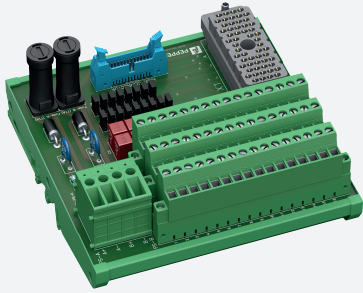


HART Termination Board

FI-PFH-TR-AI-370X-GP



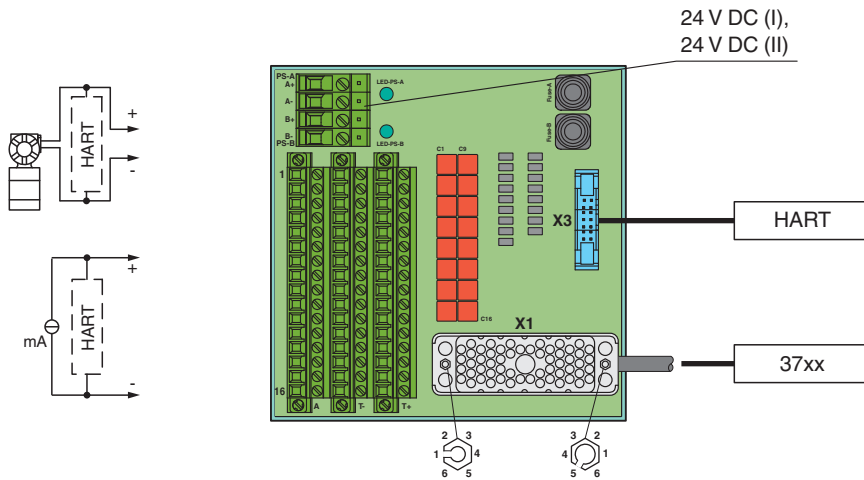
- System board for Schneider Electric, Tricon series by Triconex
- TAN48 approval
- HART Termination Board (ETP) for Tricon v10 AI module
- For 16-channel AI cards 3700, 3700A, 3703E and 3721
- 16-channel
- Field side: pluggable screw terminals, green
- Control side: ELCO socket, 56-pin



Function

The function of the HART Termination Board as well as the connector pin assignment exactly fit the requirement of Triconex systems. The HART termination board has pluggable screw terminals to connect HART field devices. The 26-pin flat cable K-HM26 is used for connection of each HART Multiplexers KFD*-HM*-16 to the termination board. The design permits the fast and reliable installation in the system cabinet.

Connection



Technical Data

| Supply | |
|-----------------------------|--|
| Rated voltage | U_r 20.4 ... 27.6 V DC SELV/PELV |
| Voltage drop | 0.9 V , voltage drop across the series diode on the termination board must be considered |
| Ripple | max. 10 % |
| Fusing | 1 A |
| Power dissipation | ≤ 500 mW |
| Reverse polarity protection | yes |
| Interface | |
| Type | multiplexer connection : IDC plug, 26-pin |
| Redundancy | |
| Supply | Redundancy available. The supply is decoupled, monitored and fused. |

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Technical Data

| | | |
|--|-------|---|
| Signal lines | | |
| Rated current | I_B | max. 30 mA per channel |
| Indicators/settings | | |
| Display elements | | - LED PS-A (Termination Board power supply), green LED - LED PS-B (Termination Board power supply), 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 |
| Shock resistance | | EN 60068-2-27 |
| Vibration resistance | | EN 60068-2-6 |
| Ambient conditions | | |
| Ambient temperature | | 0 ... 50 °C (32 ... 122 °F) |
| Storage temperature | | -15 ... 50 °C (5 ... 122 °F) |
| Relative humidity | | ≤ 93 % non-condensing |
| Shock resistance | | 15 g , 11 ms |
| Vibration resistance | | 1 g , 10 ... 150 Hz |
| Mechanical specifications | | |
| Degree of protection | | IP20 |
| Connection | | |
| Field side | | pluggable screw terminals , green |
| Control side | | ELCO socket, 56-pin HART : 1 x IDC plug, 26-pin |
| Supply | | screw terminals , green |
| Core cross section | | 0.5 ... 2.5 mm ² (20 ... 12 AWG) |
| Material | | |
| Housing | | PVC |
| Mass | | approx. 415 g |
| Dimensions | | 126 x 123 x 59 mm (5.0 x 4.9 x 2.3 inch) (W x H x D) |
| Mounting | | on 35 mm DIN mounting rail acc. to EN 60715:2001 |
| Data for application in connection with hazardous areas | | |
| Certificate | | PF 11 CERT 1931 X |
| Marking | | Ⓢ II 3G Ex nA IIC T4 Gc |
| Directive conformity | | |
| Directive 2014/34/EU | | EN IEC 60079-0:2018+AC:2020 , EN 60079-15:2010 |
| General information | | |
| Supplementary information | | Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com . |

Safety Information

We recommend that you do not connect the device supply to a DC supply network.
If you connect the device supply to a DC supply network, make sure that appropriate protective measures are implemented to ensure that no transient overvoltages occur.

