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

Assembly

Function

This Termination Board has 8 plug-in slots. Any HiC 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 field side connection and for the control side connection along with a plug-in HART connector for interconnection to a separate HART Communication Board.
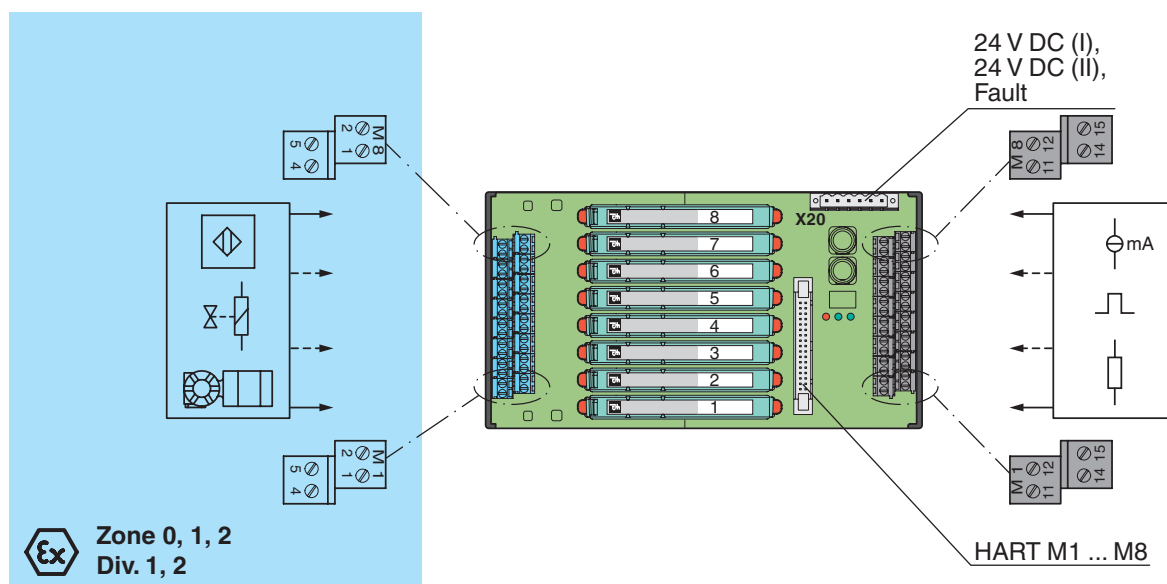
Information about missing supply voltage of the interface modules is available for the system as volt-free contact at the redundant power supply terminals. Wiring errors from field will be reported via the same relay contact if the interface module supports this function.

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.

Connection

Zone 0, 1, 2
Div. 1, 2

24 V DC (I),
24 V DC (II),
Fault

HART M1 ... M8

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

PEPPERL+FUCHS
PROTECTING YOUR PROCESS

Supply		
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		$\leq$ 10 %
Fusing		2 A , in each case for 8 modules
Power loss		$\leq$ 500 mW , without modules
Reverse polarity protection		yes
Redundancy		
Supply		Redundancy available. The supply for the modules is decoupled, monitored and fused.
Error message output		
Connection		X20: terminals 1, 2
Output type		volt-free contact
Contact loading		30 V DC, 1 A
Indicators/settings		
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
Directive conformity		
Electromagnetic compatibility		
Directive 2004/108/EC		EN 61326-1:2013
Conformity		
Electromagnetic compatibility		NE 21:2011 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		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^2 (24 ... 12 AWG)
Material		housing: polycarbonate, 10 % glass fiber reinforced
Mass		approx. 450 g
Dimensions		108 x 200 x 163 mm (4.25 x 7.9 x 6.42 in) , height including module assembly
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with Ex-areas		
EC-Type Examination Certificate		CESI 06 ATEX 022 , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		⟨Ex⟩ II (1)G [Ex ia Ga] IIC ⟨Ex⟩ II (1)D [Ex ia Da] IIIC ⟨Ex⟩ I (M1) [Ex ia Ma] I
Safe area		
Maximum safe voltage		250 V (Attention! U_m is no rated voltage.)
Electrical isolation		
Field circuit/control circuit		safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Directive conformity		
Directive 94/9/EC		EN 60079-0:2012, EN 60079-11:2012, EN 60079-26:2007 , EN 50303:2000
International approvals		
UL approval		
Control drawing		116-0327
IECEx approval		IECEx CES 06.0003
Approved for		[Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Ma] I
General information		
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 www.pepperl-fuchs.com.
Accessories		

