

## 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: 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 Termination Board has 16 plug-in slots.

The function of the Termination Board as well as the connector pin assignment exactly fit the requirement of Honeywell systems.

Information about missing supply voltage of the interface modules is available for the system as potential free relay contact. Wiring errors from field will be reported if the interface module supports this function.

The Termination Boards are supplied with a robust glass fibre reinforced plastic housing as standard. This design permits the fast and reliable installation 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

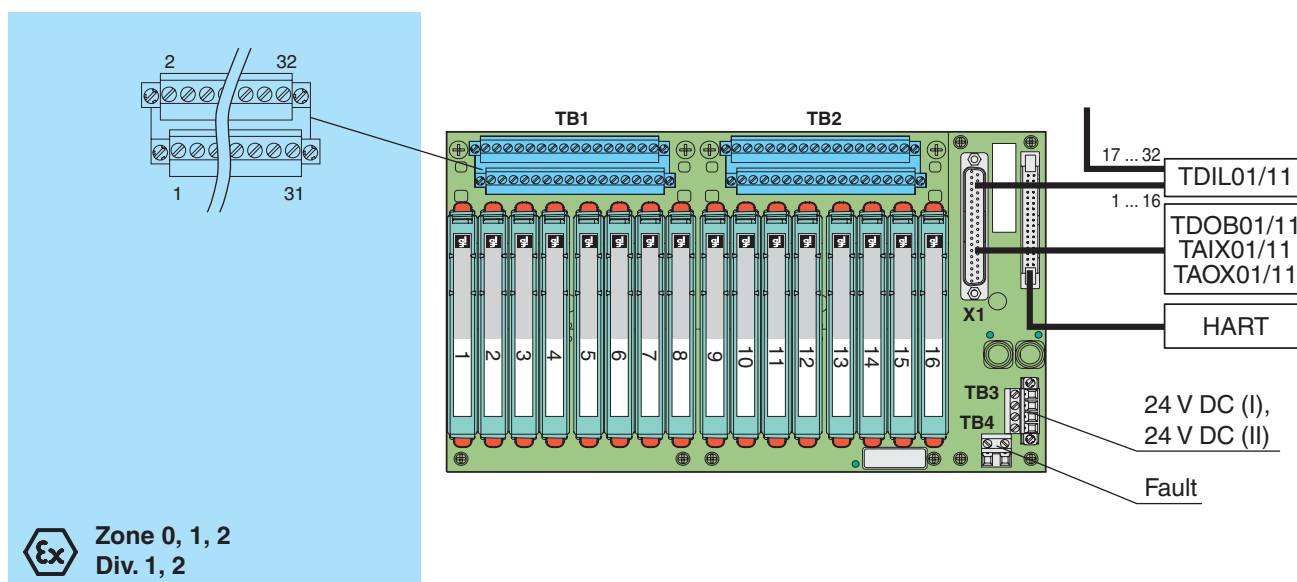
Please note the operation modes below:

- HiC2025: current sink mode (sink output 4 mA ... 20 mA)

## Assembly



## Connection



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

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<b>Supply</b>	
Connection	terminal block TB3 (1-, 2+; 3-, 4+)
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	≤ 10 %
Fusing	4 A
Power dissipation	≤ 500 mW , without modules
Reverse polarity protection	yes
<b>Electrical specifications</b>	
volt-free fault indication output	max. 30 V AC/40 V DC, 2 A
<b>Redundancy</b>	
Supply	Redundancy available. The supply for the modules is decoupled, monitored and fused.
<b>Indicators/settings</b>	
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
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
<b>Conformity</b>	
Electromagnetic compatibility	NE 21:2012 For further information see system description.
Degree of protection	IEC 60529:2001
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
<b>Mechanical specifications</b>	
Degree of protection	IP20
Connection	hazardous area connection (field side): plugable screw terminals, blue safe area connection (control side): 37-pin Sub-D connector (male)
Core cross-section	0.2 ... 2.5 mm <sup>2</sup> (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
<b>Data for application in connection with Ex-areas</b>	
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
<b>Safe area</b>	
Maximum safe voltage	250 V (Attention! $U_m$ is no rated voltage.)
<b>Electrical isolation</b>	
Field circuit/control circuit	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
<b>Directive conformity</b>	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 50303:2000
<b>International approvals</b>	
<b>UL approval</b>	
Control drawing	116-0327
<b>IECEX approval</b>	
Approved for	[Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Ma] I
<b>General information</b>	
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 <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .
<b>Accessories</b>	
Designation	provided accessories: Label Carrier HiALC-HI*TF-SET-1** optional accessories: system cable CA-HWC300-AIO-DIO-*M

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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 <sub>cc</sub>	2a
	2b
GND	1a
	1b
FAULT	6b

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