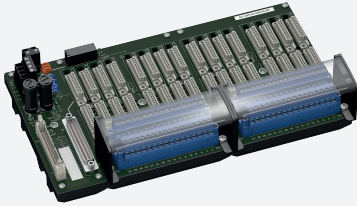


Termination Board

SC-GPCS-UNI16-PF



- System board for Honeywell Experion PKS, Series C
- For 16-channel AI card CC-TAIX01/11
- For 16-channel AO card CC-TAOX01/11
- For 32-channel DI card CC-TDIL01/11
- For 32-channel DO card CC-TDOB01/11
- For 16 modules
- Recommended modules: HiC2025(A) (AI), HiC2031 (AO), HiC2821 (DI), HiC2871 (DO)
- 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



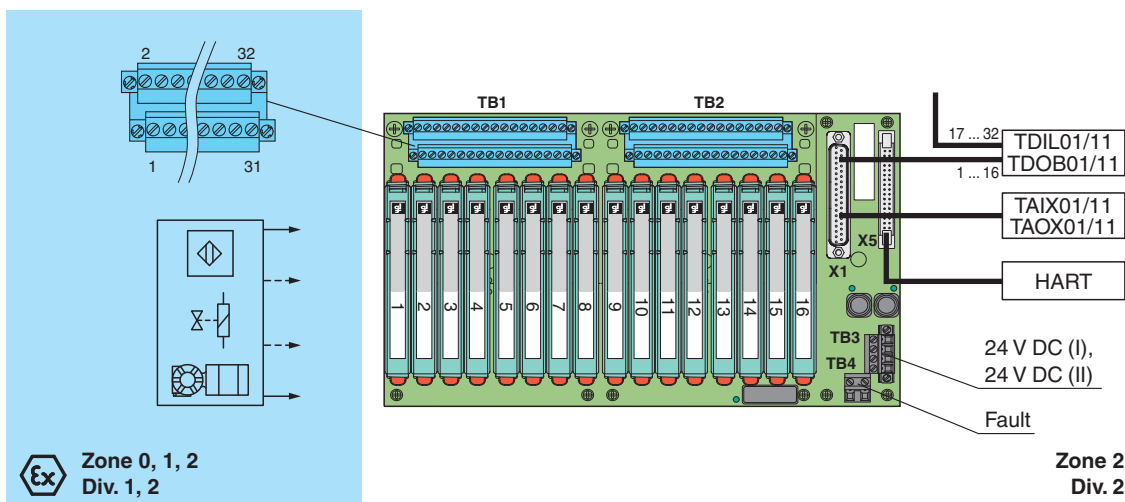
Function

The function of the termination board and the connector pin assignment are exactly fitted to the requirements of the Honeywell system. The signal is output to the process control system via the system connector. Information about a missing supply voltage of the isolated barriers 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 has a robust plastic housing. The termination board is mounted in the switch cabinet on a 35 mm DIN mounting rail according to EN 60175.

Application

- Honeywell card CC-TDIL01/11 and CC-TDOB01/11:
- Termination board 1 and cable 1: channel 1 ... 16
 - Termination board 2 and cable 2: channel 17 ... 32

Connection



Technical Data

Supply

Connection	TB3: terminals 2, 4(+); 1, 3(-)
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

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

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Technical Data

Ripple		≤ 10 %
Fusing		4 A , in each case for 16 modules
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		
Connection		TB4: terminals 1, 2
Output type		volt-free contact
Switch behaviour		no fault: relay contact closed power supply fault: relay contact open module fault: relay contact open
Contact loading		30 V DC , 1 A
Indicators/settings		
Display elements		LED Supply1 (power supply termination board), green LED LED Supply2 (power supply termination board), green LED LED Fault Status (fault indication), green LED - LED lits: no module fault/no power supply fault
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 (10.7 x 6.1 x 6.0 inch) (W x H x D) , depth 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 IEC 60079-0:2018+AC:2020 , EN 60079-7:2015+A1:2018 , EN 60079-11:2012 , EN 60079-15:2010 , EN 50303:2000
International approvals		
UL approval		E106378

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
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Technical Data