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

Pepperl+Fuchs Group | USA: +1 330 486 0002 | Germany: +49 621 776 2222 | Singapore: +65 6779 9091
www.pepperl-fuchs.com | pa-info@us.pepperl-fuchs.com | pa-info@de.pepperl-fuchs.com | pa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS
PROTECTING YOUR PROCESS

2

Designation	optional accessories: - HART Communication Board HiATB01-HART-2X16 - HART Multiplexer Master HiDMux2700 - HART connection cable HiACA-UNI-FLK34-*M* - Label Carrier HiALC-Hi*TB-SET-1**

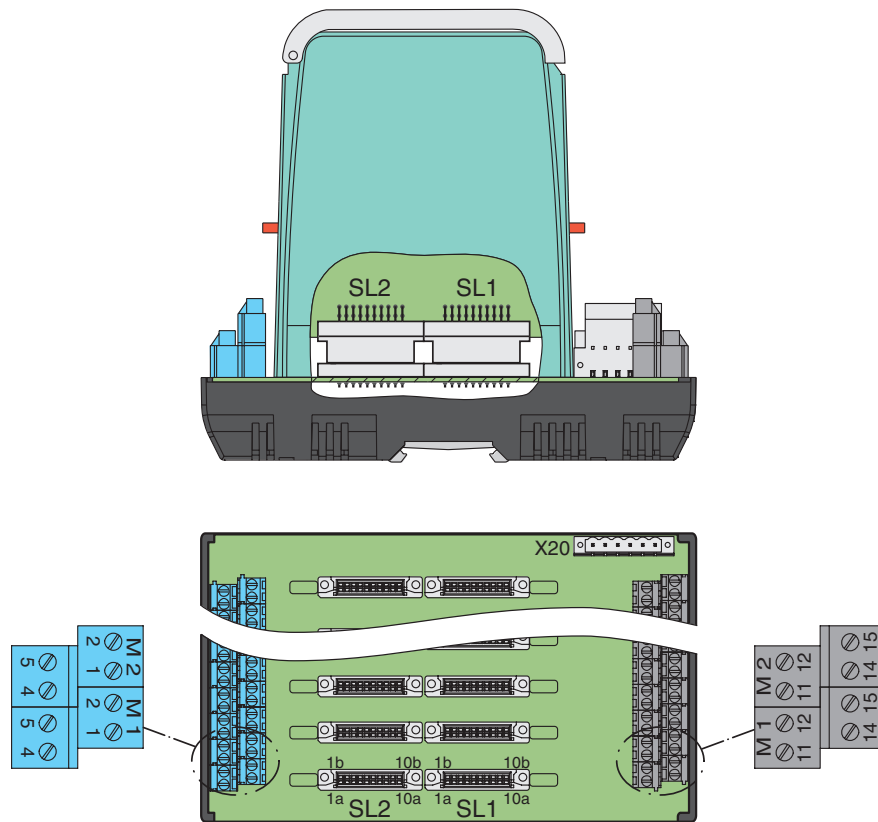Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0002
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
pa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS
PROTECTING YOUR PROCESS

3

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.

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

Release date 2015-03-31 16:11   Date of issue 2015-03-31   256886_eng.xml

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

Pepperl+Fuchs Group   USA: +1 330 486 0002   Germany: +49 621 776 2222   Singapore: +65 6779 9091
www.pepperl-fuchs.com   pa-info@us.pepperl-fuchs.com   pa-info@de.pepperl-fuchs.com   pa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS
PROTECTING YOUR PROCESS

