

Features

- System board for Honeywell Experion PKS, Series C
- For 16-/32-channel cards CC-TDIL01/11, CC-TDOB01/11, CC-TAIX01/11 and CC-TAOX01/11
- For 16 modules
- Recommended modules: HiC2821 (DI), HiC2871 (DO), HiC2025 (AI), HiC2031 (AO)
- Recommended system cable: CAB-HON-**-S37C32-MX-01000
- 24 V DC supply
- Hazardous area: pluggable screw terminals, blue
- Non-hazardous 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 a missing supply voltage of the isolators is available for the system as a volt-free contact.

Wiring faults from the field side will be reported via the same relay contact, if this function is supported by the isolators.

The termination board is supplied with a robust plastic housing. This design permits the fast and reliable installation on 35 mm DIN mounting rail according to EN 60715 in the switch cabinet.

Application

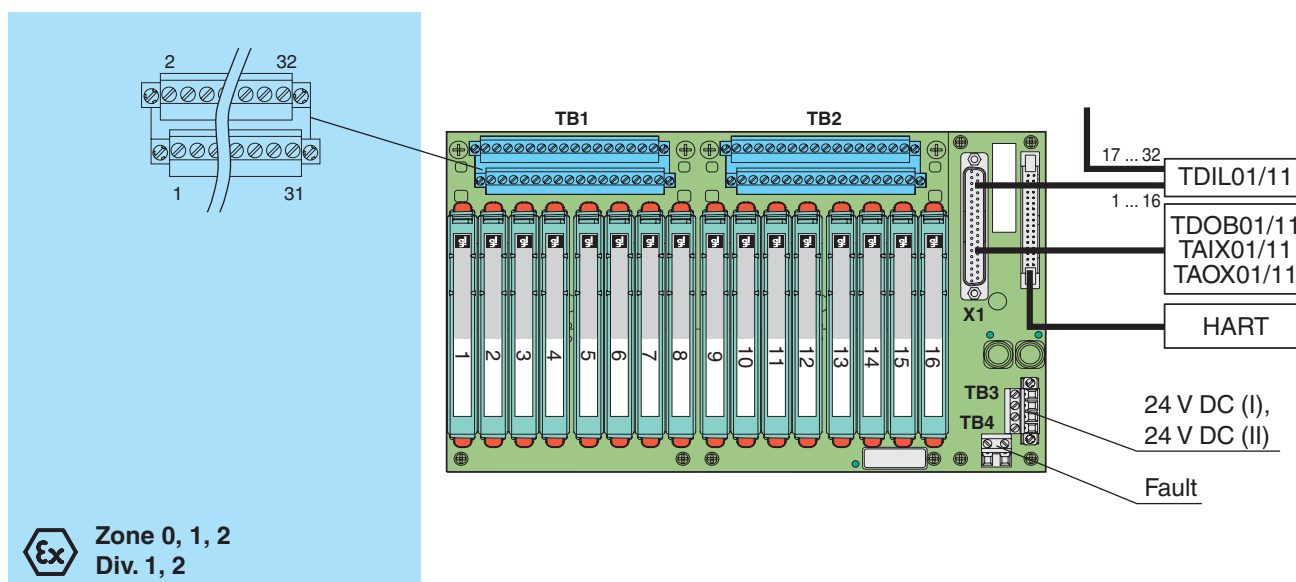
For digital cards 2 termination boards and 2 system cables are required.

- Board 1 and cable 1: channel 1 ... 16
- Board 2 and cable 2: channel 17 ... 32

Assembly



Connection



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

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Supply	
Connection	terminal block TB3 (1-, 2+; 3-, 4+)
Nominal voltage	24 V DC , in consideration of rated voltage of used isolators
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
Redundancy	
Supply	Redundancy available. The supply for the isolators is decoupled, monitored and fused.
Fault indication output	
Output type	volt-free contact
Contact loading	30 V DC , 1 A
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), green LED
Directive conformity	
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
Conformity	
Electromagnetic compatibility	NE 21:2017 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	
Field side	explosion hazardous area: pluggable screw terminals , blue
Control side	non-explosion hazardous area: 37-pin Sub-D connector
Supply	pluggable screw terminals , black
Fault output	pluggable screw terminals , black
Core cross-section	screw terminals: 0.25 ... 2.5 mm ² (24 ... 12 AWG)
Material	housing: polycarbonate
Mass	approx. 825 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	
EU-Type Examination Certificate	CESI 06 ATEX 022
Marking	⊕ II (1)G [Ex ia Ga] IIC ⊕ II (1)D [Ex ia Da] IIIC ⊕ I (M1) [Ex ia Ma] I
Non-hazardous area	
Maximum safe voltage	250 V (Attention! U _m is no rated voltage.)
Certificate	DEMKO 18 ATEX 2116 X
Marking	⊕ II 3G Ex ec nC IIC T4 Gc
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 60079-7:2015 , EN 60079-11:2012 , IEC 60079-15:2017 , EN 50303:2000
International approvals	
UL approval	
Control drawing	116-0327
IECEX approval	
IECEX certificate	IECEX CES 06.0003 IECEX UL 18.0111 X
IECEX marking	[Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Ma] I Ex ec nC IIC T4 Gc
General information	

