

Features

- System board for Yokogawa CENTUM VP
- For 16-channel AI card AAI143
- For 16 modules
- Recommended module: HiC2025 (AI)
- 24 V DC supply
- Hazardous area: spring terminals, blue
- Safe area: Yokogawa system connector, 40-pin

Function

The function of the Termination Board as well as the connector pin assignment exactly fit the requirement of Yokogawa systems.

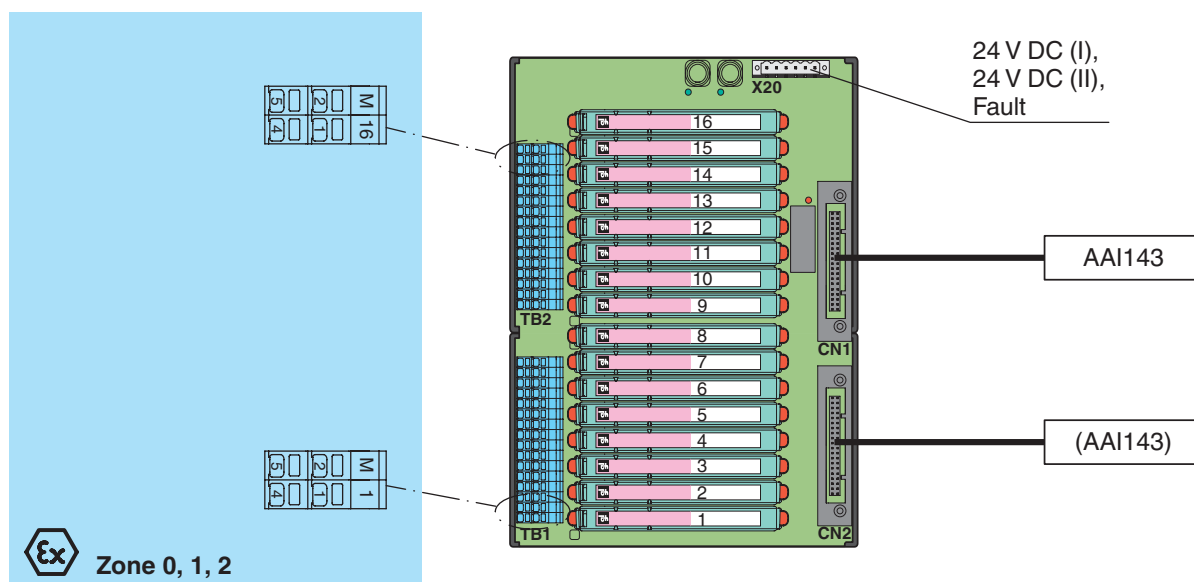
Information about missing supply voltage of the interface modules is available for the system as potential-free contact. Wiring errors from field will be reported via the same relay contact if the interface module supports this function.

The Termination Boards are supplied with a robust glass fiber reinforced plastic housing as standard. This design permits the fast and reliable installation on 35 mm DIN mounting rail acc. to EN 60715 in the cabinet.

