

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

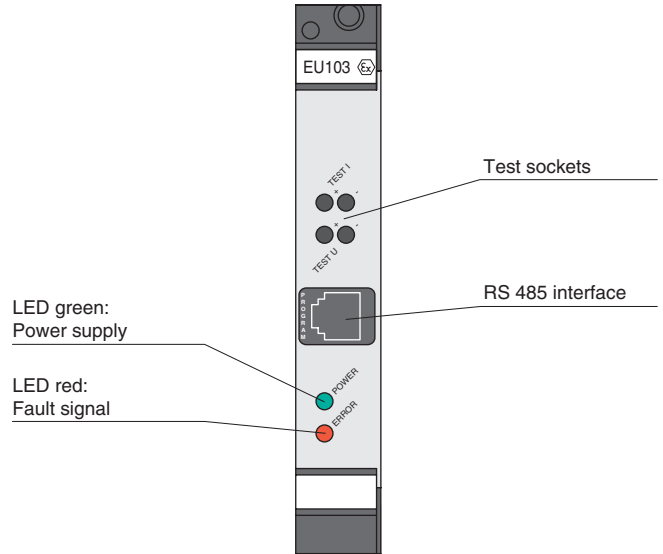
Function

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

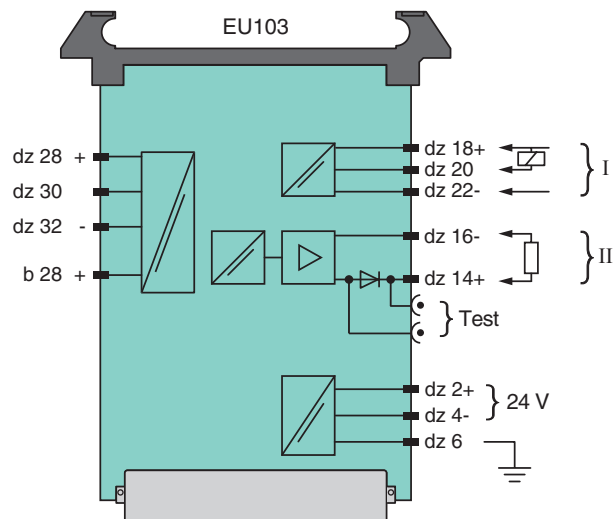
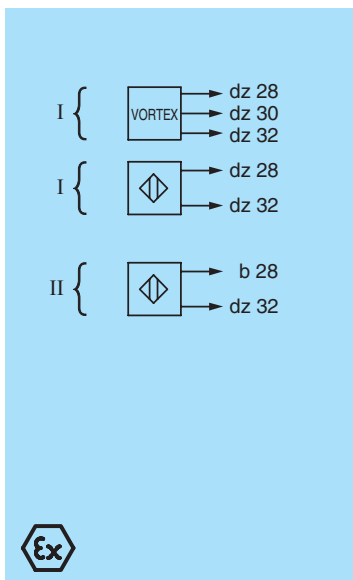
In additional use of the 2nd input the rotating direction can be analyzed.

Assembly

Front view




Connection



Release date 2017-08-24 14:49 Date of issue 2017-08-24 14:28:25_eng.xml

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

Supply		
Connection		dz2+, dz4-, dz6 (PE)
Rated voltage	U_r	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		
Galvanic isolation		EN 50178
Degree of protection		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		
Degree of protection		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 inch)
Construction type		Eurocard 100 x 160 mm (3.9 x 6.3 inch) acc. to DIN 41494, front panel 4TE, mountable in 19 inch rack
Coding		02/05/12 (see "Notes")
Data for application in connection with hazardous areas		
EU-Type Examination Certificate		TÜV 00 ATEX 1614 X
Marking		 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 .

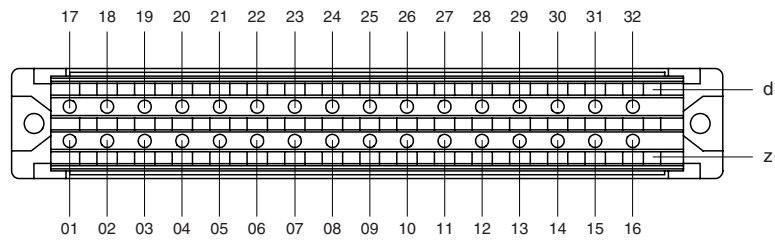
Ordering information

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

Release date 2017-08-24 14:49 Date of issue 2017-08-24 t42825_eng.xml

Notes



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