

Features

- System Board for Emerson DeltaV
- For one 32-channel DI card via 40-pin Mass Termination Block
- For 4 modules/16 channels
- Recommended module: HiD2844 (DI)
- Volt-free fault indication output
- 24 V DC supply, reverse polarity protected, optional daisychainable
- Hazardous area: screw terminals, blue
- Safe area: IDC connector, 20-pin

Function

The function of the Termination Board as well as the connector pin assignment exactly fit the requirement of DeltaV Traditional I/O systems.

Information about line fault detection of the interface modules is available for the system as volt-free contact.

The Termination Boards are supplied with a robust plastic housing as standard. This design permits the fast and reliable installation on 35 mm DIN mounting rail acc. to EN 60715 in the cabinet.

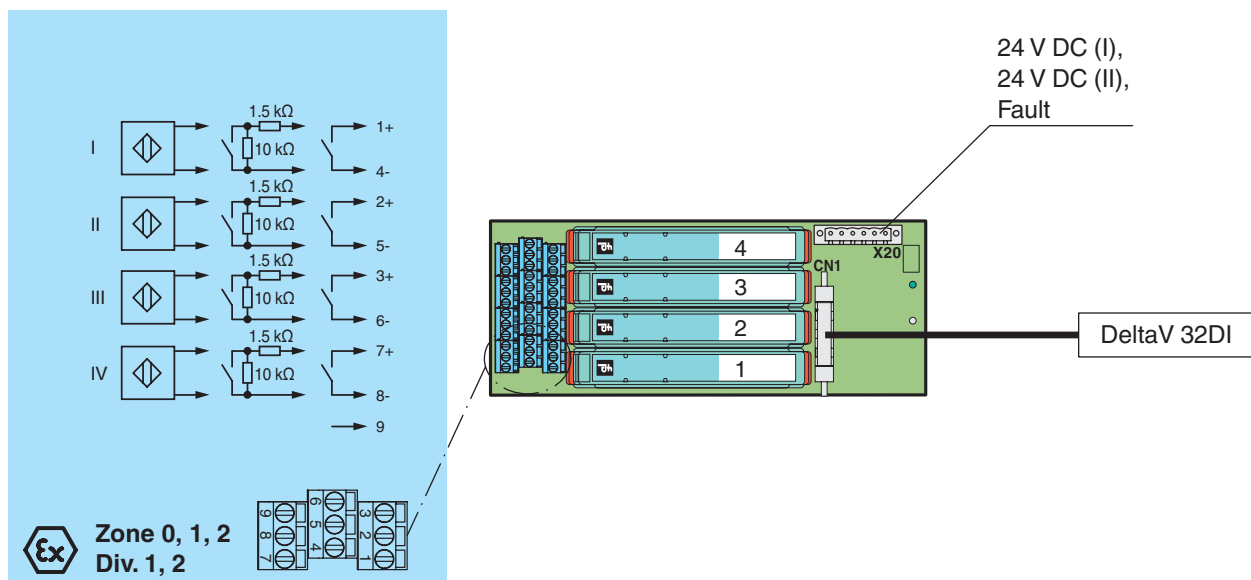
Application

For detailed listing of connectable cards see application section.

Assembly



Connection



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

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PROTECTING YOUR PROCESS

Supply		
Rated voltage	U_n	24 V DC , in consideration of rated voltage of used isolated barriers
Voltage drop		0.9 V , voltage drop across the series diode on the Termination Board must be considered
Ripple		≤ 10 %
Fusing		3.15 A with back-up fuse
Power loss		≤ 500 mW , without modules
Reverse polarity protection		yes
Electrical specifications		
volt-free fault indication output		max. 30 V AC/30 V DC, 1 A
Indicators/settings		
Display elements		LED PWR (power supply), one green LED LED FAULT (fault indication), one red LED
Directive conformity		
Electromagnetic compatibility		
Directive 2004/108/EC		EN 61326-1:2013
Conformity		
Electromagnetic compatibility		NE 21:2011 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		hazardous area connection (field side): screw terminals, blue safe area connection (control side): IDC plug, 20-pin
Core cross-section		0.2 ... 2.5 mm ² (22 ... 12 AWG)
Material		housing: polycarbonate
Mass		approx. 350 g
Dimensions		82 x 205 x 157 mm (3.23 x 8.1 x 6.2 in) , height including module assembly
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with Ex-areas		
EC-Type Examination Certificate		SIRA 13 ATEX 2388X , for additional certificates see www.pepperl-fuchs.com
Group, category, type of protection		see certificate
Safe area		
Maximum safe voltage		250 V (Attention! U_m is no rated voltage.)
Electrical isolation		
Field circuit/control circuit		safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Directive conformity		
Directive 94/9/EC		EN 60079-0:2012+A11:2013 , EN 60079-11:2012
International approvals		
CSA approval		
Control drawing		116-0381
IECEX approval		IECEX CSA 13.0040X
Approved for		see certificate
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 .