4

Application

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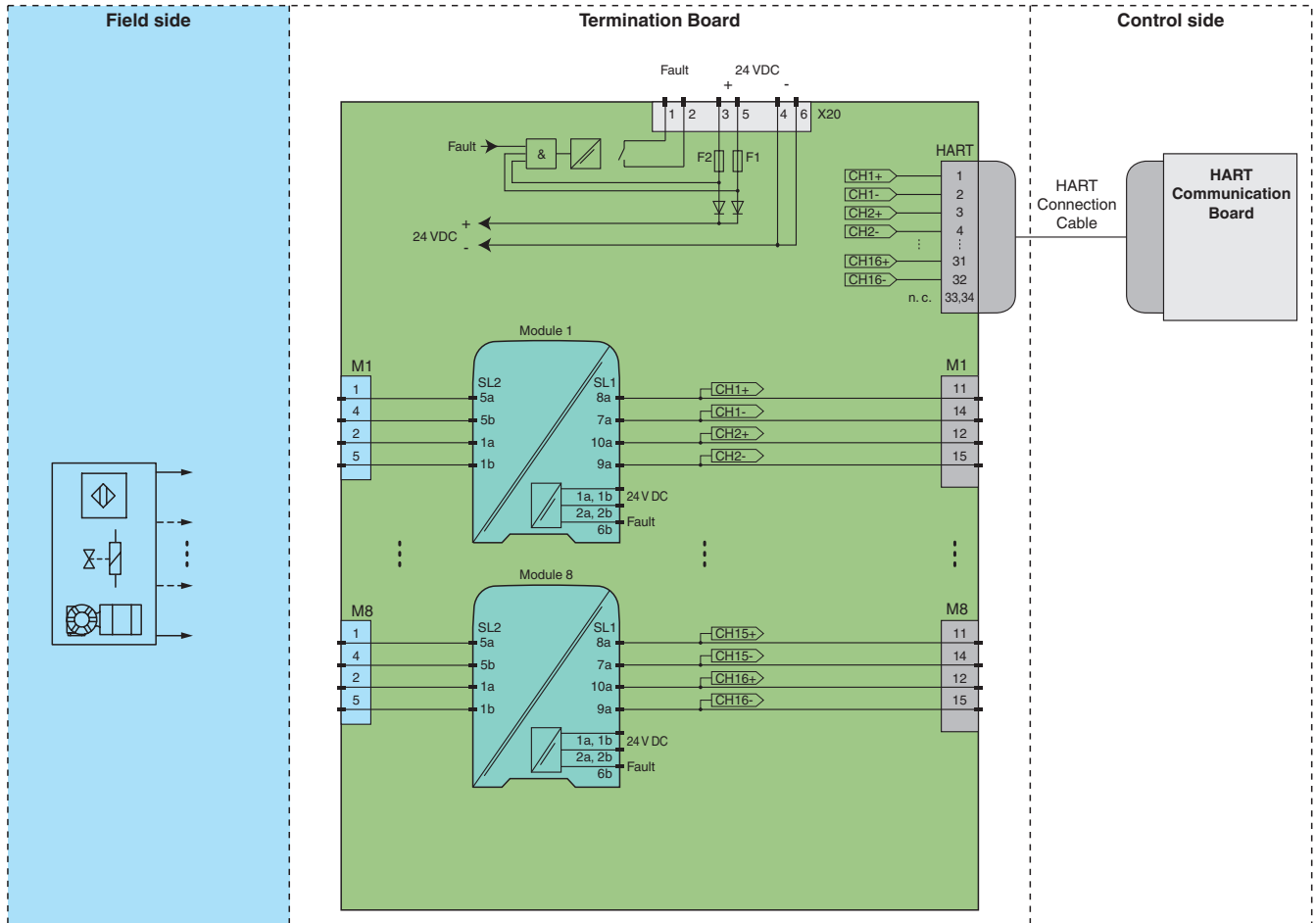
⚠ *For exact pin assignment for connection to field side and control side, see the documentation of the isolated barrier.*

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

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

Pepperl+Fuchs Group   USA: +1 330 486 0002   Germany: +49 621 776 2222   Singapore: +65 6779 9091
www.pepperl-fuchs.com   pa-info@us.pepperl-fuchs.com   pa-info@de.pepperl-fuchs.com   pa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS
PROTECTING YOUR PROCESS   **5**