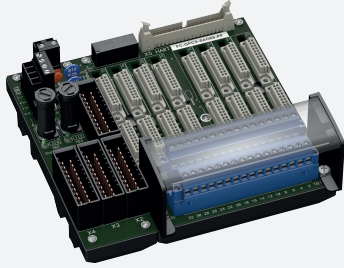


Termination Board

FC-GPCS-SAO08-PF



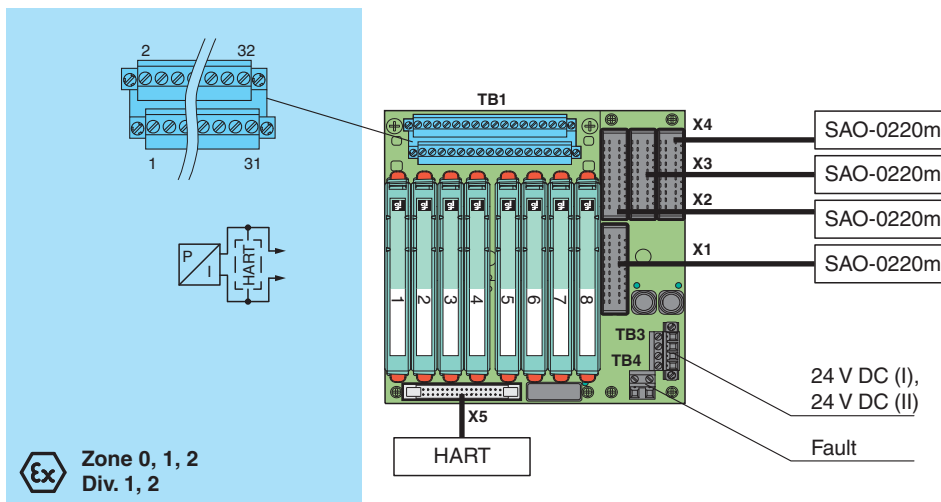
- System board for Honeywell Safety Manager
- For four 2-channel AO cards SAO-0220m
- For 8 modules
- Recommended module: HiC2031 (AO)
- 24 V DC supply
- Hazardous area: pluggable screw terminals, blue
- Non-hazardous area: SiC plug, 20-pin



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 safety instrumented 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.

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
Ripple	≤ 10 %
Fusing	2 A , in each case for 8 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.

Release date: 2023-02-20 Date of issue: 2023-02-20 Filename: 209359_eng.pdf

Technical Data

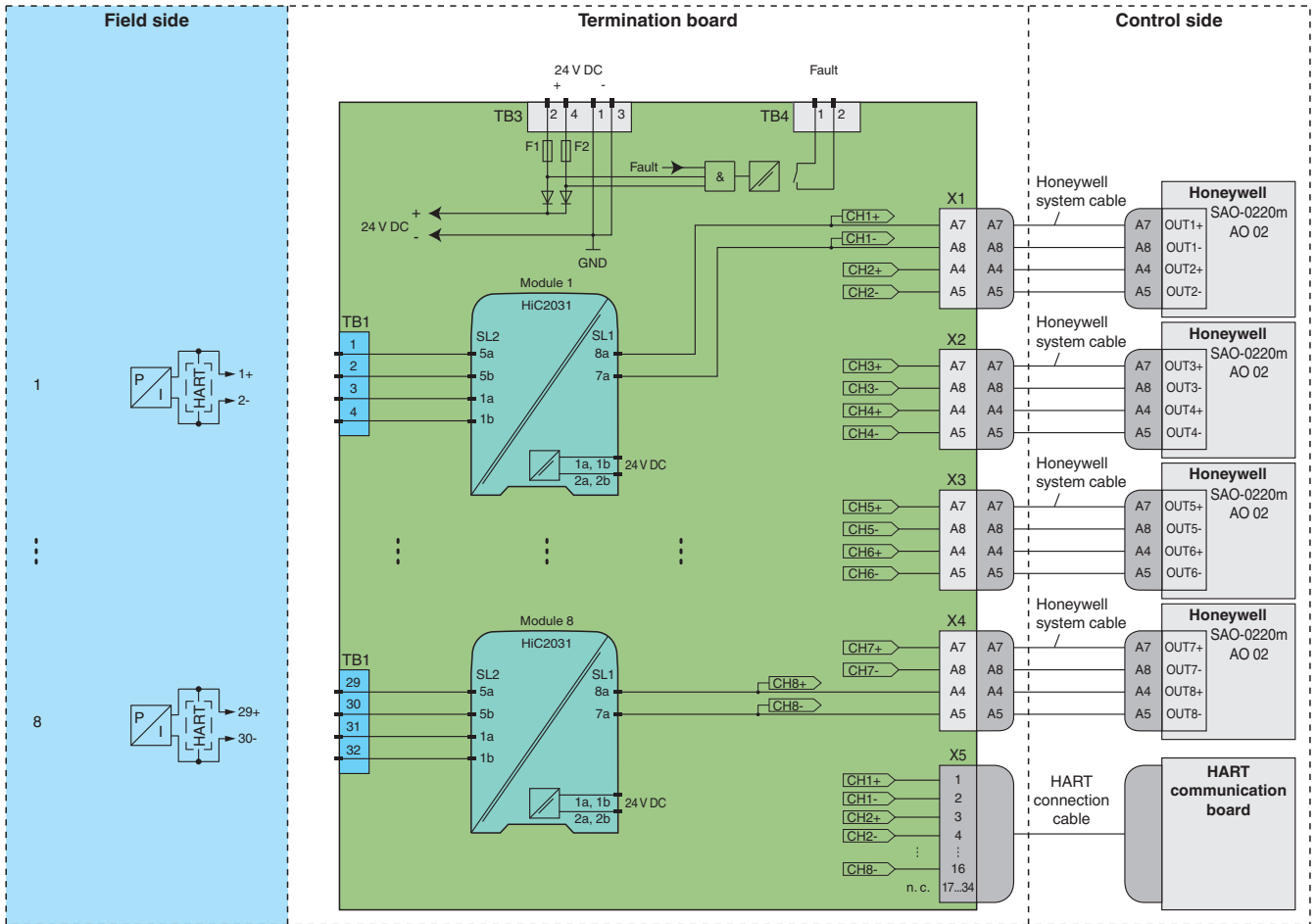
Fault indication output	
Connection	TB4: terminals 1, 2
Output type	volt-free contact
Switch behaviour	no fault: relay contact closed power supply fault: relay contact open module fault: relay contact open
Contact loading	30 V DC , 1 A
Indicators/settings	
Display elements	LED Supply1 (power supply termination 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: 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. 510 g
Dimensions	159 x 155 x 153 mm (6.3 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.)
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 60079-11:2012 , EN 50303:2000
International approvals	
UL approval	E106378
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
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-4X8	HART Communication Board
	HiDMux2700	HART Multiplexer Master
	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 (AO)	
HiC2031	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.

Release date: 2023-02-20 Date of issue: 2023-02-20 Filename: 209359_eng.pdf