

## Features

- System board for Yokogawa CENTUM VP
- For 32-channel DI card ADV151
- For 8 modules
- Recommended modules: HiD2824 (DI), HiD2844 (DI)
- 24 V DC supply
- Hazardous area: spring terminals, blue
- Safe area: Yokogawa system connector, 50-pin

## Function

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

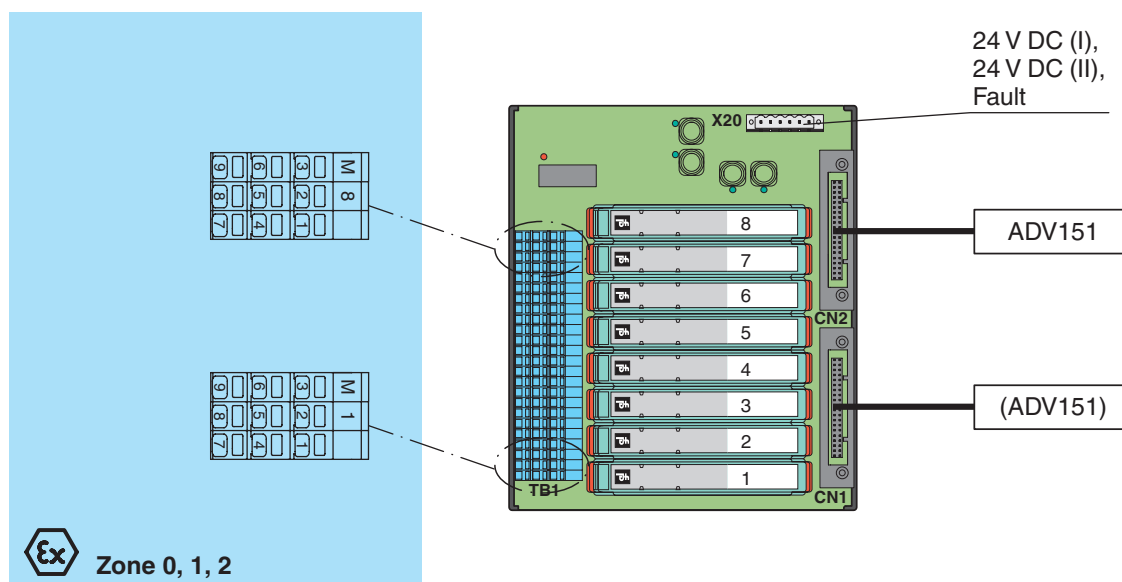
Information about missing supply voltage of the interface modules is available for the system as potential-free contact. Wiring errors from field will be reported via the same relay contact if the interface module supports this function.

