Features

- System Board for Honeywell Safety Manager
- For 16-channel AI card SAI-1620m
- For 16 modules
- Recommended module: HiC2025 (AI)
- 24 V DC supply
- Hazardous area: pluggable screw terminals, blue
- Safe area: SiC plug, 20-pin

Assembly

Function

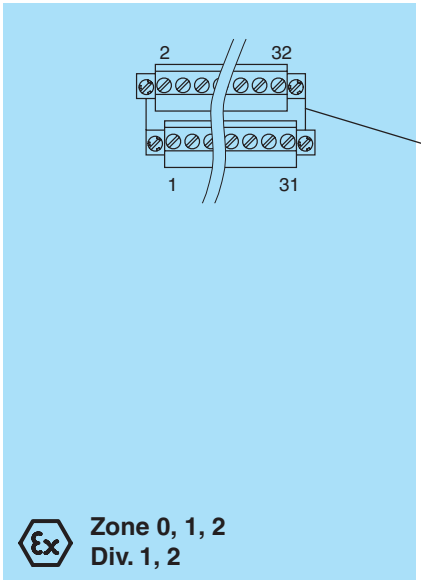
Termination Boards are made to carry isolated barriers and provide terminal connection for wiring. The termination board and the isolated barriers build the connection between field and system level.

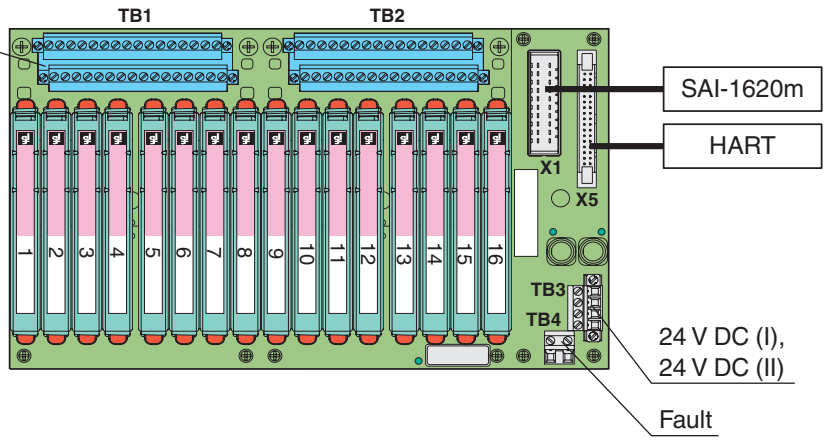
System connectors are syntonized to the requirements of the I/O cards used in the particular automation system. They ensure fast and fail-safe connection.

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.

Connection





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Supply		
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
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), green 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): plugable screw terminals, blue safe area connection (control side): SiC plug, 20-pin
Core cross-section		0.2 ... 2.5 mm² (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 Ex-areas		
EC-Type Examination Certificate		CESI 06 ATEX 022
Group, category, type of protection		Ⓔx II (1)G [Ex ia Ga] IIC Ⓔx II (1)D [Ex ia Da] IIIC Ⓔx I (M1) [Ex ia Ma] I
Safe area		
Maximum safe voltage		250 V (Attention! U_m is no rated voltage.)
Electrical 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 accessories: Label Carrier HiALC-HI*TF-SET-1**

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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	A9
		2	5b		
		3	1a	7a	GND
		4	1b		
2	2	5	5a	8a	B9
		6	5b		
		7	1a	7a	GND
		8	1b		
3	3	9	5a	8a	A8
		10	5b		
		11	1a	7a	GND
		12	1b		
4	4	13	5a	8a	B8
		14	5b		
		15	1a	7a	GND
		16	1b		
5	5	17	5a	8a	A7
		18	5b		
		19	1a	7a	GND
		20	1b		
6	6	21	5a	8a	B7
		22	5b		
		23	1a	7a	GND
		24	1b		
7	7	25	5a	8a	A6
		26	5b		
		27	1a	7a	GND
		28	1b		
8	8	29	5a	8a	B6
		30	5b		
		31	1a	7a	GND
		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	A5
		2	5b		
		3	1a	7a	GND
		4	1b		
10	10	5	5a	8a	B5
		6	5b		
		7	1a	7a	GND
		8	1b		
11	11	9	5a	8a	A4
		10	5b		
		11	1a	7a	GND
		12	1b		
12	12	13	5a	8a	B4
		14	5b		
		15	1a	7a	GND
		16	1b		
13	13	17	5a	8a	A3
		18	5b		
		19	1a	7a	GND
		20	1b		
14	14	21	5a	8a	B3
		22	5b		
		23	1a	7a	GND
		24	1b		
15	15	25	5a	8a	A2
		26	5b		
		27	1a	7a	GND
		28	1b		
16	16	29	5a	8a	B2
		30	5b		
		31	1a	7a	GND
		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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