

Relay output LB6006A2

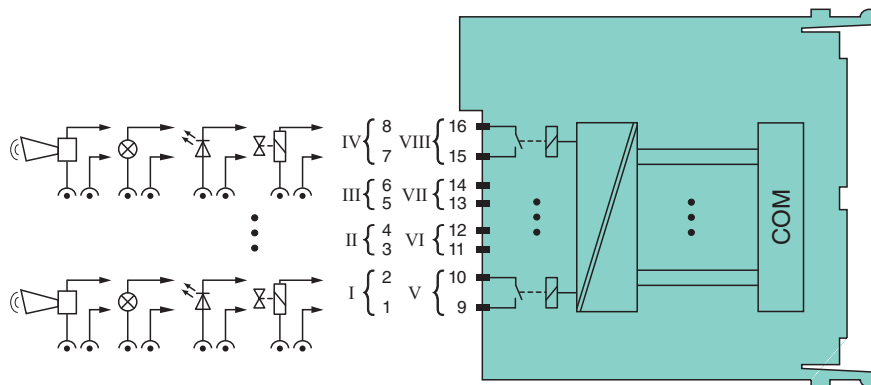
- 8-channel
- Installation in Zone 2 or safe area
- Positive or negative logic selectable
- Simulation mode for service operations (forcing)
- Permanently self-monitoring
- Output with watchdog



Function

The relay output features 8 independent channels.
The relay output can be used to switch solenoids. It can also perform general switching operations, such as switching auxiliary circuits.

Connection



Zone 2

Technical Data

Slots			
Occupied slots		2	
Supply			
Connection		backplane bus	
Rated voltage	U_r	12 V DC +4/-2 % , only in connection with the power supply LB9006C	
Power dissipation		2.4 W	
Power consumption		1.4 W	
Internal bus			
Connection		backplane bus	
Interface		manufacturer-specific bus to standard com unit	
Digital output			
Number of channels		8	
Field device interface			

Technical Data

Connection	Relay output
Connection	channel I: 1-2 NO; channel II: 3-4 NO; channel III: 5-6 NO; channel IV: 7-8 NO; channel V: 9-10 NO; channel VI: 11-12 NO; channel VII: 13-14 NO; channel VIII: 15-16 NO
Relay	
Switching voltage	30 V DC
Switching current	1 A DC
Switch power	30 W
Minimum load	5 V 10 mA
Electrical life	0.1 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 (1-8) line fault (lead breakage or short circuit) , 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	NE 21
Degree of protection	IEC 60529
Environmental test	EN 60068-2-14
Shock resistance	EN 60068-2-27
Vibration resistance	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. 160 g
Dimensions	32.5 x 100 x 102 mm (1.28 x 3.9 x 4 inch)
Height	100 mm
Width	32.5 mm
Depth	102 mm
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	

Technical Data

Directive 2014/34/EU	EN IEC 60079-0 EN IEC 60079-7 EN IEC 60079-15
International approvals	
ATEX approval	FIDI 23 ATEX 0078 X
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