Assembly



Connection



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

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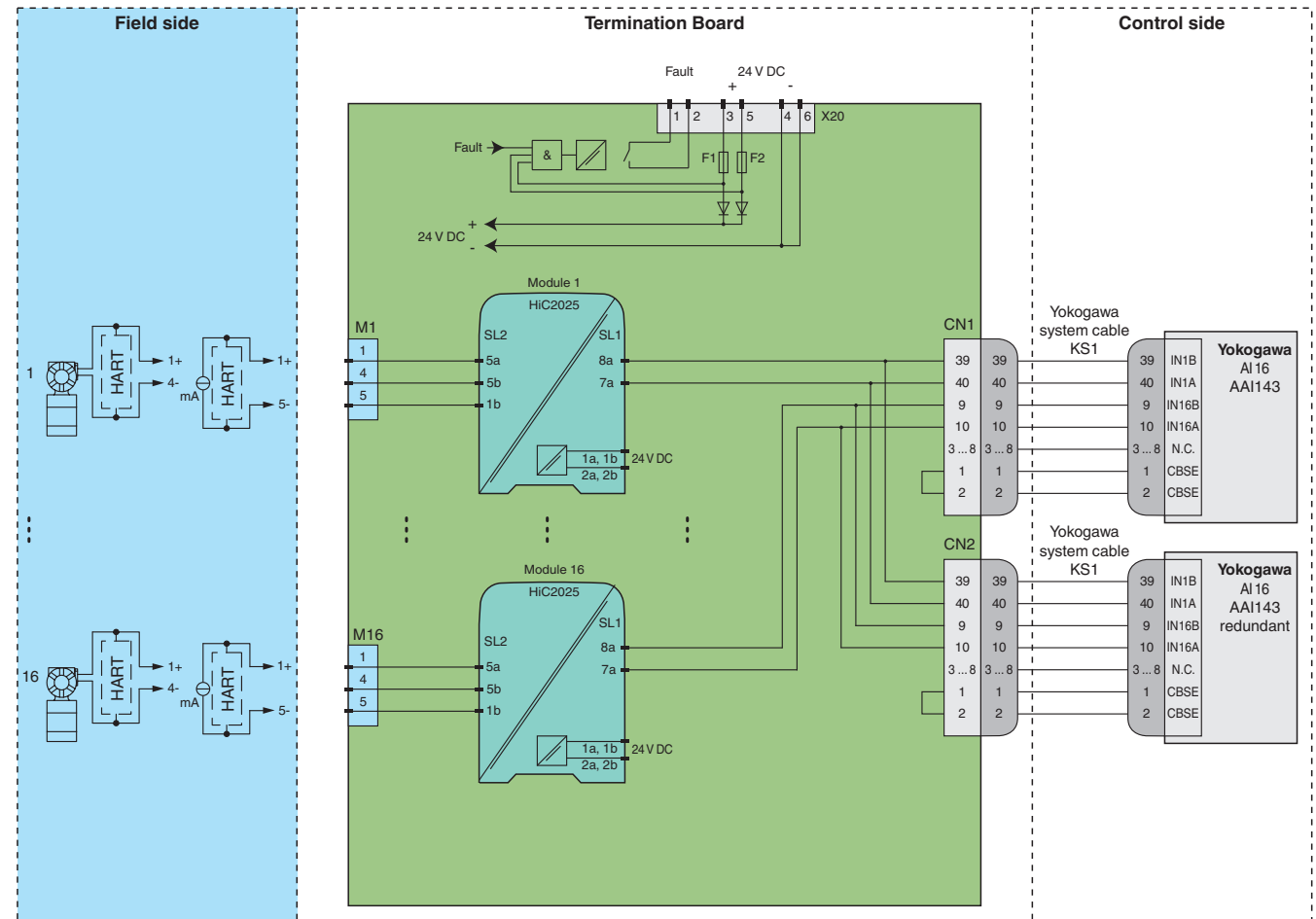
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Supply	
Nominal voltage	24 V DC , in consideration of rated voltage of used isolators
Voltage drop	0.9 V , voltage drop across the series diode on the termination board must be considered
Ripple	≤ 10 %
Fusing	4 A , in each case for 16 modules
Power 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	
Output type	volt-free contact
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 failure - LED flashes: power supply failure
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
Conformity	
Electromagnetic compatibility	NE 21:2012 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. 650 g
Dimensions	240 x 175 x 153 mm (9.45 x 6.9 x 6.02 inch) , height 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
Safe 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 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 50303:2000
International approvals	
IECEX approval	IECEX CES 06.0003
Approved for	[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	
Designation	optional accessory: Label Carrier HiALC-Hi*TB-SET-1**

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Application

Typical loop



Module switch settings

Type (AI)	DIP switch	Position
HiC2025 (source)	S1	OFF
	S2	OFF
	S3	ON
	S4	OFF

Card switch settings

Type (AI)	Function
AAI143 (sink)	4-wire



The pin-out configuration has to be observed. For information see corresponding pin-out table on www.pepperl-fuchs.com.

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