Features

- · 2-channel isolated barrier
- 24 V DC supply (bus or loop powered)
- · Contact or logic control input
- · 2 relay contact outputs to the field side

Function

This isolated barrier is used for intrinsic safety applications. It is used to initiate control signals or to switch power from a protected supply to a load in a hazardous area.

The relay output is driven from a loop-powered safe area control signal or controlled by a safe area switch contact, transistor, or logic-level input.

These command signals can be combined to enable the interaction of DCS and ESD systems. Each channel can be loop-powered, ensuring high integrity operation. LEDs provide the relay status of each channel.

This module mounts on a HiD Termination Board.

Assembly



CE



Connection



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Concretenceifications	
	Dishel Ostavi
Signal type	Digital Output
Supply	
Connection	SL1: 1a(-), 1D(-); 2a(+), 2D(+)
Rated voltage Or	20.4 30 V DC bus powered via Termination Board
Bated current	loop powered 27 mA at 24 V (per channel)
rated ourient ir	bus powered 30 mA at 24 V (per channel)
Power dissipation	loop powered 0.6 W at 24 V (per channel)
·	bus powered 0.9 W at 24 V (per channel)
Input	
Connection side	control side
Connection	SL1: 8a(+), 7a(-), 8b(+), 7b(-); 10a(+), 9a(-), 9b(+), 10b(-)
Control input	external switch (voltage free contact or open collector) or logic level signal
Input resistance	2.5 kΩ
Operating mode	relay energized with cntact closed, transistor on or logic level > 4 V
	relay de-energized with contact open, transistor off or logic level < 2 V
Output	
Connection side	field side
Output type	
Connection	SL2: 5a, 5b, 7a; 1a, 1b, 3b
Contact loading	50 V DC / 1 A
Transfer characteristics	
Switching frequency	10 Hz
Galvanic isolation	
Input/power supply	functional insulation acc. to EN 50178, rated insulation voltage 50 V_{eff}
Indicators/settings	
Display elements	LEDs
Control elements	DIP-switch
Configuration	via DIP switches
Labeling	space for labeling at the front
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013 (industrial locations)
Conformity	
Galvanic isolation	EN 50178
Electromagnetic compatibility	NE 21:2006
	For further information see system description.
Degree of protection	IEC 60529
Ambient conditions	
Ambient temperature	-20 60 °C (-4 140 °F)
Relative humidity	5 90 %, non-condensing up to 35 °C (95 °F)
Mechanical specifications	
Degree of protection	IP20
Mass	approx. 140 g
Dimensions	18 x 106 x 128 mm (0.7 x 4.2 x 5 inch)
Mounting	on Termination Board
Coding	pin 1, 2, 3 and 4 trimmed
	For further information see system description.
Data for application in connection	
with hazardous areas	
EU-Type Examination Certificate	
Marking	
Input	Exia, ExiaD
Voltage U _i	30 V
Current I _i	1A
Supply	
Maximum safe voltage U _m	250 V AC (Attention! U _m is no rated voltage.)
Certificate	PF 11 CERT 2109 X
Marking	(EX) II 3G EX nA nC IIC T4 GC
Galvanic isolation	
Input/Output	sate electrical isolation acc. to EN 60079-11: 2007, voltage peak value 375 V
Output/power supply	sate electrical isolation acc. to EN 60079-11: 2007, voltage peak value 375 V
Output/Output	sate electrical isolation acc. to EN 60079-11:2007, voltage peak value 60 V
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-11:2012 , EN 60079-15:2010

Refer to "General Notes Relating to Pepperl+Fuchs Product Information". Pepperl+Fuchs Group www.pepperl-fuchs.com

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International approvals	
IECEx approval	IECEx TUN 04.0012
Approved for	[Ex ia] IIC
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

Configuration



Configure the device in the following way:

- Push the red Quick Lok Bars on each side of the device in the upper position.
- Remove the device from Termination Board.
- Set the DIP switches according to the figure.



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