Application

DeltaV M-series 32-channel DI Series 2 simplex card (24 V DC, dry contact):

- Termination Board 1: channel 1 ... 16
- Termination Board 2: channel 17 ... 32

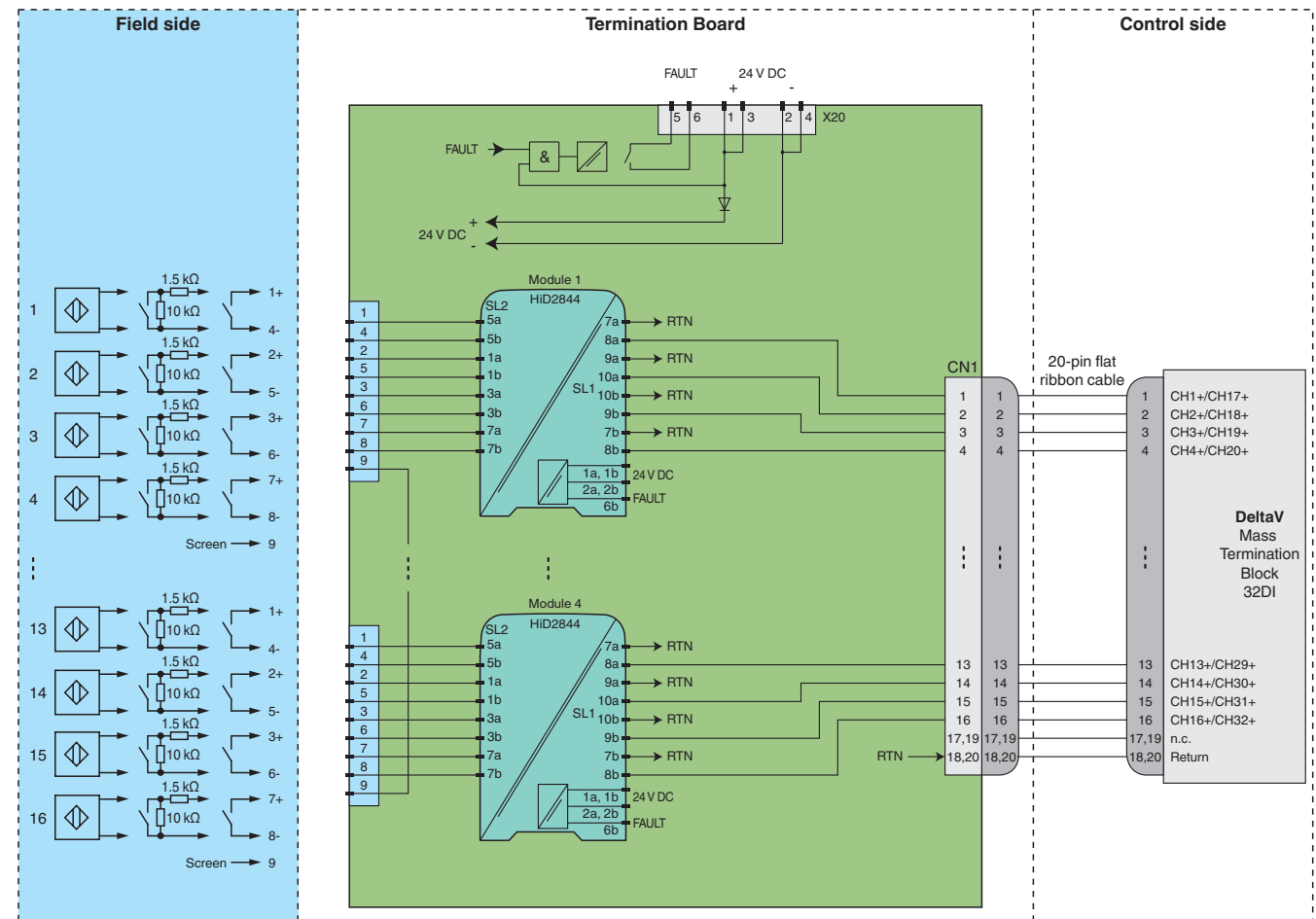
DeltaV S-series 32-channel DI simplex card (24 V DC, dry contact):

- Termination Board 1: channel 1 ... 16
- Termination Board 2: channel 17 ... 32

Release date 2015-05-05 16:14 Date of issue 2015-05-05 253132_eng.xml

Application

Typical loop



Module switch settings

Type	DIP switch	Position
HiD2844 (DI)	S1	ON
• open (energized)/ close (de-energized)	S2	ON
• Line fault detection enable	S3	ON
	S4	ON
	S5	ON
	S6	ON
	S7	ON
	S8	ON

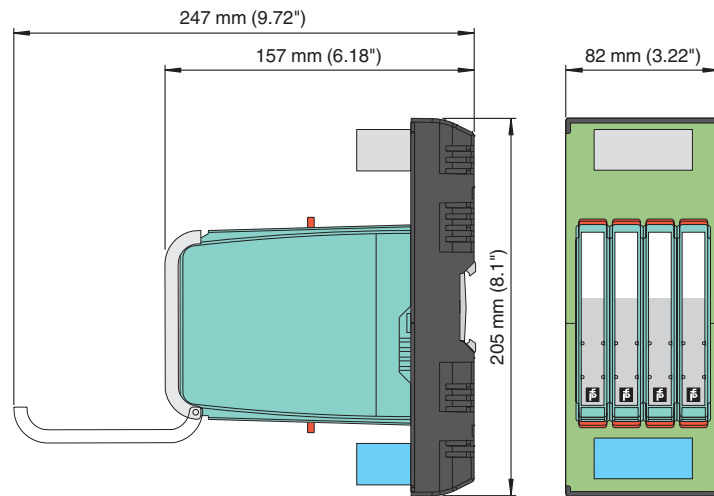


The pin-out configuration has to be observed. For information see corresponding pin-out table on www.pepperl-fuchs.com.

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Dimensions



Mounting

Possible mounting positions