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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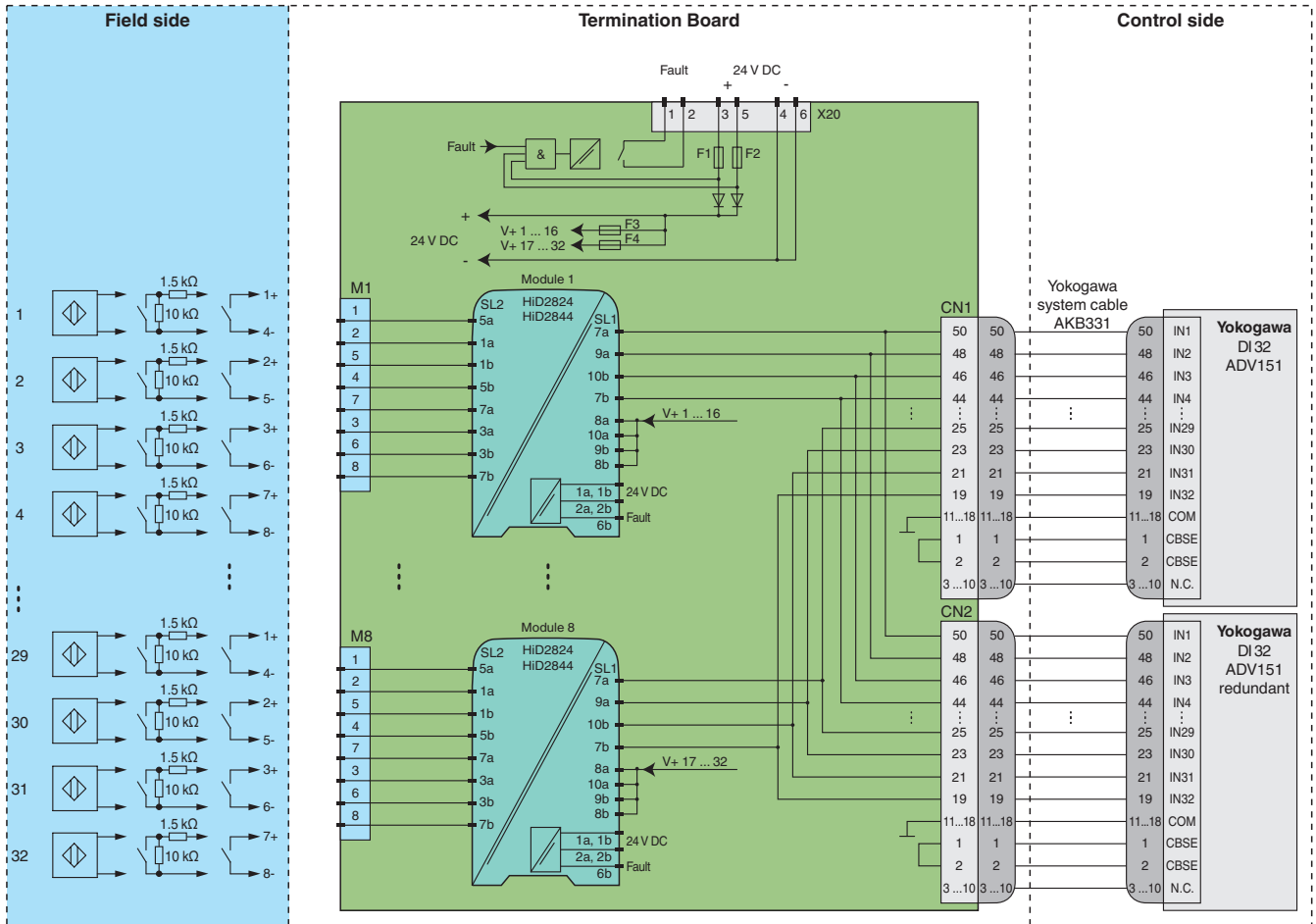
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<b>Supply</b>	
Nominal voltage	24 V DC , in consideration of rated voltage of used isolators
Voltage drop	0.9 V , voltage drop across the series diode on the termination board must be considered
Ripple	≤ 10 %
Fusing	2 A , in each case for 8 modules
Power dissipation	≤ 500 mW , without modules
Reverse polarity protection	yes
<b>Redundancy</b>	
Supply	Redundancy available. The supply for the isolators is decoupled, monitored and fused.
<b>Fault indication output</b>	
Output type	volt-free contact
Contact loading	30 V DC , 1 A
<b>Indicators/settings</b>	
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
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
<b>Conformity</b>	
Electromagnetic compatibility	NE 21:2012 For further information see system description.
Degree of protection	IEC 60529:2001
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
<b>Mechanical specifications</b>	
Degree of protection	IP20
Connection	
Field side	explosion hazardous area: spring terminals , blue
Control side	non-explosion hazardous area: Yokogawa system connector, 50-pin
Supply	pluggable screw terminals , black
Fault output	pluggable screw terminals , black
Core cross-section	spring terminals: rigid: 0.2 ... 2.5 mm <sup>2</sup> flexible: 0.25 ... 1.5 mm <sup>2</sup>
Material	housing: polycarbonate
Mass	approx. 550 g
Dimensions	205 x 175 x 153 mm (8.1 x 6.9 x 6.02 inch) , height including module assembly
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
<b>Data for application in connection with hazardous areas</b>	
EU-Type Examination Certificate	CESI 11 ATEX 062
Marking	 II (1)G [Ex ia Ga] IIC  II (1)D [Ex ia Da] IIIC  I (M1) [Ex ia Ma] I
<b>Safe area</b>	
Maximum safe voltage	250 V (Attention! U <sub>m</sub> is no rated voltage.)
<b>Galvanic isolation</b>	
Field circuit/control circuit	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
<b>Directive conformity</b>	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 50303:2000
<b>International approvals</b>	
IECEX approval	IECEX CES 11.0022
Approved for	[Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Ma] I
<b>General information</b>	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .
<b>Accessories</b>	
Designation	optional accessory: Label Carrier HiALC-Hi*TB-SET-1**

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Application

Typical loop



The pin-out configuration has to be observed. For information see corresponding pin-out table on [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).