

Features

- System board for Honeywell Safety Manager
- For 16-channel AI card SAI-1620m
- For 8 modules
- Recommended module: HiD2030 (AI), HiD2082 (Temp.)
- 24 V DC supply
- Hazardous area: pluggable screw terminals, blue
- Non-hazardous area: SiC plug, 20-pin

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.

Application

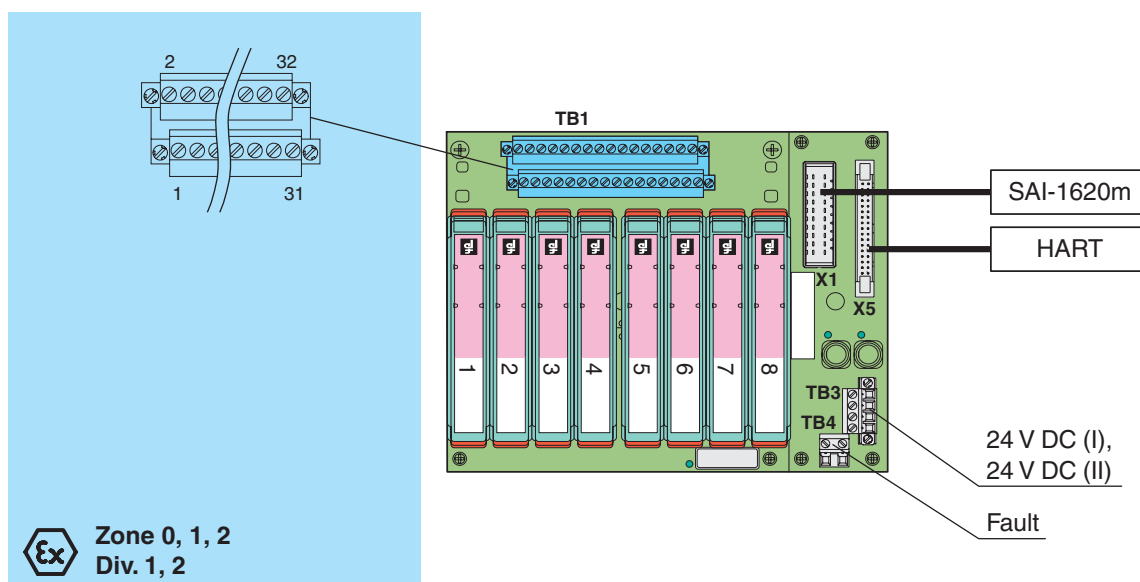
In case of temperature coverter HiD2082 only first channel is usable.

In case of using transmitter power supply HiD2030 only 2-wire transmitters are supported.

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	2 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: SiC plug, 20-pin
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. 500 g
Dimensions	201 x 155 x 153 mm (7.9 x 6.1 x 6.0 inch) , 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 11 ATEX 062
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.)
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 60079-11:2012 , EN 50303:2000
International approvals	
CSA approval	
Control drawing	see control drawing of corresponding modules
IECEX approval	
IECEX certificate	IECEX CES 11.0022
IECEX marking	[Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Ma] I
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .
Accessories	

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<p>Designation</p>	<p>provided accessory: Label Carrier HiALC-HI*TF-SET-1** optional accessories: - HART communication board HiATB01-HART-2X16 - HART multiplexer master HiDMux2700 - HART connection cable HiACA-UNI-FLK34-*M* - resistance thermometer for cold junction compensation H-CJC-SC-8</p>
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Pin-out Table

for HiD2030

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	7a	GND
	2	3	1a	10a	B9
		4	1b	9a	GND
2	3	5	5a	8a	A8
		6	5b	7a	GND
	4	7	1a	10a	B8
		8	1b	9a	GND
3	5	9	5a	8a	A7
		10	5b	7a	GND
	6	11	1a	10a	B7
		12	1b	9a	GND
4	7	13	5a	8a	A6
		14	5b	7a	GND
	8	15	1a	10a	B6
		16	1b	9a	GND
5	9	17	5a	8a	A5
		18	5b	7a	GND
	10	19	1a	10a	B5
		20	1b	9a	GND
6	11	21	5a	8a	A4
		22	5b	7a	GND
	12	23	1a	10a	B4
		24	1b	9a	GND
7	13	25	5a	8a	A3
		26	5b	7a	GND
	14	27	1a	10a	B3
		28	1b	9a	GND
8	15	29	5a	8a	A2
		30	5b	7a	GND
	16	31	1a	10a	B2
		32	1b	9a	GND

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Pin-out Table

for HiD2082

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	7a	GND
		3	1a	10a	B9
		4	1b	9a	GND
2	2	5	5a	8a	A8
		6	5b	7a	GND
		7	1a	10a	B8
		8	1b	9a	GND
3	3	9	5a	8a	A7
		10	5b	7a	GND
		11	1a	10a	B7
		12	1b	9a	GND
4	4	13	5a	8a	A6
		14	5b	7a	GND
		15	1a	10a	B6
		16	1b	9a	GND
5	5	17	5a	8a	A5
		18	5b	7a	GND
		19	1a	10a	B5
		20	1b	9a	GND
6	6	21	5a	8a	A4
		22	5b	7a	GND
		23	1a	10a	B4
		24	1b	9a	GND
7	7	25	5a	8a	A3
		26	5b	7a	GND
		27	1a	10a	B3
		28	1b	9a	GND
8	8	29	5a	8a	A2
		30	5b	7a	GND
		31	1a	10a	B2
		32	1b	9a	GND

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 ... 8	
V _{cc}	2a
	2b
GND	1a
	1b
FAULT	6b

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