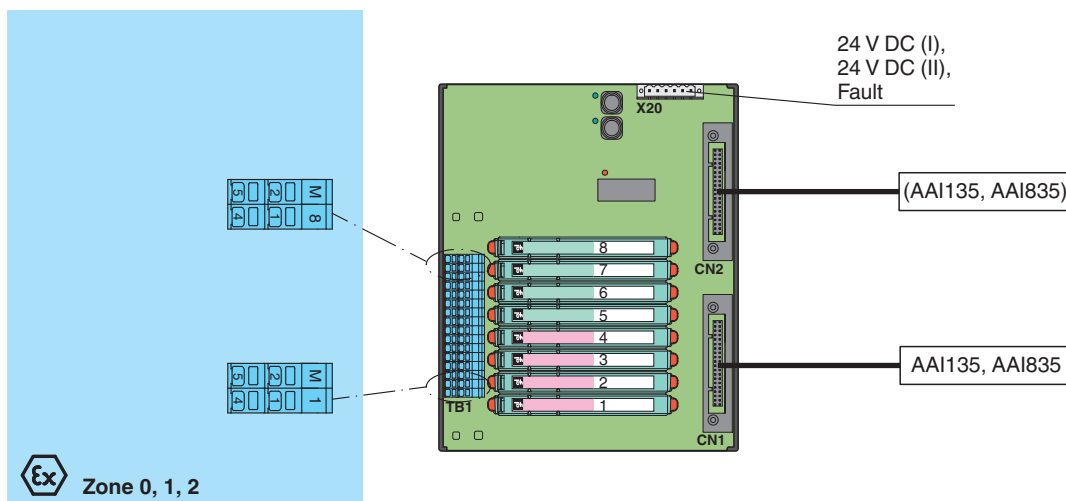
AI card AAI135:

- Plug-in position 1 to 8: AI modules

AI/AO card AAI835:

- Plug-in position 1 to 4: AI modules
- Plug-in position 5 to 8: AO modules

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

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

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Technical Data

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.
Fault indication output		
Connection		X20: terminals 1, 2
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
Indicators/settings		
Display elements		LEDs PWR ON (Termination Board power supply) - LED power supply I, green LED - LED power supply II, green LED LED FAULT (fault indication), red LED - LED lits: module fault - LED flashes: power supply fault
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: spring terminals , blue
Control side		non-explosion hazardous area: Yokogawa system connector, 40-pin
Supply		pluggable screw terminals , black
Fault output		pluggable screw terminals , black
Core cross section		spring terminals: rigid: 0.2 ... 2.5 mm ² flexible: 0.25 ... 1.5 mm ²
Material		housing: polycarbonate
Mass		approx. 480 g
Dimensions		205 x 175 x 153 mm (8.1 x 6.9 x 6.02 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		
IECEx approval		

Release date: 2023-02-20 Date of issue: 2023-02-20 Filename: 236170_eng.pdf

Technical Data

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 .

