

## Features

- For 8 modules
- 24 V DC supply
- Supported signal types: DI/DO/AI/TI/AO
- Hazardous area: screw terminals, blue
- Safe area: screw terminals, black

## Function

This Termination Board has 8 plug-in slots. Any HiD module can be inserted into any slot, enabling a mixture of I/O types on one Termination Board.

The Termination Board features fixed screw terminals for the hazardous and for the safe area along with a plug-in HART connector for interconnection to a separate HART Communication Board.

Information about missing supply voltage of the interface modules is available for the system as volt-free contact at the redundant power supply terminals. 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.

## Application

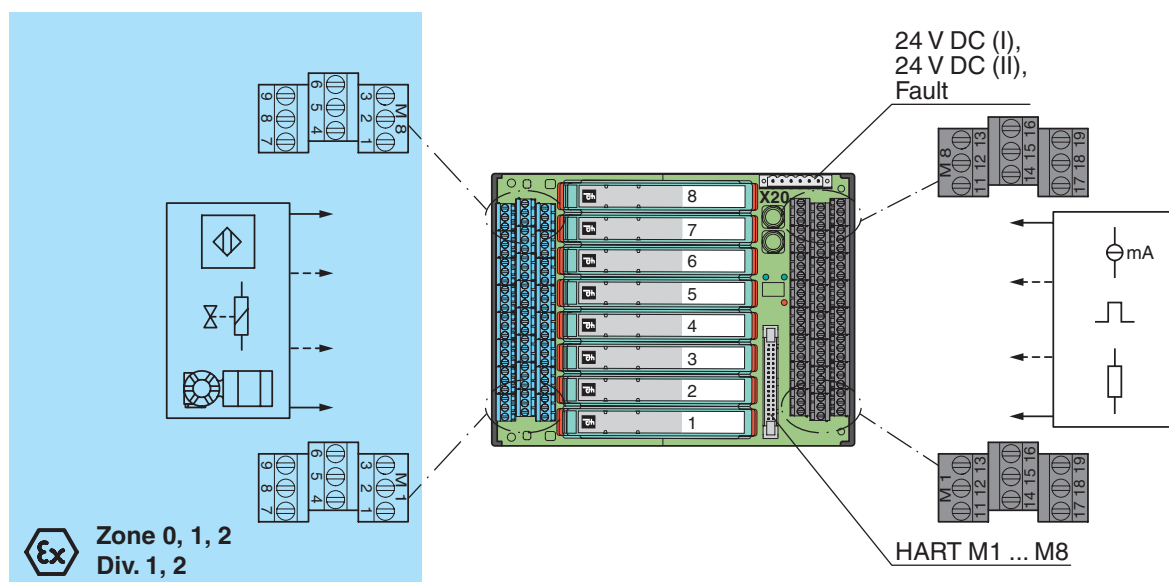
Terminal assignment of module in use has to be observed.

- when using 1- or 2-channel modules: full HART support
- when using 4-channel modules: HART support only with channels 1 and 2 for each module

## Assembly



## Connection



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

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<b>Supply</b>	
Connection	X20: terminals 3, 5 (+); 4, 6 (-)
Rated voltage	$U_n$ 24 V DC , in consideration of rated voltage of used isolated barriers
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 modules is decoupled, monitored and fused.
<b>Error message output</b>	
Connection	X20: terminals 1, 2
Output type	volt-free contact
Contact loading	30 V DC, 1 A
<b>Indicators/settings</b>	
Display elements	LED PWR1 (Termination Board power supply), green LED LED PWR2 (Termination Board power supply), 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 21:2011 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	hazardous area connection (field side): screw terminals, blue safe area connection (control side): screw terminals, black power supply connection: pluggable screw terminals, black
Core cross-section	0.25 ... 1.5 mm <sup>2</sup> (24 ... 12 AWG)
Material	housing: polycarbonate, 10 % glass fiber reinforced
Mass	approx. 740 g
Dimensions	150 x 200 x 163 mm (5.9 x 7.9 x 6.42 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>	
EC-Type Examination Certificate	CESI 11 ATEX 062
Group, category, type of protection	 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! $U_m$ is no rated voltage.)
<b>Electrical 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>	
CSA approval	
Control drawing	see control drawing of corresponding modules
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	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .
<b>Accessories</b>	

