

Relay output LB6001A2

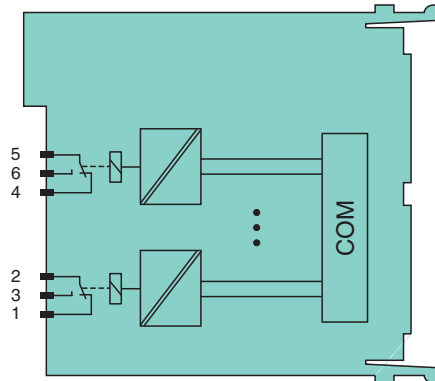
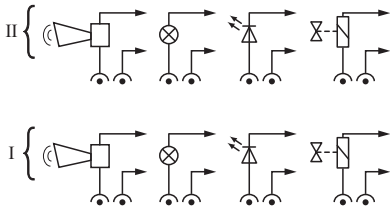
- 2-channel
- Installation in Zone 2 or safe area
- Positive or negative logic cannot be parameterized
- Simulation mode for service operations (forcing)
- Permanently self-monitoring
- Output with watchdog



Function

The device features 2 independent channels.
The device can be used to switch solenoids.
The device can perform general switching operations, such as switching auxiliary power circuits.
The outputs are galvanically isolated from the bus and the power supply.

Connection



Zone 2

Technical Data

Slots			
Occupied slots	1		
Supply			
Connection	backplane bus		
Rated voltage	U_r	12 V DC +4/-2 % , only in connection with the power supply LB9006C	
Power dissipation	0.5 W		
Power consumption	0.45 W		
Internal bus			
Connection	backplane bus		
Interface	manufacturer-specific bus to standard com unit		
Digital output			
Number of channels	2		

Technical Data

Field device interface	
Connection	Relay output
Connection	channel I: 1-2 NC, 3; channel II: 4-5 NC, 6
Relay	
Switching voltage	30 V DC
Switching current	1 A DC
Switch power	30 W
Minimum load	5 V 10 mA
Electrical life	0.03 million switching cycles at maximum load and temperature
Contact Material	AgPd gold plated
Response time	20 ms (depending on bus cycle time)
Watchdog	within 0.5 s the device goes in safe state, e.g. after loss of communication
Indicators/settings	
LED indication	Power LED (P) green: supply Diagnostic LED (I) red: module fault , red flashing: Communication error or active safety shutdown Status LED (1-2) yellow: Channel status
Coding	optional mechanical coding via front socket
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1
Low voltage	
Directive 2014/35/EU	EN 61010-1 , EN 60664-1
Conformity	
Electromagnetic compatibility	
Degree of protection	NE 21
Environmental test	IEC 60529
Shock resistance	EN 60068-2-14
Vibration resistance	EN 60068-2-27
Relative humidity	EN 60068-2-6
Relative humidity	EN 60068-2-78
Ambient conditions	
Ambient temperature	-40 ... 60 °C (-40 ... 140 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Relative humidity	95 % non-condensing
Altitude	max. 2000 m
Shock resistance	shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
Vibration resistance	frequency range 10 ... 150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10 cycles
Mechanical specifications	
Degree of protection	IP20 when mounted on backplane
Connection	removable front connector with screw flange (accessory) wiring connection via spring terminals (0.14 ... 1.5 mm ²) or screw terminals (0.08 ... 1.5 mm ²)
Mass	approx. 90 g
Dimensions	16 x 100 x 102 mm (0.63 x 3.9 x 4 inch)
Data for application in connection with hazardous areas	
EU-type examination certificate	FIDI 23 ATEX 0078 X
Marking	Ⓜ II 3G Ex ec nC IIC T4 Gc
Galvanic isolation	
Output/power supply, internal bus	basic insulation according to IEC/EN 61010-1, rated insulation voltage 30 V DC
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0 EN IEC 60079-7 EN IEC 60079-15
International approvals	

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Technical Data

IECEX approval	
IECEX certificate	IECEX FIDI 23.0010X
IECEX marking	Ex ec nC IIC T4 Gc
General information	
System information	The module has to be mounted in appropriate backplanes (LB9***) in Zone 2 or outside hazardous areas. Here, observe the corresponding declaration of conformity. For use in hazardous areas (e. g. Zone 2 or Zone 22) the module must be installed in an appropriate enclosure.
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 .

Assembly

Front view

