

**Features**

- System board for Honeywell Safety Manager
- For 4 pieces 2-channel card SAO-0220m
- For 8 modules
- Recommended module: HiC2031 (AO)
- 24 V DC supply
- Hazardous area: pluggable screw terminals, blue
- Non-hazardous 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.

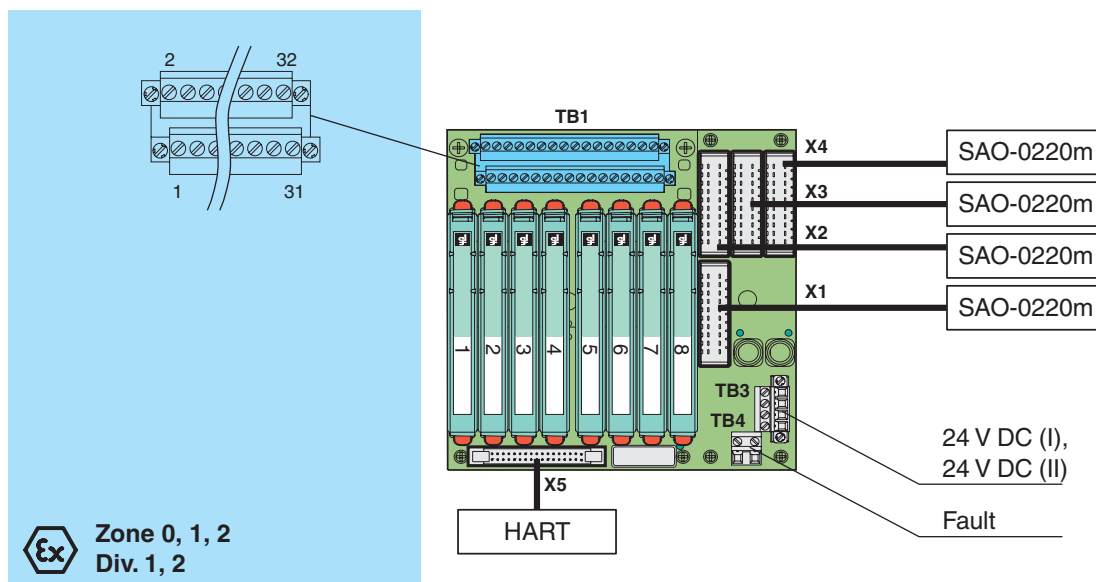
System connectors are syntonized to the requirements of the I/O cards used in the particular automation system. They ensure fast and fail-safe connection.

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.

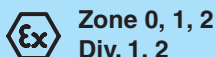
The Termination Boards are supplied with a robust glass fibre reinforced plastic housing as standard. This design permits the fast and reliable installation in the switch cabinet.



**Connection**



Release date 2019-01-31 08:51 Date of issue 2019-01-31 209359\_eng.xml



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

<b>Supply</b>	
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
<b>Redundancy</b>	
Supply	Redundancy available. The supply for the isolators is decoupled, monitored and fused.
<b>Fault indication output</b>	
Output type	volt-free contact
Contact loading	30 V DC , 1 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), green LED
<b>Directive conformity</b>	
Electromagnetic compatibility Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
<b>Conformity</b>	
Electromagnetic compatibility	NE 21:2017 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	
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 <sup>2</sup> (24 ... 12 AWG)
Material	housing: polycarbonate
Mass	approx. 450 g
Dimensions	159 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 hazardous areas</b>	
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 <sub>m</sub> 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
<b>International approvals</b>	
UL approval	
Control drawing	116-0327
IECEX approval	
IECEX certificate	IECEX CES 06.0003
IECEX marking	[Ex ia Ga] IIC [Ex ia Da] IIIC [Ex ia Ma] I
<b>General information</b>	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.
<b>Accessories</b>	

Release date 2019-01-31 08:51 Date of issue 2019-01-31 209359\_eng.xml

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

<p>Designation</p>	<p>provided accessory: Label Carrier HiALC-HI*TF-SET-1**                      optional accessories:                      - HART communication board HiATB01-HART-4X8                      - HART multiplexer master HiDMux2700                      - HART connection cable HiACA-UNI-FLK34-*M*</p>
--------------------	---

Release date 2019-01-31 08:51 Date of issue 2019-01-31 209359\_eng.xml

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

Pepperl+Fuchs Group  
 www.pepperl-fuchs.com

USA: +1 330 486 0002  
 pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222  
 pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
 pa-info@sg.pepperl-fuchs.com

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	X2	X3	X4
1	1	1	5a	8a	A7			
		2	5b					
		3	1a	7a	A8			
		4	1b					
2	2	5	5a	8a	A4			
		6	5b					
		7	1a	7a	A5			
		8	1b					
3	3	9	5a	8a		A7		
		10	5b					
		11	1a	7a		A8		
		12	1b					
4	4	13	5a	8a		A4		
		14	5b					
		15	1a	7a		A5		
		16	1b					
5	5	17	5a	8a			A7	
		18	5b					
		19	1a	7a			A8	
		20	1b					
6	6	21	5a	8a			A4	
		22	5b					
		23	1a	7a			A5	
		24	1b					
7	7	25	5a	8a				A7
		26	5b					
		27	1a	7a				A8
		28	1b					
8	8	29	5a	8a				A4
		30	5b					
		31	1a	7a				A5
		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 ... 8	
V <sub>cc</sub>	2a
	2b
GND	1a
	1b
FAULT	6b

Release date 2019-01-31 08:51 Date of issue 2019-01-31 209359\_eng.xml

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