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<p>Designation</p>	<p>optional accessories:</p> <ul style="list-style-type: none"> <li>- HART communication board for 1-channel modules: HiATB01-HART-4X8-Y1</li> <li>- HART communication board for 2-channel modules: HiATB01-HART-2X16</li> <li>- HART multiplexer master HiDMux2700</li> <li>- HART connection cable HiACA-UNI-FLK34-*M*</li> <li>- label carrier HiALC-Hi*TB-SET-1**</li> </ul>
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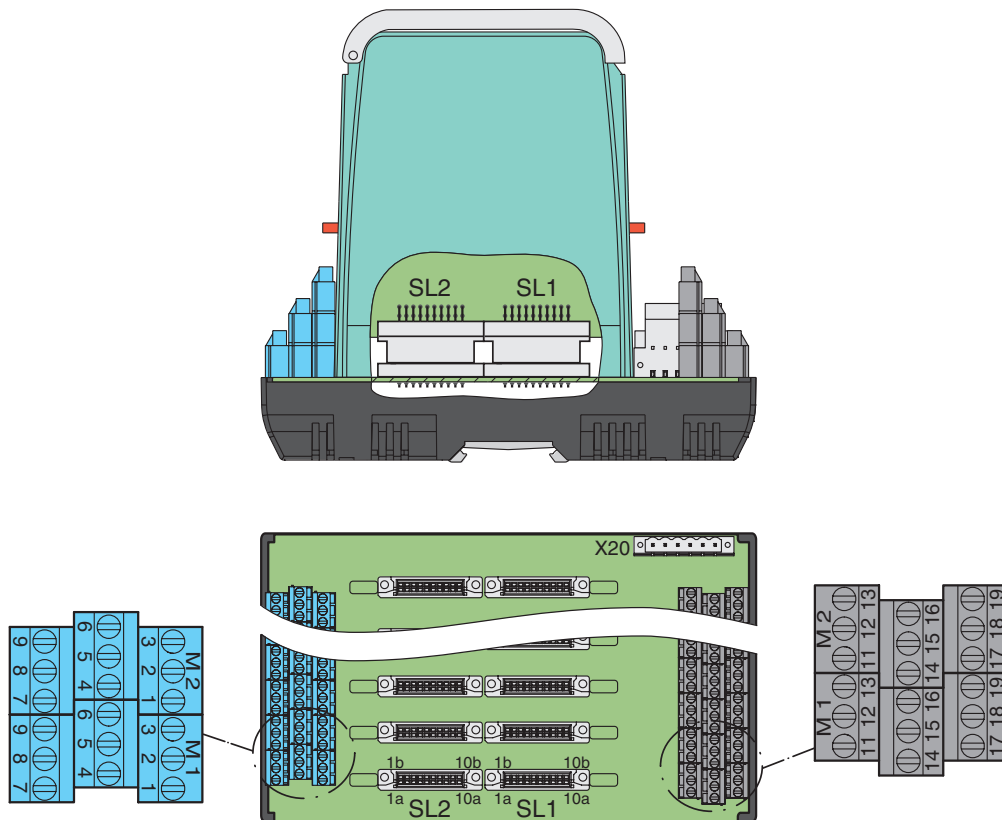
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Application



