

## Features

- System Board for Honeywell Experion PKS, Series C
- For 32-channel card CC-TDOB01/11
- For 16 modules
- Recommended module: HiD2874 (DO)
- 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.

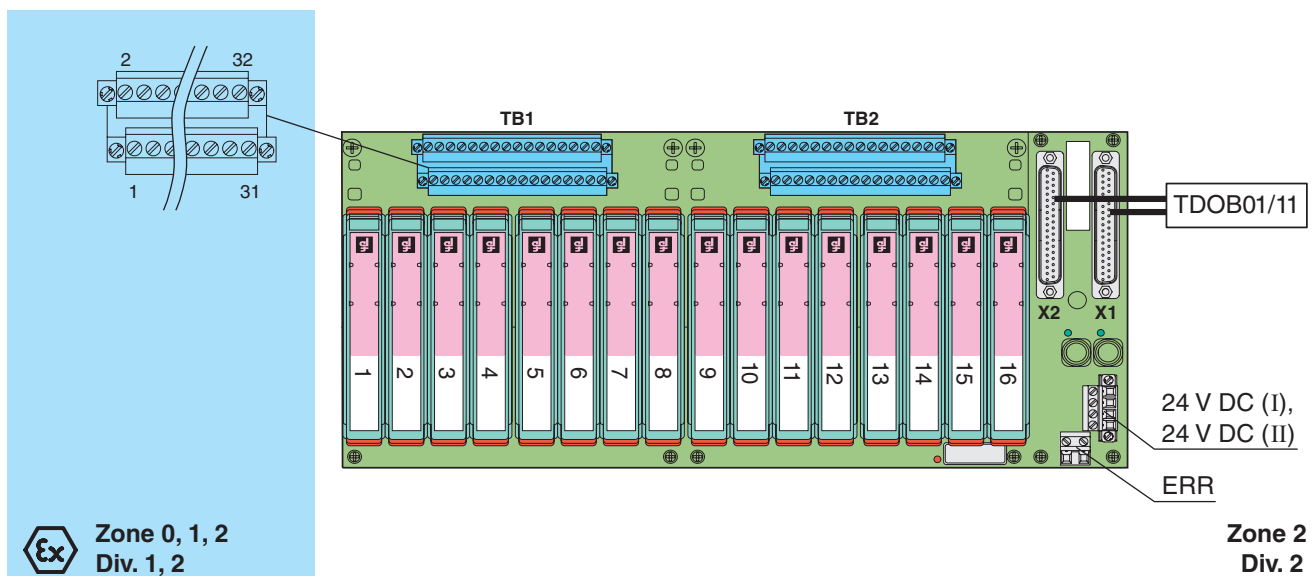
The Termination Boards are supplied with a robust glass fibre reinforced plastic housing as standard. This design permits the fast and reliable installation in the switch cabinet.

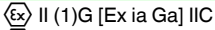
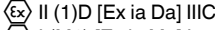
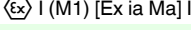
## Application

2 system cables are required.



## Connection



<b>Supply</b>	
Connection	terminal block TB3 (1-, 2+; 3-, 4+)
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
Power loss	≤ 500 mW , without modules
Reverse polarity protected	yes
<b>Redundancy</b>	
Supply	Redundancy available. The supply for the modules is decoupled, monitored and fused.
<b>Output</b>	
Connection	terminal block TB4 (1, 2), error message output, NO contact
Fault signal	max. 30 V AC/40 V DC, 2 A
<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), red LED
<b>Directive conformity</b>	
Electromagnetic compatibility Directive 2004/108/EC	EN 61326-1:2006
<b>Conformity</b>	
Electromagnetic compatibility	NE 21:2006
Protection degree	IEC 60529
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
<b>Mechanical specifications</b>	
Protection degree	IP20
Connection	hazardous area connection (field side): plugable screw terminals, blue safe area connection (control side): 37-pin Sub-D connector (male)
Material	housing: polycarbonate, 30 % fiberglass reinforced
Mass	approx. 1000 g
Dimensions	357 x 155 x 153 mm (L x W x H) , height including module assembly
Mounting	on 35 mm DIN mounting rail acc. to DIN EN 60715
<b>Data for application in connection with Ex-areas</b>	
EC-Type Examination Certificate Group, category, type of protection	CESI 11 ATEX 062 , for additional certificates see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a>   
<b>Safe area</b>	
Maximum safe voltage	250 V (Attention! U <sub>m</sub> is no rated voltage.)
<b>Electrical isolation</b>	
Field circuit/control circuit	safe galvanic isolation acc. to IEC 60079-11, voltage peak value 375 V
<b>Directive conformity</b>	
Directive 94/9/EC	EN 60079-0:2009, EN 60079-11:2007, EN 60079-26:2007 , EN 61241-11:2006 , EN 50303:2000
<b>International approvals</b>	
IECEx approval	IECEx CES 11.0022
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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**Configuration**

**pin-out-configuration**

Board IS-Term. TB1	Module IS Terminal	Board Position	Board Channel	Module Non-IS Terminal	System connector X1
1	1	1	1	11	37
2	4			14	19
3	2		2	12	36
4	5			15	18
5	1	2	3	11	35
6	4			14	17
7	2		4	12	34
8	5			15	16
9	1	3	5	11	33
10	4			14	15
11	2		6	12	32
12	5			15	14
13	1	4	7	11	31
14	4			14	13
15	2		8	12	30
16	5			15	12
17	1	5	9	11	29
18	4			14	11
19	2		10	12	28
20	5			15	10
21	1	6	11	11	27
22	4			14	9
23	2		12	12	26
24	5			15	8
25	1	7	13	11	25
26	4			14	7
27	2		14	12	24
28	5			15	6
29	1	8	15	11	23
30	4			14	5
31	2		16	12	22
32	5			15	4

Board IS-Term. TB2	Module IS Terminal	Board Position	Board Channel	Module Non-IS Terminal	System connector X2
1	1	9	17	11	37
2	4			14	19
3	2		18	12	36
4	5			15	18
5	1	10	19	11	35
6	4			14	17
7	2		20	12	34
8	5			15	16
9	1	11	21	11	33
10	4			14	15
11	2		22	12	32
12	5			15	14
13	1	12	23	11	31
14	4			14	13
15	2		24	12	30
16	5			15	12
17	1	13	25	11	29
18	4			14	11
19	2		26	12	28
20	5			15	10
21	1	14	27	11	27
22	4			14	9
23	2		28	12	26
24	5			15	8
25	1	15	29	11	25
26	4			14	7
27	2		30	12	24
28	5			15	6
29	1	16	31	11	23
30	4			14	5
31	2		32	12	22
32	5			15	4