

Features

- System board for Honeywell Universal Safety IO
- System board for Honeywell Universal Process IO
- For 16-channel cards USIO and UPIO
- For 16 modules
- Recommended modules: HiC2831R2 (DI), HiC2853R2 (DI), HiC2871 (DO), HiC2025 (AI), HiC2031 (AO)
- Recommended system cable: CA-HWC300-AIO-DIO-*M
- 24 V DC supply
- Hazardous area: pluggable screw terminals, blue
- Safe area: Sub-D connector (male), 37-pin

Function

The function of the Termination Board and the connector pin assignment is exactly fitted to the requirements of Honeywell system.

Information about missing supply voltage of the isolated barriers is available for the system as volt-free contact.

It is possible to transfer a fault signal to channel 1 of the card via the Loop-in function.

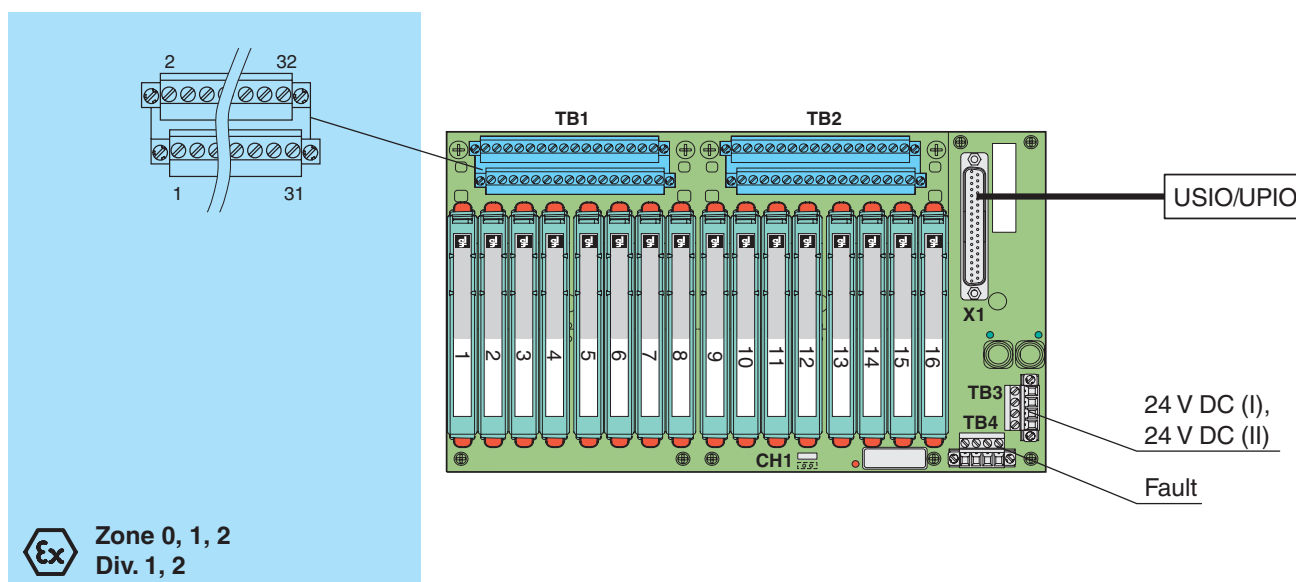
The Termination Board has a robust glass fiber reinforced plastic housing.

The Termination Board is mounted in the switch cabinet on a 35 mm DIN mounting rail according to EN 60175.

