Features Assembly • 1-channel isolated barrier 24 V DC supply (loop powered) Front view • Output 45 mA at 12 V DC • Up to SIL3 acc. to IEC 61508 **Function** CH1 LED yellow: This isolated barrier is used for intrinsic safety applications. It Status output supplies power to solenoids, LEDs, and audible alarms located in a hazardous area. HiC 2871 It is loop powered, so the available energy at the output is received from the input signal. The output signal has a 1 ch resistive characteristic. As a result the output voltage and current are dependent on the load and the input voltage. At full load, 12 V at 45 mA is available for the hazardous area Place for application. labeling

This module mounts on a HiC Termination Board.

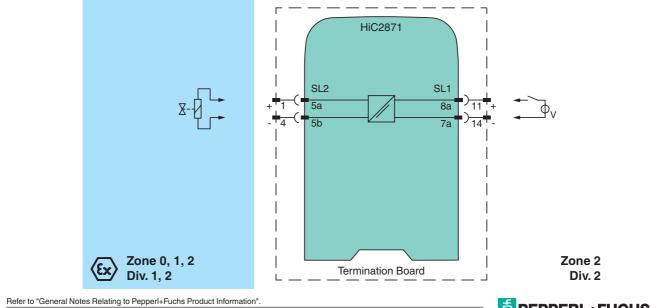


CE

SIL3

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Connection



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

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



| General specifications | | |
|---|----------------|---|
| Signal type | | Digital Output |
| | | |
| Supply | | Loss assumed |
| Connection | | loop powered |
| Power loss | | <1W |
| Input | | |
| Connection | | SL1: 8a(+), 7a(-) |
| Rated voltage | U _N | 19 30 V loop powered |
| Current | | $ \leq 72 \text{ mA at } U_i = 19 \text{ V}, \leq 50 \text{ mA at } U_i = 30 \text{ V with } 265 \Omega \text{ output load} $ $ \leq 45 \text{ mA at } U_i = 19 \text{ V}, \leq 31 \text{ mA at } U_i = 30 \text{ V with shorted output} $ $ \leq 14 \text{ mA at } U_i = 19 \text{ V}, \leq 11 \text{ mA at } U_i = 30 \text{ V no load at output} $ |
| Inrush current | | \leq 200 mA after 100 μ s |
| Output | | |
| Connection | | SL2: 5a(+), 5b(-) |
| Internal resistor | Ri | \leq 238 Ω |
| Current | I _e | ≤ 45 mA |
| Voltage | U _e | ≥ 12 V |
| Open loop voltage | U _s | ≥ 22.7 V |
| Output signal | Ψs | These values are valid for the rated operating voltage 19 30 V DC. |
| Energized/De-energized | lelav | single operation: typ. 1.7 ms/50 µs; periodical: typ. 5 µs/50 µs |
| Directive conformity | uciay | |
| • | sility (| |
| Electromagnetic compatib | | |
| Directive 2004/108/EC | | EN 61326-1:2013 (industrial locations) |
| Conformity | | |
| Electromagnetic compatib | oility | NE 21:2006 For further information see system description. |
| Degree of protection | | IEC 60529:2001 |
| Protection against electrical shock | | EN 61010-1:2010 |
| Ambient conditions | | |
| Ambient temperature | | -20 60 °C (-4 140 °F) |
| Mechanical specifications | | |
| Degree of protection | | IP20 |
| Mass | | approx. 100 g |
| Dimensions | | 12.5 x 128 x 106 mm (0.5 x 5.1 x 4.2 in) |
| Mounting | | on Termination Board |
| Coding | | pin 1 and 4 trimmed For further information see system description. |
| Data for application in connection with Ex-areas | | |
| EC-Type Examination Certificate | | BASEEFA 06 ATEX 0171X, for additional certificates see www.pepperl-fuchs.com |
| Group, category, type of protection | | $\langle x \rangle$ II (1)G [Ex ia Ga] IIC, II (1)D [Ex ia Da] IIIC, I (M1) [Ex ia Ma] I (-20 °C ≤ T _{amb} ≤ 60 °C) |
| Output | | [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I |
| Voltage | Uo | 25.2 V |
| Current | I _o | 110 mA |
| Power | P _o | 693 mW |
| Input | . 0 | |
| Maximum safe voltage | 11 | 250 V (Attention! The rated voltage can be lower.) |
| Statement of conformity | U _m | PF 08 CERT 1048 X |
| Group, category, type of protection, temperature class | | € II 3G Ex nA IIC T4 Gc |
| Electrical isolation | | |
| | | aste electrical isolation and to IEC/EN 00070 11 visite to pack visite 075 M |
| Input/Output | | safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V |
| Directive conformity | | |
| Directive 94/9/EC | | EN 60079-0:2012, EN 60079-11:2012, EN 60079-15:2010 |
| International approvals | | |
| FM approval | | |
| Control drawing | | 16-534FM-12 (cFMus) |
| IECEx approval | | IECEx BAS 06.0031X |
| 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. |

Pepperl+Fuchs Group www.pepperl-fuchs.com

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



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Configuration

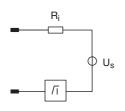
No user configuration available for this device.



The pins for this device are trimmed to polarize it according to its safety parameter. Do not change! For further information see system description.

Output characteristics

Output circuit diagram



Output characteristic