Matching System Components

| | | |
|---|--------------------|-------------------------|
|  | KFD0-HMS-16 | HART Multiplexer Slave |
|  | KFD2-HMM-16 | HART Multiplexer Master |

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
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Accessories

| | | |
|---|-----------------------------|--|
|  | <p>K-HM26-114025</p> | <p>HART connection cable for master/slave - termination board connection</p> |
|  | <p>K-HM14</p> | <p>HART connection cable for master - slave connection</p> |

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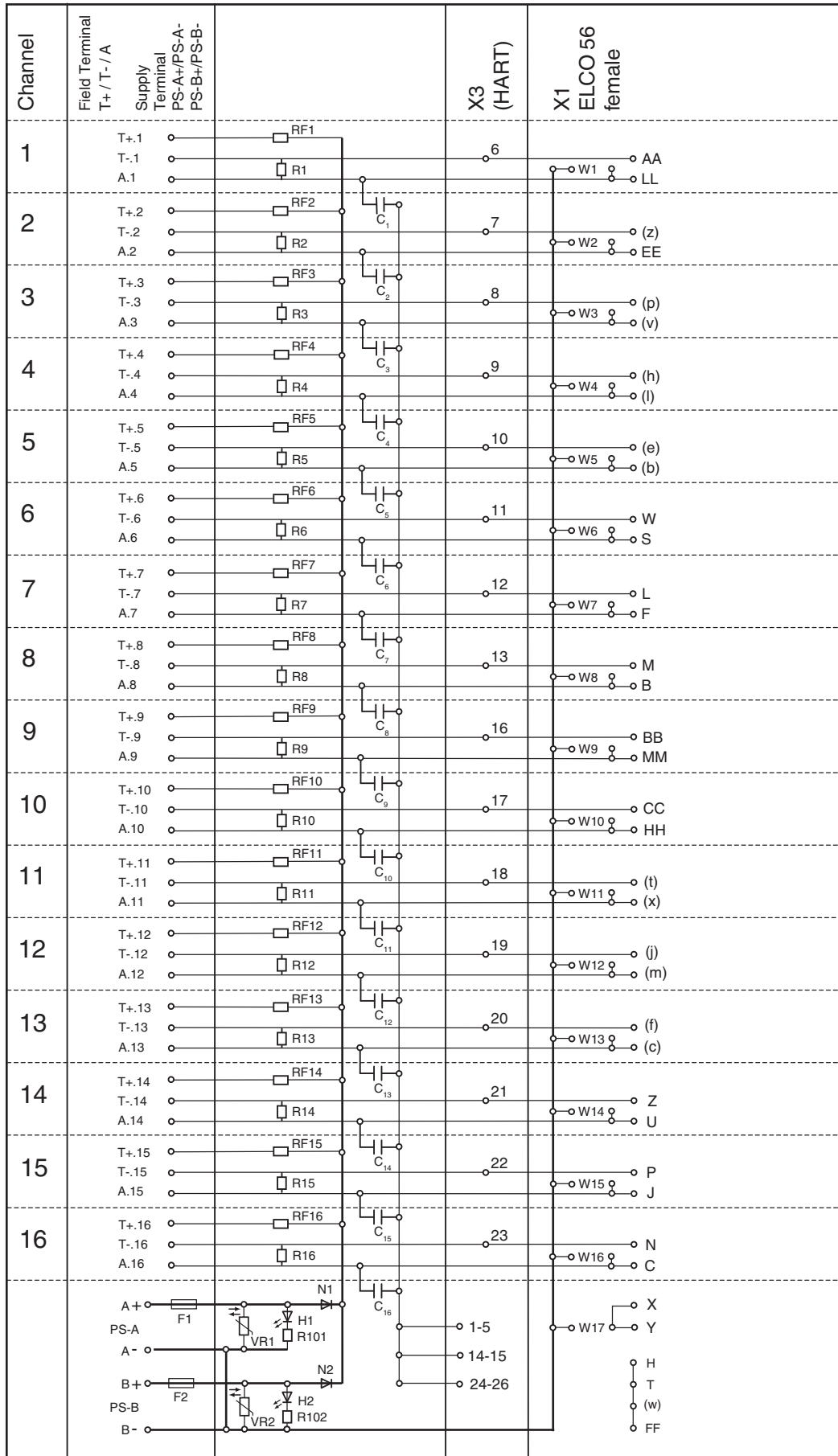
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Connection Assignment



