Features

- For 8 modules
- 24 V DC supply
- Universal use
- Hazardous area: screw terminals, blue
- Safe area: Sub-D connector (male), 37-pin

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 a 37-pin Sub-D connector for the safe area along with a plug-in HART connector for interconnection to a separate HART Communication Board.
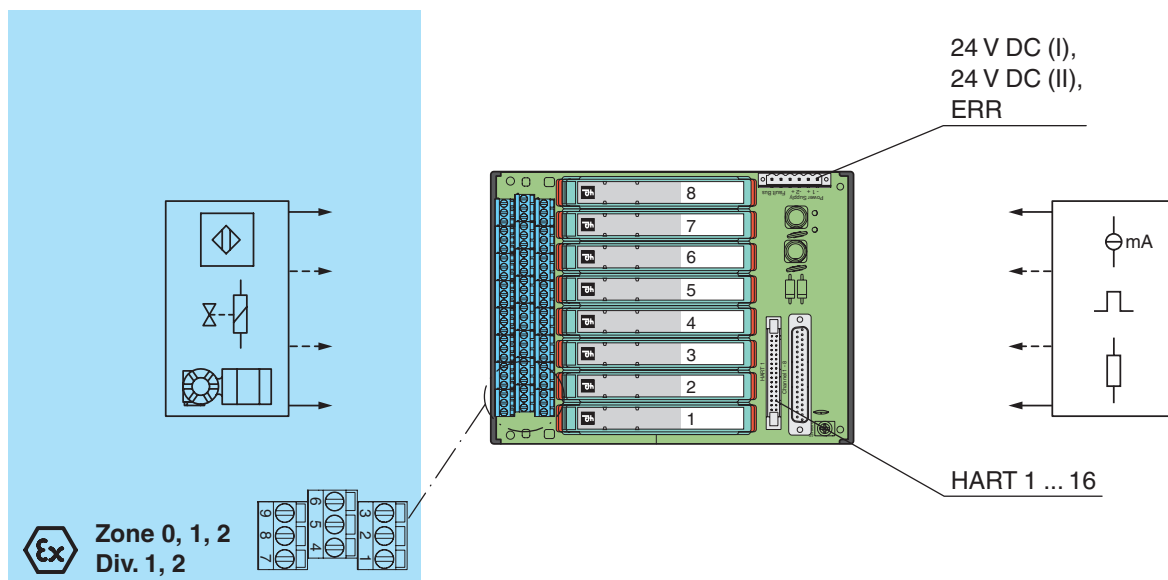
The Termination Board has a fault bus that is available at the redundant power supply terminals. The fault bus can be daisy chained and monitored by the optional Fault Indication Board. The fault bus signals are then available to the control system as a potential-free contact.

Termination Boards are supplied with a rugged fiberglass reinforced plastic housing. This design permits a fast and reliable installation in the marshalling cabinet.

Assembly

Connection

Zone 0, 1, 2
Div. 1, 2

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

mA

HART 1 ... 16

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Supply	
Rated voltage	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 loss	≤ 500 mW , without modules
Reverse polarity protection	yes
Redundancy	
Supply	Redundancy available. The supply for the modules is decoupled, monitored and fused.
Electrical isolation	
Input/input	functional insulation, rated insulation voltage 50 V AC
Output/Output	functional insulation, rated insulation voltage 50 V AC
Other circuits from each other	functional insulation, rated insulation voltage 50 V AC
Indicators/settings	
Display elements	LEDs PWR ON (power supply) - LED power supply I, green LED - LED power supply II, green LED
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): 37-pin Sub-D connector (male)
Material	housing: polycarbonate, 30 % glass fiber reinforced
Mass	approx. 600 g
Dimensions	150 x 200 x 163 mm (5.9 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 11 ATEX 062 , 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	
CSA approval	
Control drawing	see control drawing of correspoding modules
IECEx approval	IECEx CES 11.0022
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	
Designation	optional accessories: - Fault Indication Board HiATB01-FAULT-01 - 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".

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2

Connections

Module position SL1	Channel	Termination Board		
			Screw terminal KS	Sub-D male X1
1	Ch 1+	1	11	37
	Ch 1-		14	19
	Ch 2+		12	36
	Ch 2-		15	18
2	Ch 3+	2	11	35
	Ch 3-		14	17
	Ch 4+		12	34
	Ch 4-		15	16
3	Ch 5+	3	11	33
	Ch 5-		14	15
	Ch 6+		12	32
	Ch 6-		15	14
4	Ch 7+	4	11	31
	Ch 7-		14	13
	Ch 8+		12	30
	Ch 8-		15	12
5	Ch 9+	5	11	29
	Ch 9-		14	11
	Ch 10+		12	28
	Ch 10-		15	10
6	Ch 11+	6	11	27
	Ch 11-		14	9
	Ch 12+		12	26
	Ch 12-		15	8
7	Ch 13+	7	11	25
	Ch 13-		14	7
	Ch 14+		12	24
	Ch 14-		15	6
8	Ch 15+	8	11	23
	Ch 15-		14	5
	Ch 16+		12	22
	Ch 16-		15	4
	Shield			21
	0 V Gnd			20
	+24 V DC			1
	Cable presence			
	NC			3, 2

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

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