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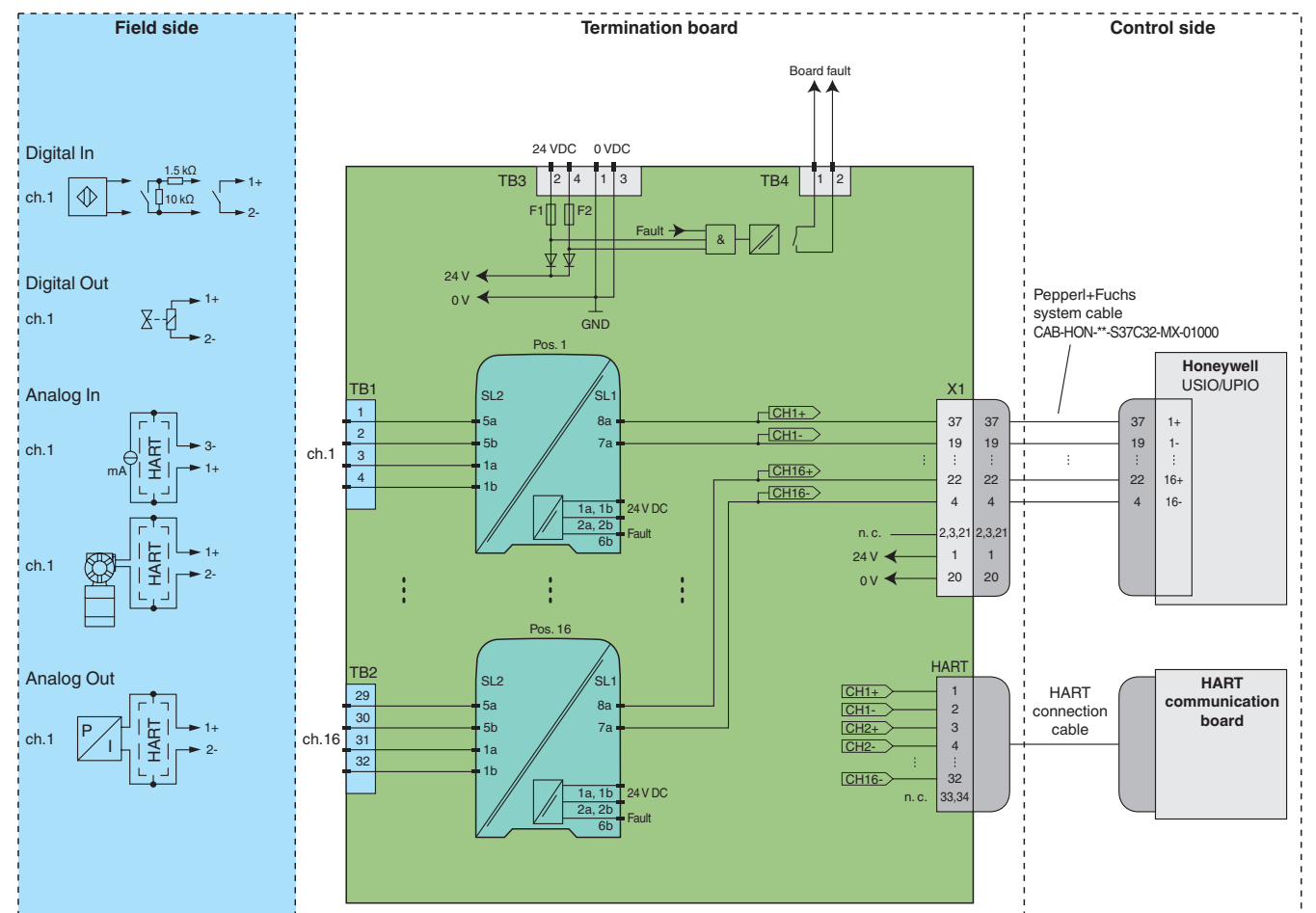
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .
Accessories	
Designation	<p>provided accessory: Label Carrier HiALC-HI*TF-SET-1**</p> <p>optional accessories:</p> <ul style="list-style-type: none"> - system cable CAB-HON**-S37C32-MX-01000 - HART communication board HiATB01-HART-2X16 - HART multiplexer master HiDMux2700 - HART connection cable HiACA-UNI-FLK34-*M*

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Application

Typical loop



Module switch settings

Type (AI)	DIP switch	Position
HiC2025 (current sink)	S1	OFF
	S2	ON
	S3	OFF
	S4	OFF

Type (AO)	DIP switch	Position
HiC2031	S1	ON
	S2	ON
	S3	OFF
	S4	OFF

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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 +
Volt-free fault indication output	TB4	1	Fault
		2	

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

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