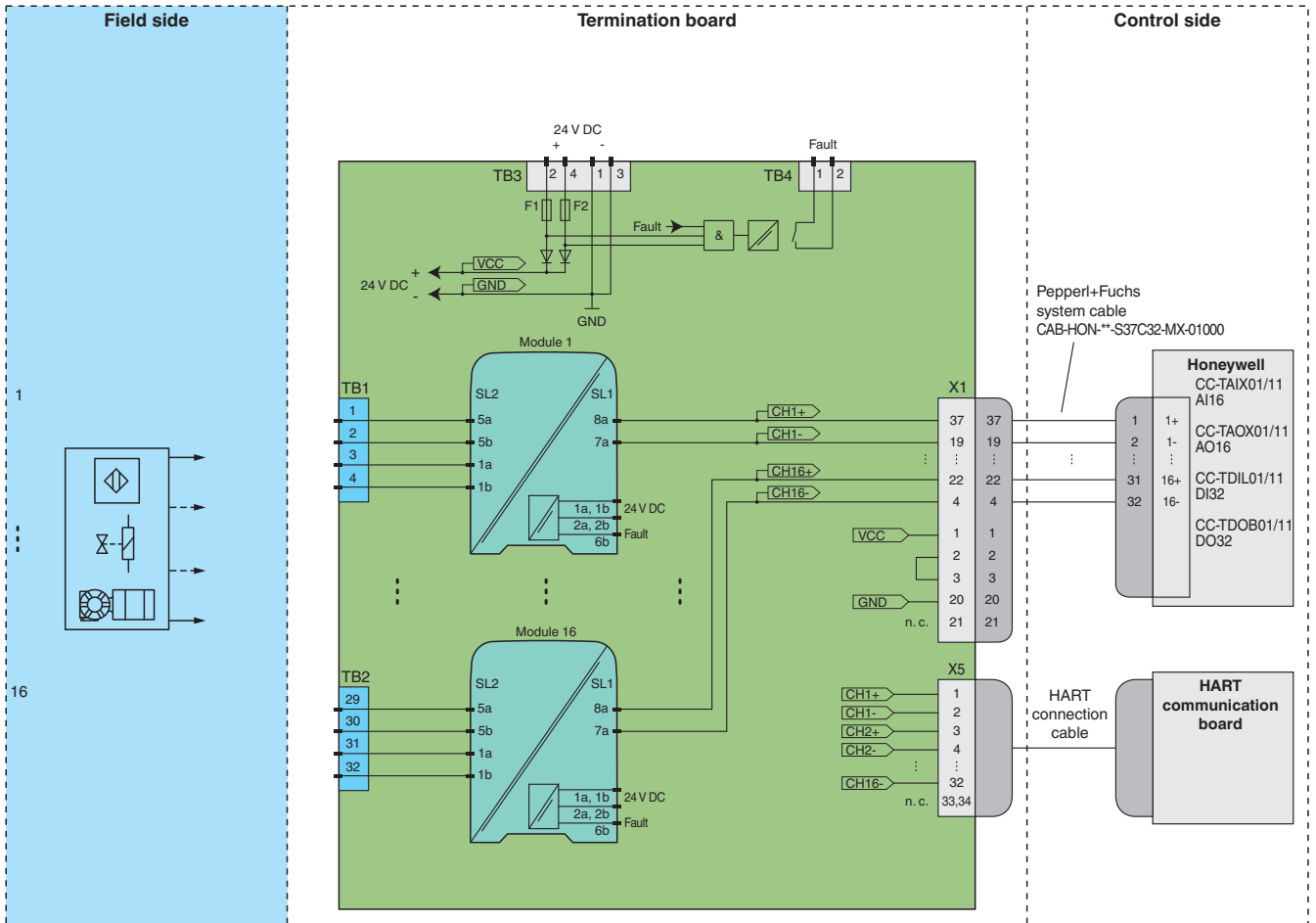
Control drawing	116-0327
IECEX approval	
IECEX certificate	IECEX CES 06.0003 IECEX UL 18.0111 X
IECEX marking	[Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Ma] I Ex ec nC IIC T4 Gc
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .

Accessories

	HiATB01-HART-2X16	HART Communication Board
	HiDMux2700	HART Multiplexer Master
	CAB-HON-**-S37C32-MX-01000	Cordset, 37-pin Sub-D socket to 37-pin Honeywell system socket, PVC cable
	HiACA-UNI-FLK34-FLK34-0M5	HART Connection Cable, length: 0,5 m
	HiACA-UNI-FLK34-FLK34-1M0	HART Connection Cable, length: 1 m
	HiACA-UNI-FLK34-FLK34-2M0	HART Connection Cable, length: 2 m
	HiACA-UNI-FLK34-FLK34-3M0	HART Connection Cable, length: 3 m
	HiACA-UNI-FLK34-FLK34-6M0	HART Connection Cable, length: 6 m
	HiALC-HICTF-SET-114	Label carrier for HiC termination boards

Application

Typical circuit



Module switch settings

Type (AI)	DIP switch	Position
HiC2025, HiC2025A (current sink 4 mA ... 20 mA)	S1	OFF
	S2	ON
	S3	OFF
	S4	OFF

Type (DI)	DIP switch	Position
HiC2821 • Mode of operation: close - energized open - de-energized • Input line fault detection: enabled	S1	II
	S2	I
	S3	no function
	S4	no function

Type (AO)	DIP switch	Position
HiC2031	not available	

Type (DO)	DIP switch	Position
HiC2871	not available	



For exact pin assignment for connection to field side and control side, see the documentation of the isolated barrier.



The pin-out configuration has to be observed. For information see corresponding pin-out table on www.pepperl-fuchs.com.

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