

Features

- Output 0/4 mA ... 20 mA or 0/2 V ... 10 V, 2 trip amplifiers
- Galvanic isolation between input, output, power supply and contact output
- Configuration and commissioning with configuration software

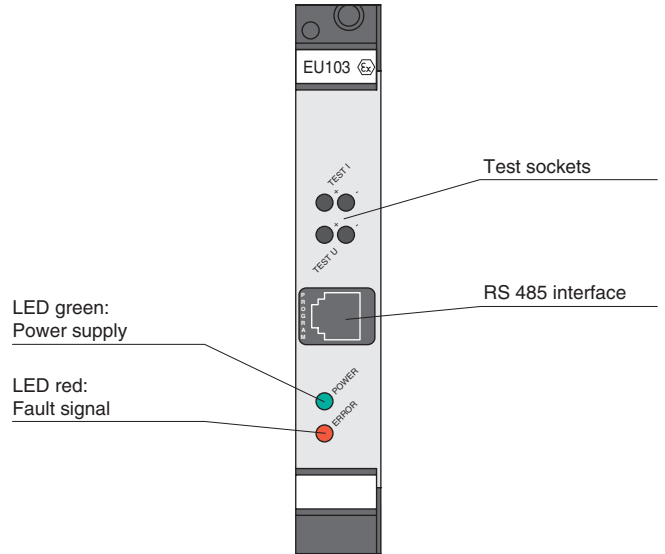
Function

The device can be used for converting frequency to current and for galvanic isolation of the frequency signal from hazardous area to safe area.

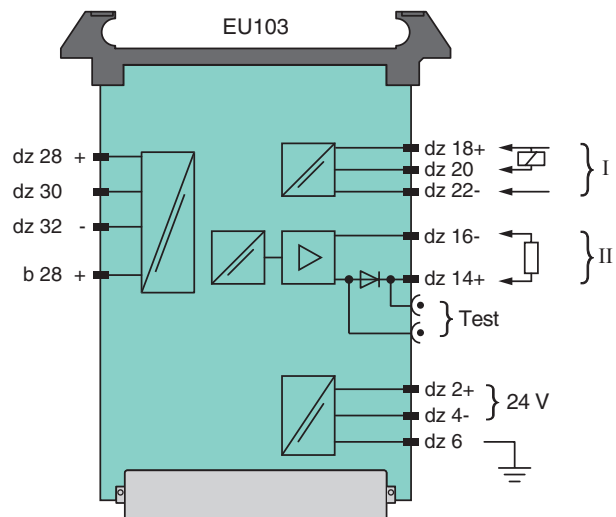
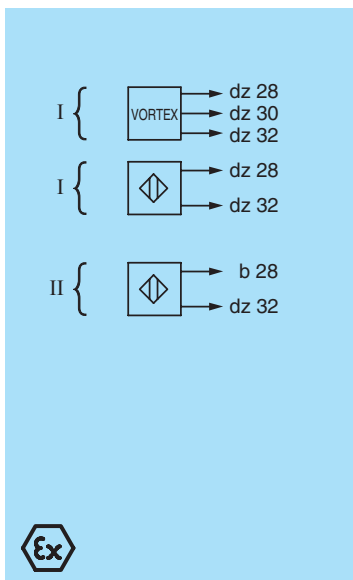
In additional use of the 2nd input the rotating direction can be analyzed.

Assembly


Front view



Connection



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Supply	
Connection	dz2+, dz4-, dz6 (PE)
Rated voltage	20 ... 30 V DC 20.4 ... 24.6 V AC
Input	
Connection	Input I NAMUR: dz28+, dz32-, VORTEX: dz28+, dz30, dz32- Input II NAMUR: b28+, dz32- (rotating direction detection)
Input frequency	0 ... 10 kHz
Output	
Transistor	30 V/50 mA short-circuit proof, 2 kHz max., mono stable
Output I	transistor output
Connection	dz18+, dz20, dz22-
Switching voltage	30 V/50 mA, short-circuit protected
Output frequency	2 kHz max, mono stable
Output II	Analog output
Connection	dz16-, dz14+
Voltage output range	0/4 ... 20 mA (0/2 ... 10 V)
Indicators/settings	
Display elements	LED green: Power on
Directive conformity	
Electromagnetic compatibility	
Directive 2004/108/EC	The device has been used for the same applications for several years. It therefore features an appropriate electromagnetic field immunity. The device must not be used in new plants.
Conformity	
Electrical isolation	EN 50178
Protection degree	IEC 60529
Ambient conditions	
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-40 ... 80 °C (-40 ... 176 °F)
Relative humidity	< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
Mechanical specifications	
Protection degree	IP20 (installed in 19" rack)
Connection	plug connector acc. to DIN 41612, 32-pin, type F, rows d and z provided
Mass	approx. 250 g
Dimensions	22 x 143 x 193 mm (0.9 x 5.6 x 7.6 in)
Construction type	Eurocard 100 x 160 mm (3.9 x 6.3 in) acc. to DIN 41494, front panel 4TE, mountable in 19" rack
Coding	02/05/12 (see "Notes")
Data for application in connection with Ex-areas	
EC-Type Examination Certificate	TÜV 00 ATEX 1614 X
Group, category, type of protection	 II (1)GD [EEx ia] IIC
Voltage U_o	NAMUR 8.6 V VORTEX 26.3 V
Current I_o	NAMUR 19 mA VORTEX 93 mA
Power P_o	NAMUR 40 mW VORTEX 610 mW
Internal capacitance C_i	NAMUR 5 nF VORTEX 3 nF
General information	
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 .

Ordering information

Input	Output	Imp. Output	Ex protection	Model number
NAMUR	-	1:1 impulses	ia/ib	GHG 121 2101 C2006
VORTEX	-	1:1 impulses	ia/ib	GHG 121 2151 C2006
NAMUR	0/4 ... 20 mA	1:1 impulses*	ia/ib	GHG 121 2101 C1006
VORTEX	0/4 ... 20 mA	1:1 impulses*	ia/ib	GHG 121 2151 C1006

*Pulse output switchable between trip value, rotating direction, lead monitoring

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Notes