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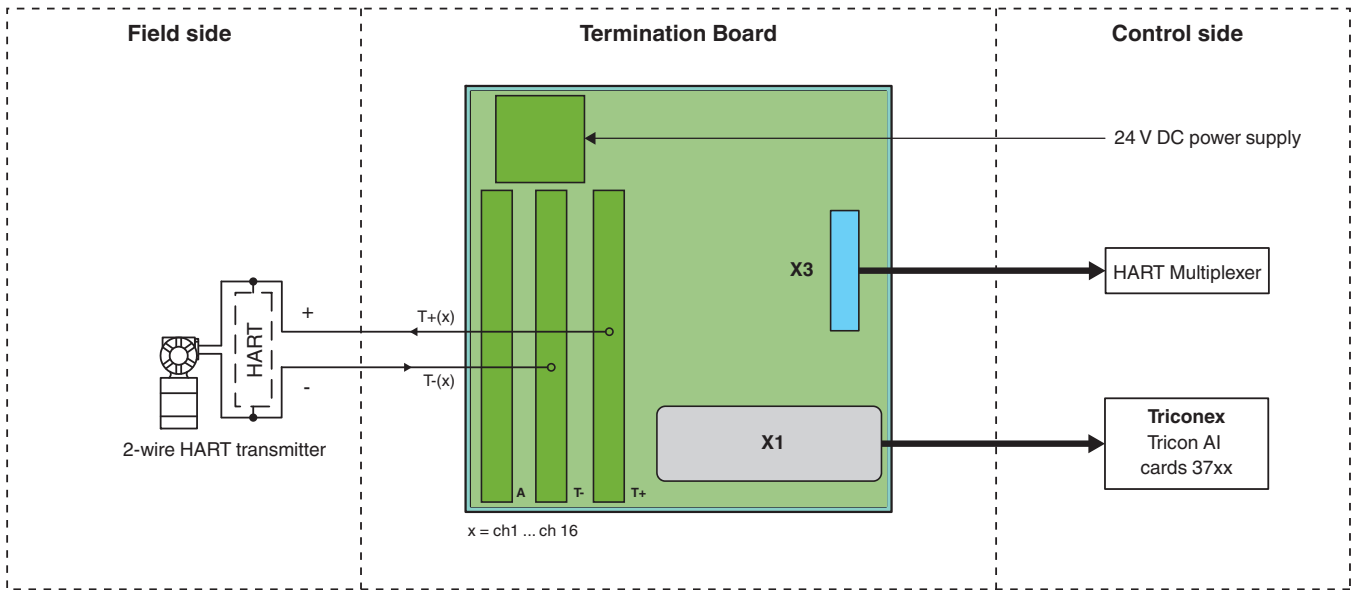
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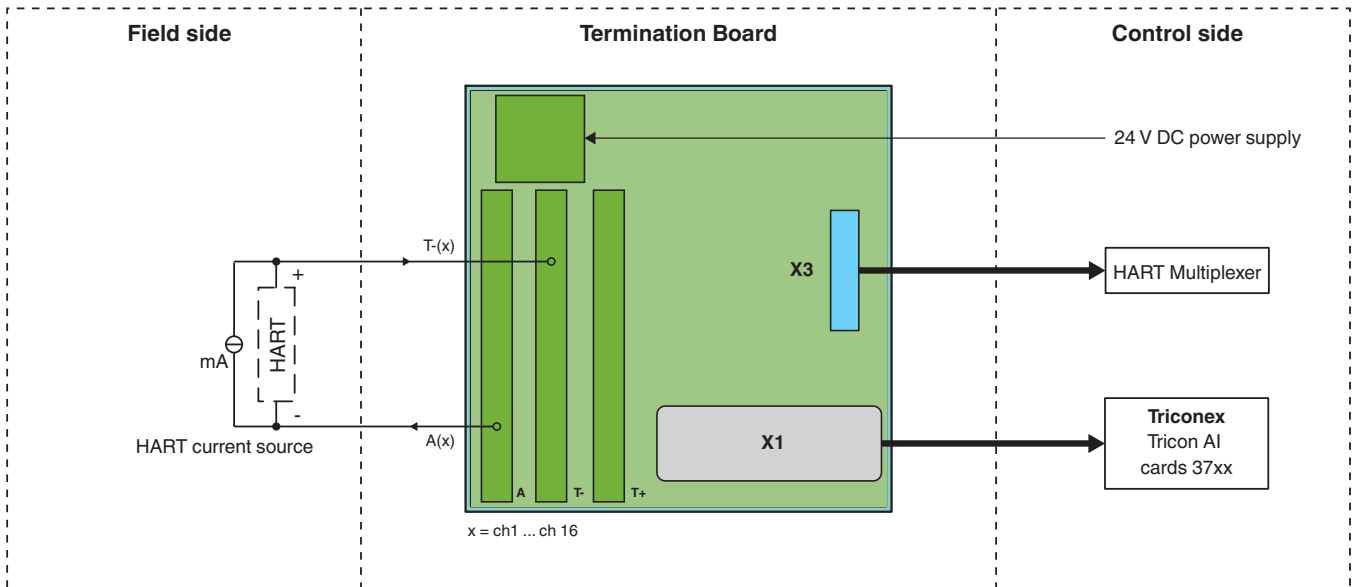
Application


Typical loop: 2-wire HART transmitter input



 Always insert jumper W1 ... W16, W17.

Typical loop: HART current source



 Common mode: insert jumper W1 ... W16, W17.
 Differential mode: remove jumper W1 ... W16, W17.

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