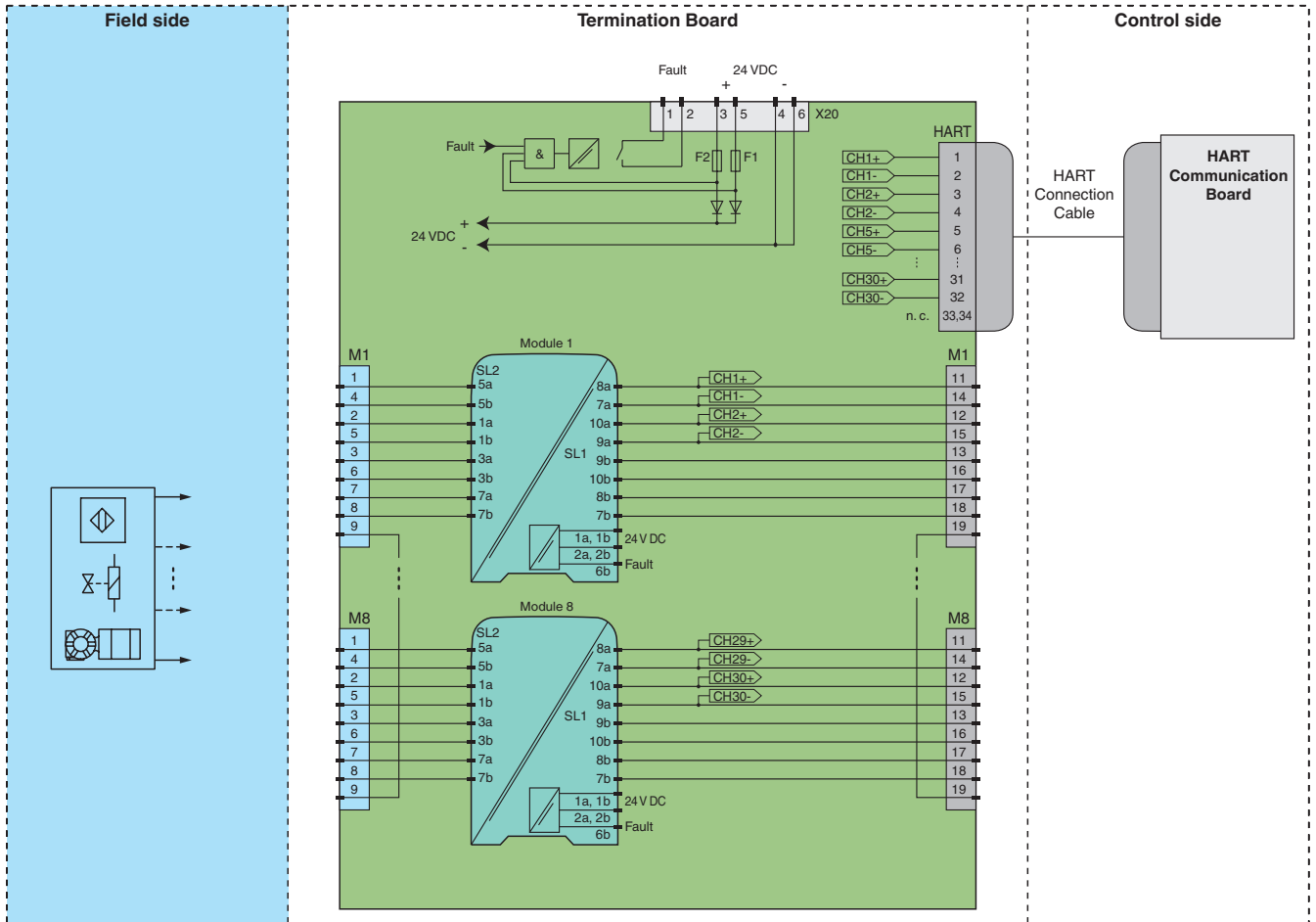
Insert the isolated barrier on the Termination Board. This closes the signal circuit between field side and control side. Connect field devices and controller to the terminals or connecting plugs of the Termination Board. For pin assignment between terminals, connecting plugs and connectors SL1/SL2, see drawing "Connection diagram" or the corresponding pin-out table on [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com).



For exact pin assignment for fieldside and control side, see the documentation of the isolated barrier.

Application

Connection diagram



For exact pin assignment for connection to field side and control side, see the documentation of the isolated barrier.



Terminal assignment of module in use has to be observed.

- when using 1- or 2-channel modules: full HART support

- when using 4-channel modules: HART support only with channels 1 and 2 for each module



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).