Assembly



Connection



Release date 2016-10-27 10:48 Date of issue 2016-10-27 232114_eng.xml

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

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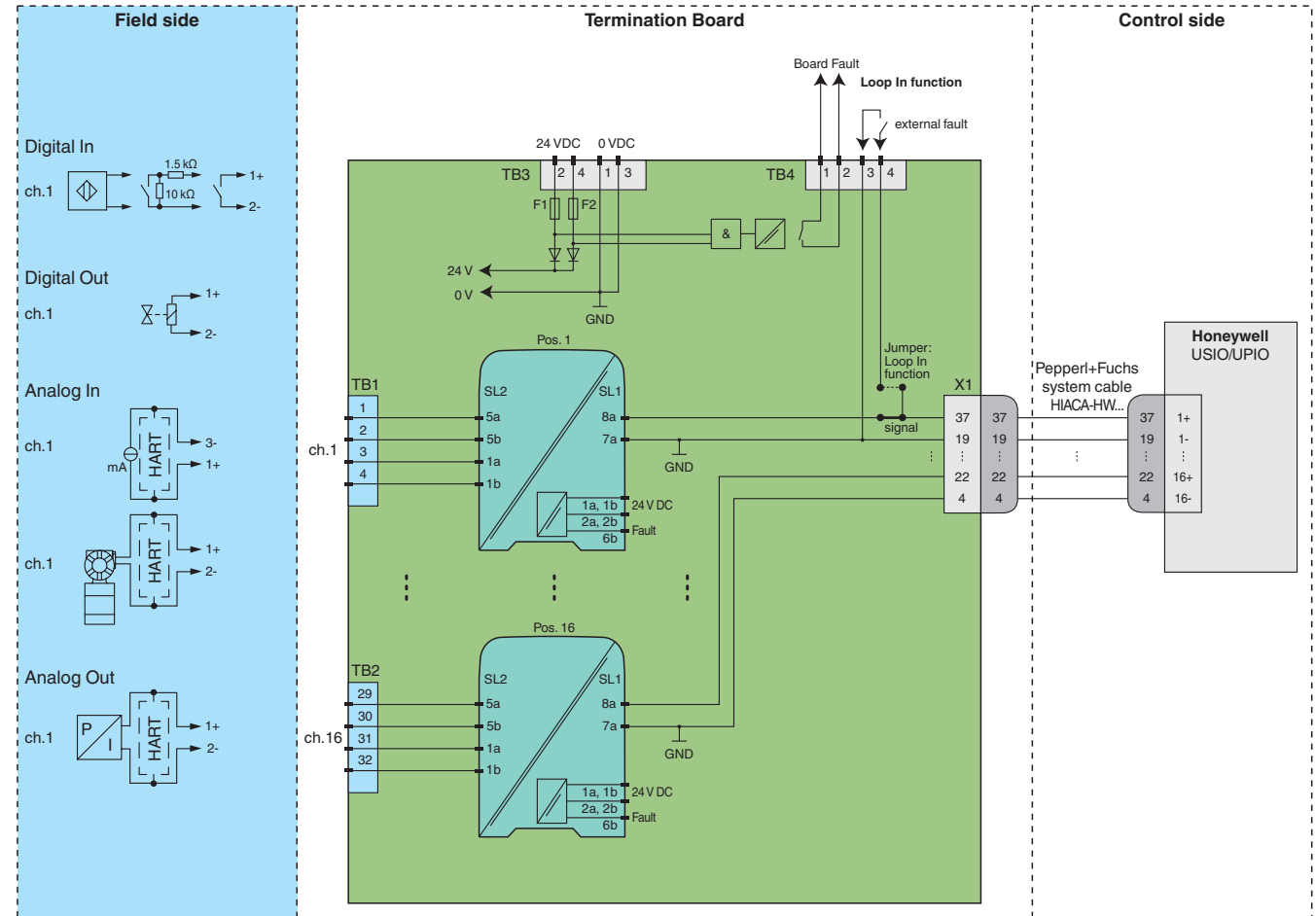
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Supply	
Connection	terminal block TB3 (1-, 2+; 3-, 4+)
Rated voltage U_r	24 V DC , in consideration of rated voltage of used isolated barriers
Voltage drop	0.9 V , voltage drop across the series diode on the termination board must be considered
Ripple	≤ 10 %
Fusing	4 A
Power dissipation	≤ 500 mW , without modules
Reverse polarity protection	yes
Electrical specifications	
Volt-free fault indication output	max. 30 V AC/40 V DC, 2 A
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 LED Fault (fault indication), red LED
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
Conformity	
Electromagnetic compatibility	NE 21:2012 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): pluggable screw terminals, blue safe area connection (control side): 37-pin Sub-D connector (male)
Core cross-section	0.2 ... 2.5 mm ² (24 ... 12 AWG)
Material	housing: polycarbonate, 30 % glass fiber reinforced
Mass	approx. 900 g
Dimensions	273 x 155 x 153 mm (L x W x H) , height including module assembly
Mounting	on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazardous areas	
EC-Type Examination Certificate	CESI 06 ATEX 022
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
Safe area	
Maximum safe voltage	250 V (Attention! U_m is no rated voltage.)
Galvanic isolation	
Field circuit/control circuit	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , 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	provided accessory: Label Carrier HiALC-HI*TF-SET-1** optional accessories: system cable CA-HWC300-AIO-DIO-*M

Release date 2016-10-27 10:48 Date of issue 2016-10-27 232114_eng.xml

Application

Typical loop



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Pin-out Table

Termination Board field side			Modules		Termination Board control side
Module	Channel	IS Terminal TB1	IS terminals SL2 field side	Non-IS terminals SL1 control side	System connector X1
1	1	1	5a	8a	37
		2	5b		
		3	1a	7a	19
		4	1b		
2	2	5	5a	8a	36
		6	5b		
		7	1a	7a	18
		8	1b		
3	3	9	5a	8a	35
		10	5b		
		11	1a	7a	17
		12	1b		
4	4	13	5a	8a	34
		14	5b		
		15	1a	7a	16
		16	1b		
5	5	17	5a	8a	33
		18	5b		
		19	1a	7a	15
		20	1b		
6	6	21	5a	8a	32
		22	5b		
		23	1a	7a	14
		24	1b		
7	7	25	5a	8a	31
		26	5b		
		27	1a	7a	13
		28	1b		
8	8	29	5a	8a	30
		30	5b		
		31	1a	7a	12
		32	1b		

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Pin-out Table

Termination Board field side			Modules		Termination Board control side
Module	Channel	IS Terminal TB2	IS terminals SL2 field side	Non-IS terminals SL1 control side	System connector X1
9	9	1	5a	8a	29
		2	5b		
		3	1a	7a	11
		4	1b		
10	10	5	5a	8a	28
		6	5b		
		7	1a	7a	10
		8	1b		
11	11	9	5a	8a	27
		10	5b		
		11	1a	7a	9
		12	1b		
12	12	13	5a	8a	26
		14	5b		
		15	1a	7a	8
		16	1b		
13	13	17	5a	8a	25
		18	5b		
		19	1a	7a	7
		20	1b		
14	14	21	5a	8a	24
		22	5b		
		23	1a	7a	6
		24	1b		
15	15	25	5a	8a	23
		26	5b		
		27	1a	7a	5
		28	1b		
16	16	29	5a	8a	22
		30	5b		
		31	1a	7a	4
		32	1b		

Termination Board pin out			
Power supply	TB3	1	Supply I -
		2	Supply I +
		3	Supply II -
		4	Supply II +
Fault	TB4	1	Board fault
		2	
		3	External fault
		4	

Module pin-out (SL1): module 1 ... 16	
V _{cc}	2a
	2b
GND	1a
	1b
	7a
FAULT	6b

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