

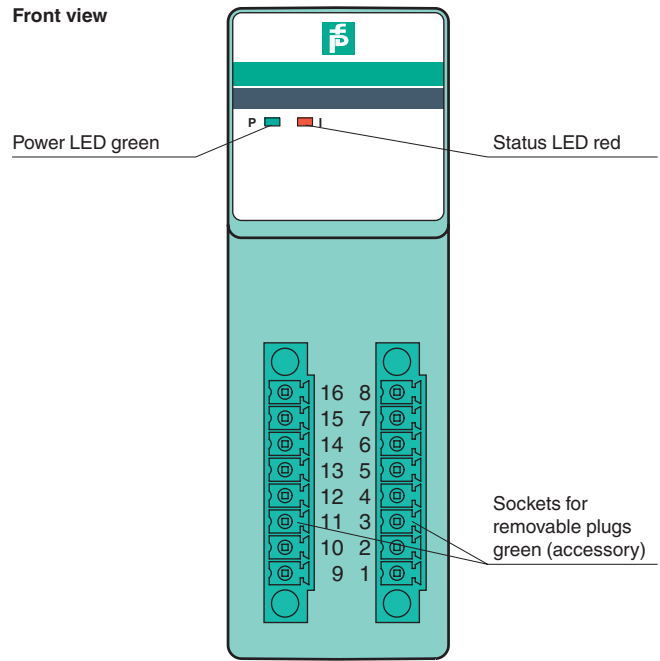
**Features**

- 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

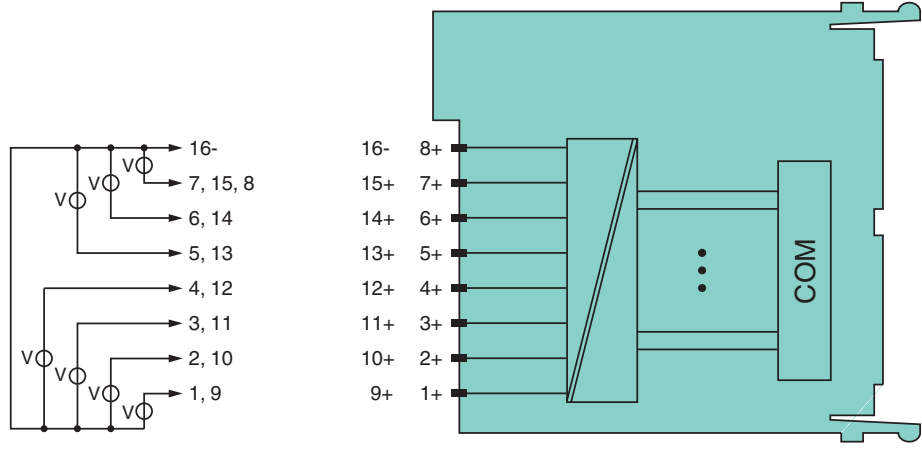
**Function**

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).

**Assembly**




**Connection**



Zone 2

Release date 2018-10-01 14:13 Date of issue 2018-10-01 254618\_eng.xml

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

<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>		
Number of channels		15
Connection		channel I: 9+, 8-; channel II: 10+, 8-; channel III: 11+, 8-; channel IV: 12+, 8-; channel V: 13+, 8-; channel VI: 14+, 8-; channel VII: 15+, 8-; channel VIII: 16+, 8-; channel IX: 1+, 8-; channel X: 2+, 8-; channel XI: 3+, 8-; channel XII: 4+, 8-; channel XIII: 5+, 8-; channel XIV: 6+, 8-; channel XV: 7+, 8-
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
<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 60068-2-56
<b>Ambient conditions</b>		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F) , 70 °C (non-Ex)
Storage temperature		-25 ... 85 °C (-13 ... 185 °F)
Relative humidity		95 % non-condensing
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 $\pm$ 0.075 mm/1 g; 10 cycles frequency range 5 ... 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration $\pm$ 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
<b>Directive conformity</b>		
Directive 2014/34/EU		EN 60079-0:2009 EN 60079-11:2007 EN 60079-15:2010
<b>International approvals</b>		
IECEx approval		BVS 09.0037X

Release date 2018-10-01 14:13 Date of issue 2018-10-01 254618\_eng.xml

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0002  
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222  
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
pa-info@sg.pepperl-fuchs.com

Approved for	Ex nA [ic] IIC T4 Gc
Marine approval	
Lloyd Register	15/20021
DNV GL Marine	TAA0000034
Bureau Veritas Marine	22449/B0 BV
<b>General information</b>	
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> .

Release date 2018-10-01 14:13 Date of issue 2018-10-01 254618\_eng.xml

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0002  
pa-info@us.pepperl-fuchs.com

Germany: +49 621 776 2222  
pa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
pa-info@sg.pepperl-fuchs.com