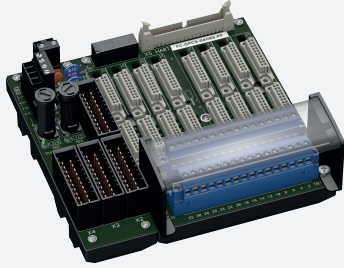


Termination Board

FC-GPCS-SAO08-PF



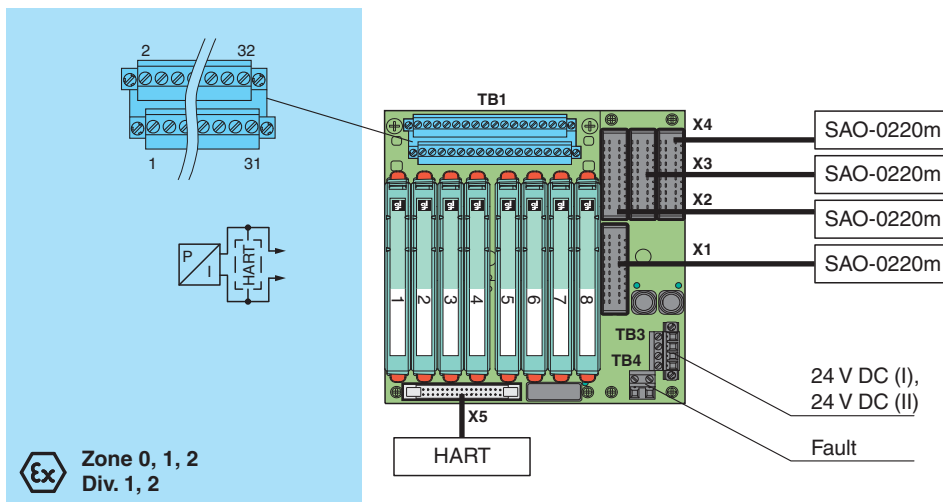
- System board for Honeywell Safety Manager
- For four 2-channel AO cards SAO-0220m
- For 8 modules
- Recommended module: HiC2031 (AO)
- 24 V DC supply
- Hazardous area: pluggable screw terminals, blue
- Non-hazardous area: SiC plug, 20-pin



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. |

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

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
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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 . |

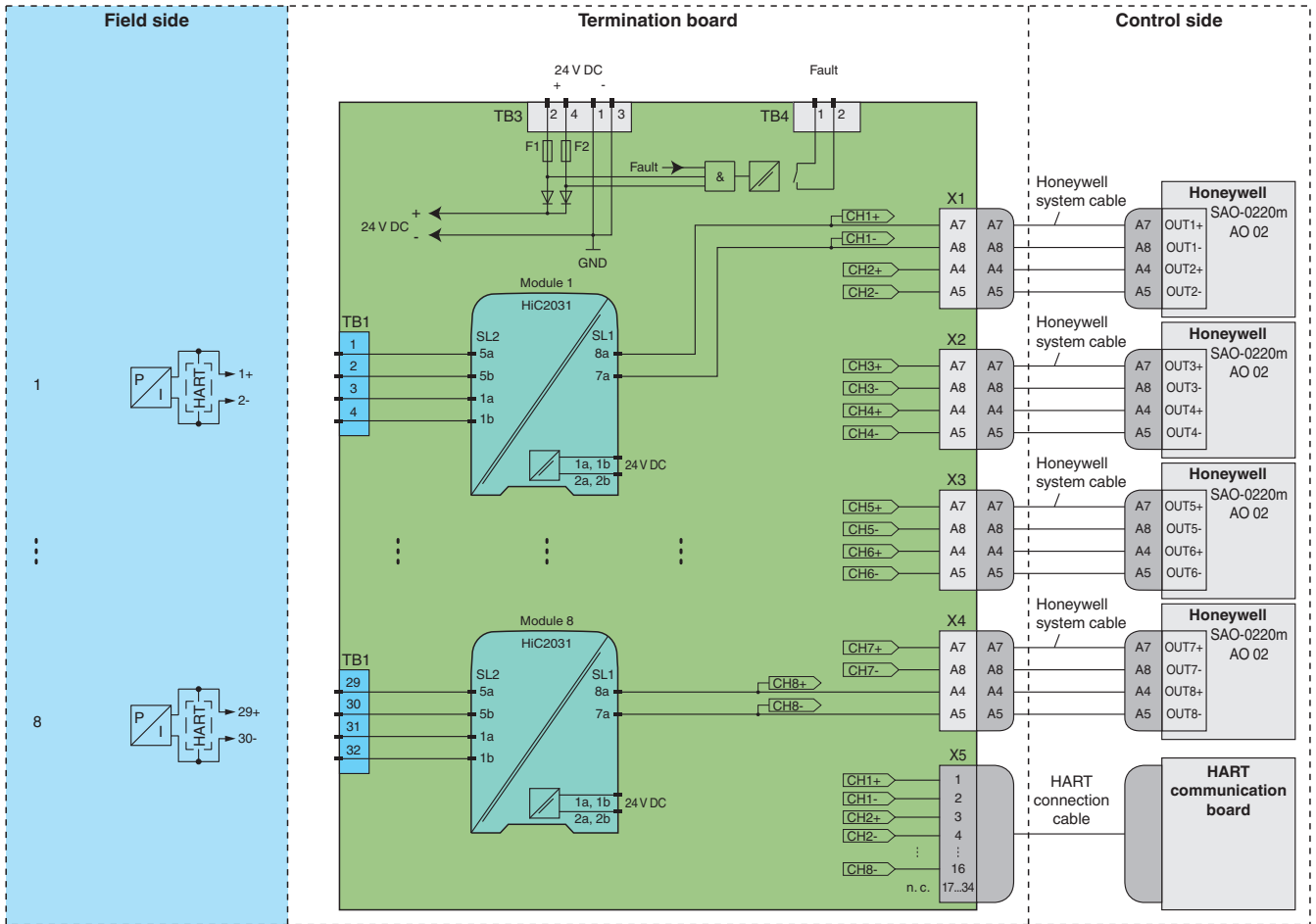
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Accessories

| | | |
|---|----------------------------------|--|
|  | 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.

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