Assembly

- For 8 modules
- 24 V DC supply
- Supported signal types: DI/DO/AI/TI/AO
- · Hazardous area: screw terminals, blue
- · Non-hazardous area: screw terminals, black

Function

The termination board has 8 plug-in slots for isolators. Any isolator can be inserted into any slot, enabling a mixture of I/O types on one termination board.

The termination board features fixed screw terminals for the field side connection and for the control side connection along with a HART cordset for interconnection to a separate HART Communication Board.

Information about missing supply voltage of the isolators is available for the system as volt-free contact at the redundant power supply terminals.

Wiring errors from field side will be reported via the same relay contact, if this function supported by the the isolators.

The termination board is 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.



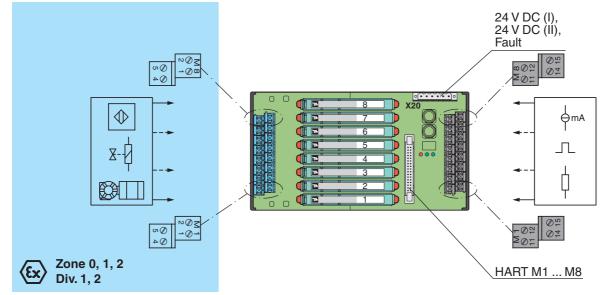


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Connection

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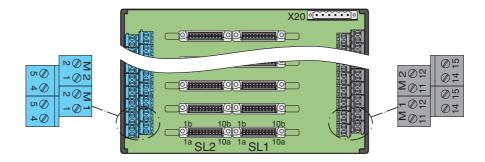


Refer to "General Notes Relating to Pepperl+Fuchs Product Information

Supply	
Connection	X20: terminals 3, 5 (+); 4, 6 (-)
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.
Fault indication output	
Connection	X20: terminals 1, 2
Output type	volt-free contact
Contact loading	30 V DC, 1 A
Indicators/settings	
Display elements	LED PWR1 (termination board power supply), green LED LED PWR2 (termination board power supply), green LED LED FAULT (fault indication), red LED - LED lits: module failure - LED flashes: power supply failure
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: 4 screw terminals per module , blue
Control side	non-explosion hazardous area: 4 screw terminals per module , black
Supply	pluggable screw terminals, black
Core cross-section	screw terminals: 0.25 1.5 mm ² (24 12 AWG)
Material	housing: polycarbonate, 10 % glass fiber reinforced
Mass	approx. 450 g
Dimensions	108 x 200 x 163 mm (4.25 x 7.9 x 6.42 inch) , height 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	
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Marking	(Ex) (1)G [Ex ia Ga] C (Ex) (1)D [Ex ia Da] I C
*.	⟨ II (1)G [Ex ia Ga] IIC
Marking Non-hazardous area	(Ex) (1)G [Ex ia Ga] C (Ex) (1)D [Ex ia Da] I C (Ex) (M1) [Ex ia Ma]
Marking	(Ex) (1)G [Ex ia Ga] C (Ex) (1)D [Ex ia Da] I C
Marking Non-hazardous area Maximum safe voltage Certificate	(Ex) II (1)G [Ex ia Ga] IIC (Ex) II (1)D [Ex ia Da] IIIC (Ex) I (M1) [Ex ia Ma] I 250 V (Attention! U _m is no rated voltage.) DEMKO 18 ATEX 2116 X
Marking Non-hazardous area Maximum safe voltage Certificate Marking	(a) II (1)G [Ex ia Ga] IIC (b) II (1)D [Ex ia Da] IIIC (c) I (M1) [Ex ia Ma] I 250 V (Attention! U _m is no rated voltage.)
Marking Non-hazardous area Maximum safe voltage Certificate	Exil (1)G [Exia Ga] IIC Exia Da] IIIC Exia Da] IIIC Exia Da] IIIC Exia Ma] I 250 V (Attention! U _m is no rated voltage.) DEMKO 18 ATEX 2116 X Exist II 3G Exist Circle T4 Gc
Marking Non-hazardous area Maximum safe voltage Certificate Marking Galvanic isolation Field circuit/control circuit	(Ex) II (1)G [Ex ia Ga] IIC (Ex) II (1)D [Ex ia Da] IIIC (Ex) I (M1) [Ex ia Ma] I 250 V (Attention! U _m is no rated voltage.) DEMKO 18 ATEX 2116 X
Marking Non-hazardous area Maximum safe voltage Certificate Marking Galvanic isolation Field circuit/control circuit Directive conformity	Exil (1)G [Exia Ga] IIC Exia Da] IIIC Exia Da] IIIC Exia Da] IIIC Exia Ma] I 250 V (Attention! U _m is no rated voltage.) DEMKO 18 ATEX 2116 X Exist II 3G Exist Circle T4 Gc
Marking Non-hazardous area Maximum safe voltage Certificate Marking Galvanic isolation Field circuit/control circuit	Exil (1)G [Ex ia Ga] IIC Exil (1)D [Ex ia Da] IIIC Exil (M1) [Ex ia Ma] I 250 V (Attention! U _m is no rated voltage.) DEMKO 18 ATEX 2116 X Exil 3G Ex ec nC IIC T4 Gc safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
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Marking Non-hazardous area Maximum safe voltage Certificate Marking Galvanic isolation Field circuit/control circuit Directive conformity Directive 2014/34/EU International approvals UL approval Control drawing	(Ex) II (1)G [Ex ia Ga] IIC (Ex) II (1)D [Ex ia Da] IIIC (Ex) I (M1) [Ex ia Ma] I 250 V (Attention! U _m is no rated voltage.) DEMKO 18 ATEX 2116 X (Ex) II 3G Ex ec nC IIC T4 Gc safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012, IEC 60079-15:2017, EN 50303:2000
Marking Non-hazardous area Maximum safe voltage Certificate Marking Galvanic isolation Field circuit/control circuit Directive conformity Directive 2014/34/EU International approvals UL approval	(Ex) II (1)G [Ex ia Ga] IIC (Ex) II (1)D [Ex ia Da] IIIC (Ex) I (M1) [Ex ia Ma] I 250 V (Attention! U _m is no rated voltage.) DEMKO 18 ATEX 2116 X (Ex) II 3G Ex ec nC IIC T4 Gc safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN 60079-11:2012, IEC 60079-15:2017, EN 50303:2000
Marking Non-hazardous area Maximum safe voltage Certificate Marking Galvanic isolation Field circuit/control circuit Directive conformity Directive 2014/34/EU International approvals UL approval Control drawing IECEx approval	Exit (1)G [Ex ia Ga] IIC Exit (1)D [Ex ia Da] IIIC Exit (1)D [Ex ia Da] IIIC Exit (M1) [Ex ia Ma] I 250 V (Attention! U _m is no rated voltage.) DEMKO 18 ATEX 2116 X Exit II 3G Ex ec nC IIC T4 Gc safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V EN 60079-0:2012+A11:2013 , EN 60079-7:2015 , EN 60079-11:2012 , IEC 60079-15:2017 , EN 50303:2000 116-0327
Marking Non-hazardous area Maximum safe voltage Certificate Marking Galvanic isolation Field circuit/control circuit Directive conformity Directive 2014/34/EU International approvals UL approval Control drawing IECEx approval	Exit (1)G [Ex ia Ga] IIC Exit (1)D [Ex ia Da] IIIC Exit (M1) [Ex ia Da] IIIC Exit (M1) [Ex ia Ma] I 250 V (Attention! U _m is no rated voltage.) DEMKO 18 ATEX 2116 X Exit II 3G Ex ec nC IIC T4 Gc safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V EN 60079-0:2012+A11:2013 , EN 60079-7:2015 , EN 60079-11:2012 , IEC 60079-15:2017 , EN 50303:2000 116-0327 IECEx CES 06.0003



Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.
Accessories	
Designation	optional accessories: - HART communication board HiATB01-HART-4X8-Y1 - HART multiplexer master HiDMux2700 - HART connection cable HiACA-UNI-FLK34-*M*



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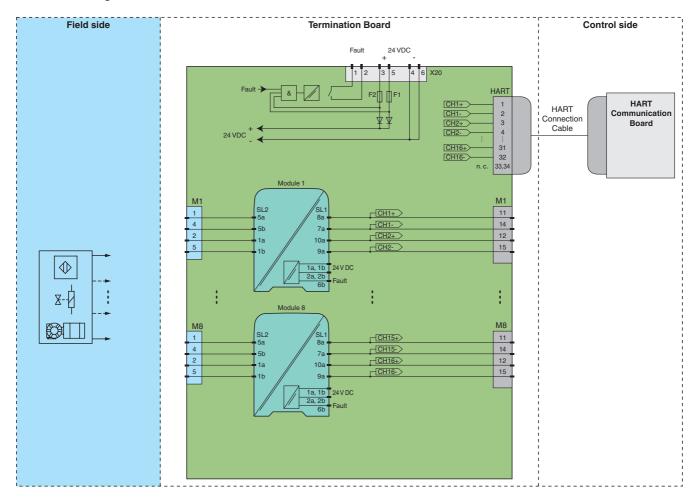
Insert the isolated barrier on the Termination Board. This closes the signal circuit between field side and control side. Connect field devices and controller to the terminals or connecting plugs of the Termination Board. For pin assignment between terminals, connecting plugs and connectors SL1/SL2, see drawing "Connection diagram" or the corresponding pin-out table on www.pepperl-fuchs.com.



For exact pin assignment for fieldside and control side, see the documentation of the isolated barrier.

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Connection diagram





For exact pin assignment for connection to field side and control side, see the documentation of the isolated barrier.

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