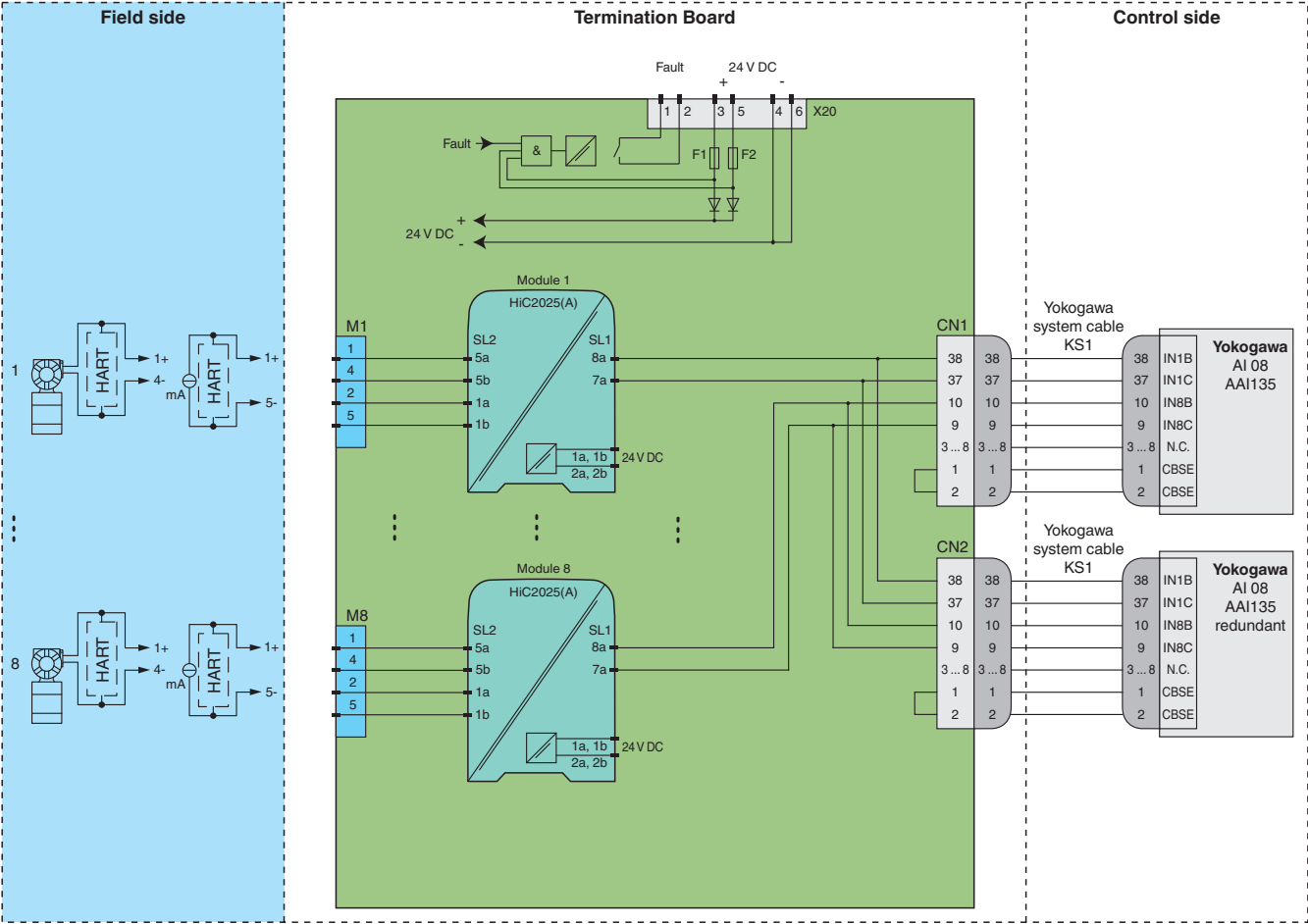
Accessories

	HIALC-HIDTB-SET-150	Label carrier for HiD termination boards
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Release date: 2023-02-20 Date of issue: 2023-02-20 Filename: 236170_eng.pdf

Application

Typical input circuit

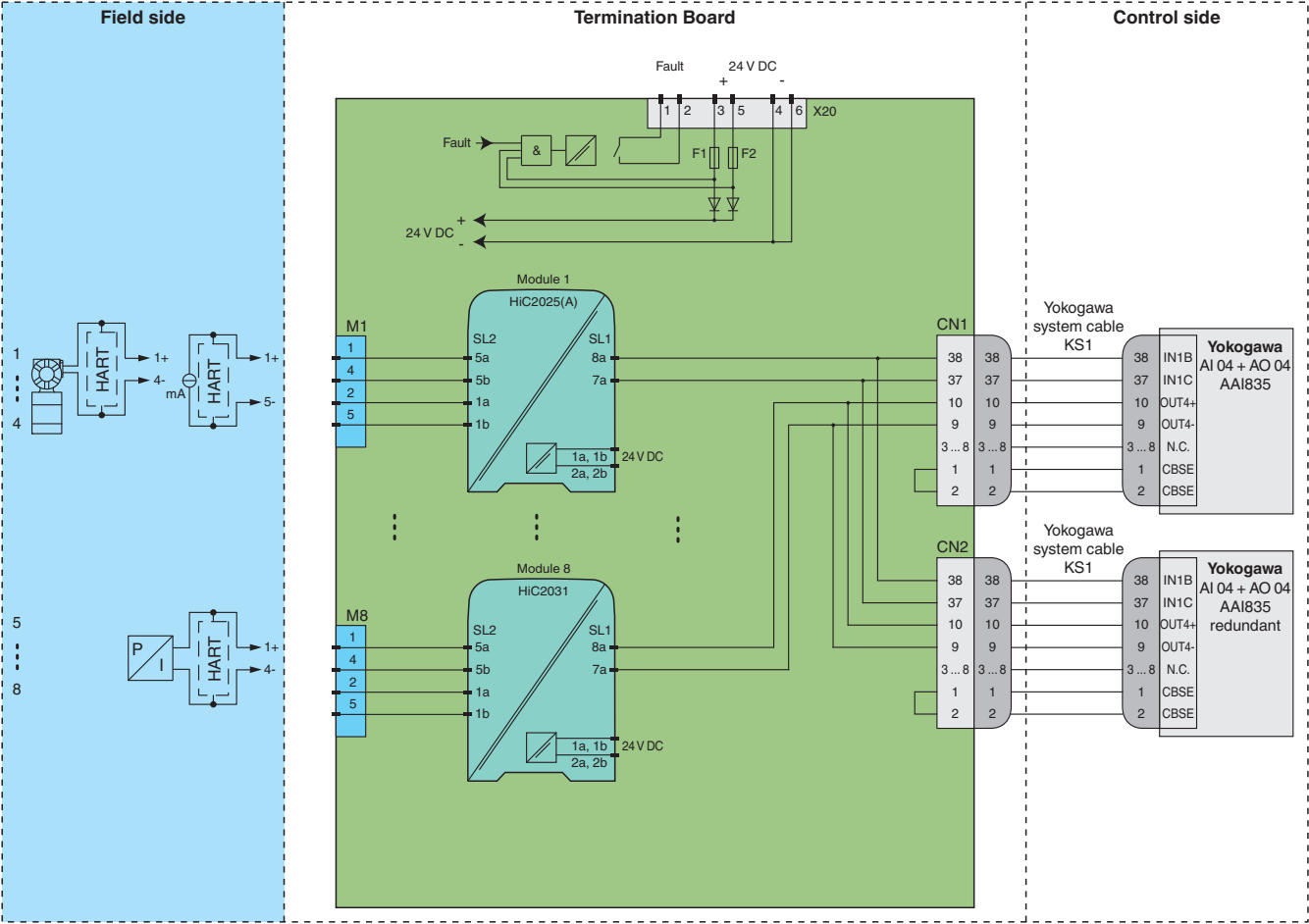


Module switch settings

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

Card switch settings

Type (AI)	Function
AAI135	none



Module switch settings

Type (AI)	DIP switch	Position
HiC2025, HiC2025A (current source 4 mA ... 20 mA)	S1	OFF
	S2	OFF
	S3	ON
	S4	OFF
Type (AO)		
HiC2031	not available	

Card switch settings

Type (AI)	Function
AAI835	none
Type (AO)	Function
AAI835	none



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.