Features

- 1-channel
- Input for frequency, counter, direction of rotation
- Installation in Zone 2 or safe area
- Digital input max. 15 kHz
- Positive or negative logic selectable
- Simulation mode for service operations (forcing)
- · Line fault detection (LFD)
- · Permanently self-monitoring
- Module can be exchanged under voltage

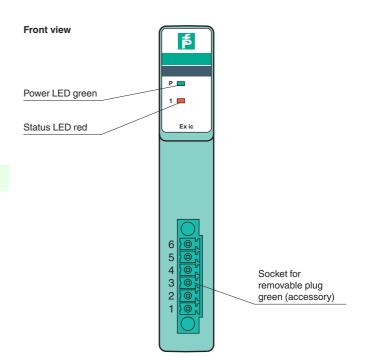
Function

The device accepts digital input signals of NAMUR sensors or mechanical contacts from the field.

Open or short circuit line fault alarms are detected.

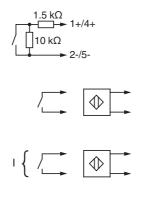
The inputs are galvanically isolated from the bus and the power supply (EN 60079-11).

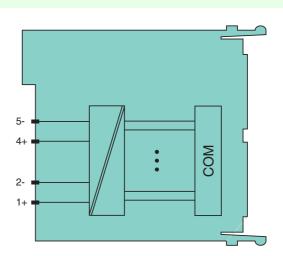
Assembly





Connection





Zone 2

ackplane bus 2 V DC , only in connection with the power supplies LB9*** 25 W 25 W 25 W 26 W 26 W 27 W 28 W 28 W 29 W 29 W 20
2 V DC , only in connection with the power supplies LB9*** 55 W 55 W 56 W 56 W 57 W 58 W 58 W 59 W 59 W 59 W 59 W 50 W
2 V DC , only in connection with the power supplies LB9*** 55 W 55 W 56 W 56 W 57 W 58 W 59 W
2 V DC , only in connection with the power supplies LB9*** 55 W 55 W 56 W 56 W 57 W 58 W 59 W
anufacturer-specific bus to standard com unit counter equency rection of rotation AMUR sensor Ilt-free contact tive binary signal 24 V DC annel I: 1+, 2-; direction: 4+, 5- cc. to EN 60947-5-6 (NAMUR) 2 2.1 mA / ± 0.2 mA 2 V
anufacturer-specific bus to standard com unit counter equency rection of rotation AMUR sensor AIt-free contact tive binary signal 24 V DC annel I: $1+$, $2-$; direction: $4+$, $5-$ cc. to EN 60947-5-6 (NAMUR) 2 2.1 mA / \pm 0.2 mA 2 V Ω In be switched on/off for each channel via configuration tool echanical switch with additional resistors (see connection diagram) proximity switches without additional
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echanical switch with additional resistors (see connection diagram) proximity switches without additional
360Ω
0.35 mA
n frequency + counter mode: 12.5 ms ; otherwise 20 μs
15 kHz ; in frequency + counter mode 40 Hz
TO THE TIME OF THE OF T
ower LED (P) green: supply
atus LED (1) red: line fault
tional mechanical coding via front socket
N 61326-1
2 1
C 60529
V 60068-2-14
V 60068-2-27
V 60068-2-6
V 60068-2-42
N 60068-2-56
100000 £ 00
0. 00 00 (4. 140 05) 70 00 (202 5.)
0 60 °C (-4 140 °F) , 70 °C (non-Ex)
5 85 °C (-13 185 °F)
i % non-condensing
ock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
equency range 10 150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration ± 0.075 mm/1 g; 10
cles equency range 5 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration \pm 1 mm/0.7 g; 90 minutes at
ich resonance
esigned for operation in environmental conditions acc. to ISA-S71.04-1985, severity level G3
20 when mounted on backplane
movable front connector with screw flange (accessory)
ring connection via spring terminals (0.14 1.5 mm ²) or screw terminals (0.08 1.5 mm ²)
prox. 90 g
s x 100 x 102 mm (0.63 x 3.9 x 4 inch)
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Marking	⟨ II 3 G Ex nA [ic] 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 60079-0:2009 EN 60079-11:2007 EN 60079-15:2010
International approvals	
ATEX approval	PTB 03 ATEX 2042
IECEx approval	BVS 09.0037X
Approved for	Ex nA [ic] IIC T4 Gc
Marine approval	
Lloyd Register	15/20021
DNV GL Marine	TAA0000034
Bureau Veritas Marine	22449/B0 BV
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-