Features

- For 16 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 16 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 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.

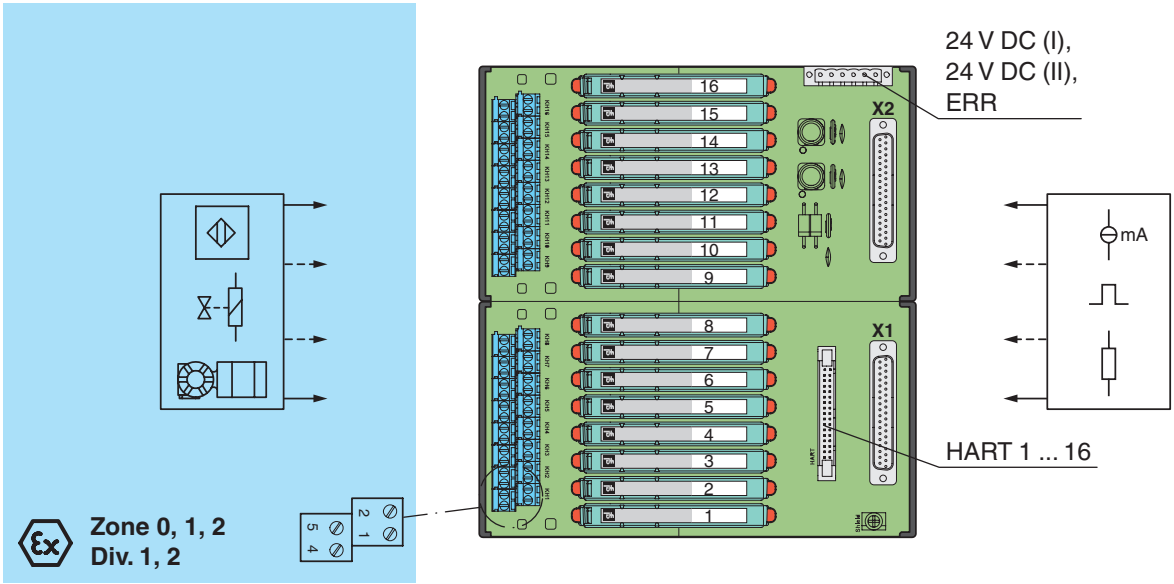
Application

System connector X1 is linked to module terminals 11 and 14 (output 1) of module 1 ... 16.

System connector X2 is linked to module terminals 12 and 15 (output 2) of module 1 ... 16.

Assembly

Connection



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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	4 A , in each case for 16 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.
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. 840 g
Dimensions	216 x 200 x 163 mm (8.5 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	
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**

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Connections

Module position SL1	Channel	Termination Board			
		Screw terminal		Sub-D male	
		KS		X1	X2
1	Ch 1+	1	11	37	
	Ch 1-		14	19	
	Ch 2+		12		37
	Ch 2-		15		19
2	Ch 3+	2	11	36	
	Ch 3-		14	18	
	Ch 4+		12		36
	Ch 4-		15		18
3	Ch 5+	3	11	35	
	Ch 5-		14	17	
	Ch 6+		12		35
	Ch 6-		15		17
4	Ch 7+	4	11	34	
	Ch 7-		14	16	
	Ch 8+		12		34
	Ch 8-		15		16
5	Ch 9+	5	11	33	
	Ch 9-		14	15	
	Ch 10+		12		33
	Ch 10-		15		15
6	Ch 11+	6	11	32	
	Ch 11-		14	14	
	Ch 12+		12		32
	Ch 12-		15		14
7	Ch 13+	7	11	31	
	Ch 13-		14	13	
	Ch 14+		12		31
	Ch 14-		15		13
8	Ch 15+	8	11	30	
	Ch 15-		14	12	
	Ch 16+		12		30
	Ch 16-		15		12
	Shield			21	
	0 V Gnd			20	
	+24 V DC			1	
	Cable presence				
	NC			3, 2	

Module position SL1	Channel	Termination Board			
		Screw terminal		Sub-D male	
		KS		X1	X2
9	Ch 17+	9	11	29	
	Ch 17-		14	11	
	Ch 18+		12		29
	Ch 18-		15		11
10	Ch 19+	10	11	28	
	Ch 19-		14	10	
	Ch 20+		12		28
	Ch 20-		15		10
11	Ch 21+	11	11	27	
	Ch 21-		14	9	
	Ch 22+		12		27
	Ch 22-		15		9
12	Ch 23+	12	11	26	
	Ch 23-		14	8	
	Ch 24+		12		26
	Ch 24-		15		8
13	Ch 25+	13	11	25	
	Ch 25-		14	7	
	Ch 26+		12		25
	Ch 26-		15		7
14	Ch 27+	14	11	24	
	Ch 27-		14	6	
	Ch 28+		12		24
	Ch 28-		15		6
15	Ch 29+	15	11	23	
	Ch 29-		14	5	
	Ch 30+		12		23
	Ch 30-		15		5
16	Ch 31+	16	11	22	
	Ch 31-		14	4	
	Ch 32+		12		22
	Ch 32-		15		4
	Shield			21	
	0 V Gnd			20	
	+24 V DC			1	
	Cable presence				
	NC			3, 2	

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