

## Digital Input LB1015A

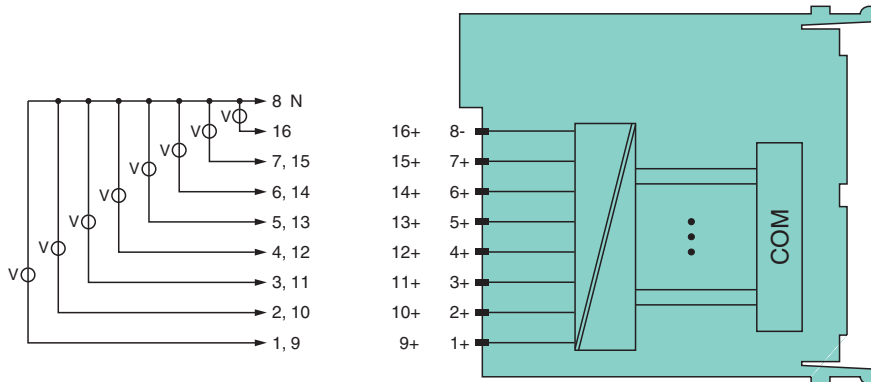
- 15-channel
- Active digital signal 24 V DC
- Installation in Zone 2 or safe area
- Positive or negative logic selectable
- Simulation mode for service operations (forcing)
- Permanently self-monitoring
- Module can be exchanged under voltage



### Function

The device accepts 24 V status information from the field.  
The inputs are galvanically isolated from the bus and the power supply (EN 60079-11).

### Connection



Zone 2

### Technical Data

<b>Slots</b>			
Occupied slots	2		
<b>Supply</b>			
Connection	backplane bus		
Rated voltage	$U_r$	12 V DC , only in connection with the power supplies LB9***	
Power dissipation	0.6 W		
Power consumption	0.6 W		
<b>Internal bus</b>			
Connection	backplane bus		
Interface	manufacturer-specific bus to standard com unit		
<b>Input</b>			
Input resistance	10 k $\Omega$		
<b>Digital input</b>			

## Technical Data

Number of channels	15
Connection	channel I: 1+, 16-; channel II: 2+, 16-; channel III: 3+, 16-; channel IV: 4+, 16-; channel V: 5+, 16-; channel VI: 6+, 16-; channel VII: 7+, 16-; channel VIII: 8+, 16-; channel IX: 9+, 16-; channel X: 10+, 16-; channel XI: 11+, 16-; channel XII: 12+, 16-; channel XIII: 13+, 16-; channel XIV: 14+, 16-; channel XV: 15+, 16-
Digital signals (active)	DC 24 V (30 V max.)
Switching point: ON	< 12 V
Switching point: OFF	> 2 V
Minimum pulse duration	40 ms
<b>Indicators/settings</b>	
LED indication	Power LED (P) green: supply Status LED (I) red: communication error
Coding	optional mechanical coding via front socket
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
<b>Conformity</b>	
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
Damaging gas	EN 60068-2-42
Relative humidity	EN 60068-2-78
<b>Ambient conditions</b>	
Ambient temperature	-40 ... 60 °C (-40 ... 140 °F) , 70 °C (non-Ex)
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 frequency range 5 ... 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance
Damaging gas	designed for operation in environmental conditions acc. to ISA-S71.04-1985, severity level G3
<b>Mechanical specifications</b>	
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 <sup>2</sup> ) or screw terminals (0.08 ... 1.5 mm <sup>2</sup> )
Mass	approx. 130 g
Dimensions	32.5 x 100 x 102 mm (1.28 x 3.9 x 4 inch)
<b>Data for application in connection with hazardous areas</b>	
Certificate	PF 08 CERT 1234 X
Marking	Ⓜ II 3 G Ex nA IIC T4 Gc
Galvanic isolation	
Input/power supply, internal bus	safe electrical isolation acc. to EN 60079-11, voltage peak value 375 V
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018+AC:2020 EN 60079-15:2010
<b>International approvals</b>	
IECEx approval	BVS 09.0037X
Approved for	Ex nA IIC T4 Gc
<b>General information</b>	

Release date: 2022-10-21 Date of issue: 2022-10-21 Filename: 254618\_eng.pdf

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

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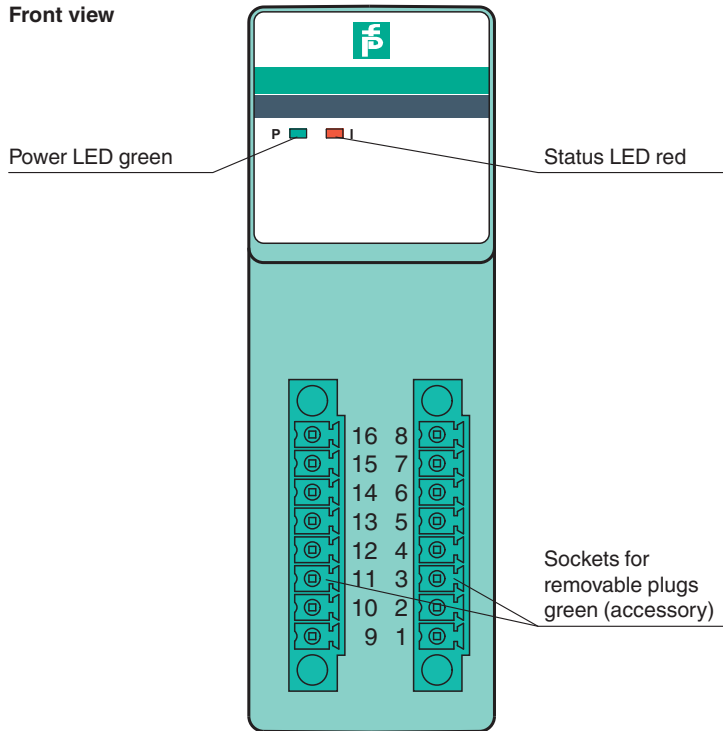
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**Technical Data**

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 <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

**Assembly**

Front view



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