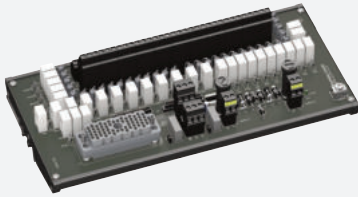


HART Termination Board

HiSHPTB/32/TR-AI-03



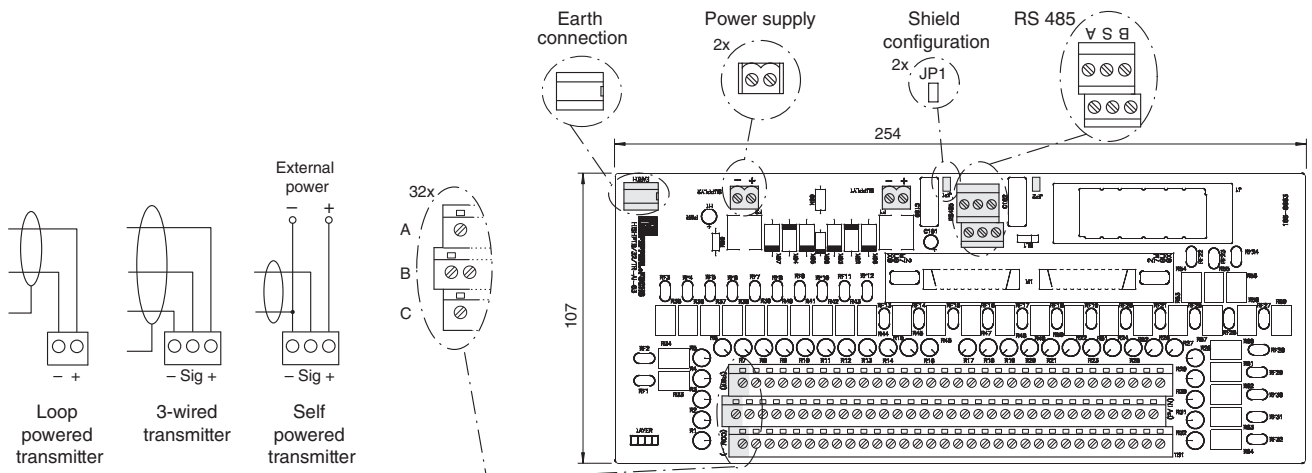
- Triconex 3704E and 3720 replacement FTA
- 2- or 3-wire or self powered transmitters
- Outputs: 1 x 32 channels, 0 V ... 5 V differential, DC coupled
- Short-circuit protected
- Plug-n-play wiring capabilities



Function

The Termination Board is designed for easy HiDMux2700 Multiplexer integration with the Tricon safety system. With the Multiplexer integrated into the board and plug-n-play option for the DCS equipment, this provides a very clean access to the HART signals, while reducing the need for marshalling cabinets and reducing equipment that require extra cabinet space. The HART Termination Board provides a robust solution for on-line HART communications, interfaces up to 32 field located HART devices, and, it allows the user to replace standard DCS field termination panels.

Connection



Technical Data

Supply

Rated voltage	U_r	20 ... 30 V DC
Fusing		3.15 A , 5 x 20 mm (0.2 x 0.8 inch)
Power dissipation		0.7 W , with Multiplexer
Reverse polarity protection		yes

HART signal channels (intrinsically safe)

HART signal channels	
Number of channels	32 unbalanced signal loops

Redundancy

Supply	yes
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Galvanic isolation

Release date: 2023-06-01 Date of issue: 2023-06-01 Filename: 911168_eng.pdf

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

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 **PEPPERL+FUCHS**

Technical Data

HART signal channels	30 V DC
Ambient conditions	
Ambient temperature	0 ... 55 °C (32 ... 131 °F)
Relative humidity	5 ... 90 %, non-condensing
Mechanical specifications	
Core cross section	2.5 mm ² (16 AWG)
Connection	field side: screw terminals control side: 56-pin Elco connector RS 485 interface: removable screw terminals power: removable screw terminals
Mass	approx. 500 g
Dimensions	254 x 107 x 208 mm (10 x 4.2 x 8.2 inch) (W x H x D) , depth including module assembly with HiDMux2700
Mounting	DIN rail mounting
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .

Additional Information

Connection Assignment

Connector	Channel
J1	1 ... 16
J2	17 ... 32

Configuration

Jumper	Analog input	Galvanic grounding	Capacitive grounding
JP1	RS-485	closed	opened

Interface

Triconex I/O interface

- 3704E, requires 2 pieces of the HiSHPTB/32/TR-AI-03 for every 3721 input card
- 3720, requires 2 pieces of the HiSHPTB/32/TR-AI-03 for every 3721 input card