GEORGIN
Sureté des Procédés Industriels

bzg788+
Double barrier, 1 channel

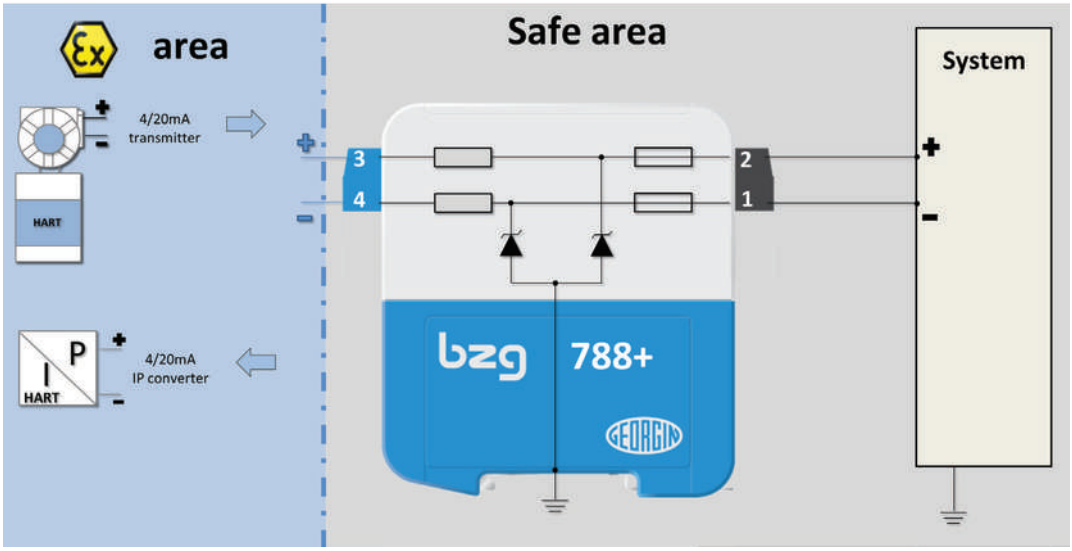
Function*

Zener barrier to insulate process signals:

- 4/20mA transmitters
- 4/20mA I/P positionners
- 4/20mA displays

*Non-exhaustive list. Contact us for more details

Type scheme



Metrological parameters

U(na) (V)	I(na) (mA)	Terminals	I(t) (µA)	U(e) (V)	Terminals	U(a) (V)	Ifm (mA)	RL (Ω)	Tol. +/- (%)	Pol.
24	50	2/T 1/T	10 10	24.90 8.00	2/3 1/4	26.8 9.8	50 50	311.3 62.3	5 5	+

U(na): Maximum use voltage in Ex nA [ia] for a T4 class of temperature:-20°C / +60°C
I(na): Maximum use current in Ex nA [ia] for a T4 class of temperature:-20°C / +60°C
U(e): Voltage for which a leakage current lower or equal to I(t) is assured
U(a): Maximum voltage input
RL: Line resistance
Tol: Tolerance of line resistance
Ifm: Maximum current that can pass through the barrier (without destruction)
T: Ground
/: On

Intrinsic safety parameters

Terminals	Ro (Ω)	Uo (V)	Io (mA)	Po (mW)	Lo IIC (µH)	Co IIC (µF)	L/R IIC (µH/Ω)	Lo IIB (µH)	Co IIB (µF)	L/R IIB (µH/Ω)
3/T	285	27.30	95.79	653.76	3875	0.088	54.39	15500.01	0.683	217.54
4/T	48.48	9.56	197.21	471.09	914.18	3.6	75.47	3656.74	26	301.90
3/4	**333.45**	**28**	**83.97**	**587.79**	**5042.58**	**0.083**	**60.49**	**20170.32**	**0.65**	**241.96**
3/T//4/T	41.41	10.15	245.11	621.96	591.82	2.75	57.17	2367.29	18.70	228.67

T: Ground //: Parallel /: On

FC-BZG788+-EN-25-11-2011 - Subject to modifications due to technical advances

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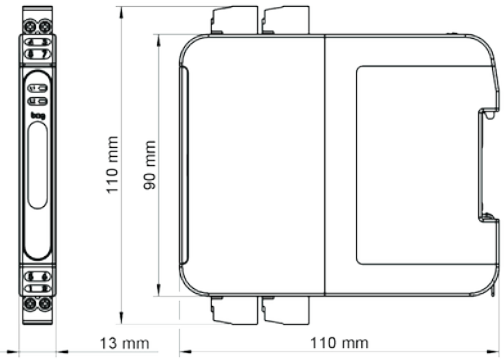
Certifications

ATEX certificate:	11ATEX0024X
IECEx certificate:	INE 11.0009X
Marking:	CE0081 II (1) GD [Ex ia Ga] IIC ou [Ex ia Ga] IIB ou [Ex iaD Da] IIIC CE0081 II 3 (1) G Ex nA [ia Ga] IIC T4 Gc
ATEX	EN 60079-0 / EN 60079-11 / EN 60079-15 / EN 61241-11 / EN 61241-0
IECEx	IEC 60079-0 / IEC 60079-11 / IEC 60079-15 / IEC 61241-11 / IEC 61241-0
C.E.M.	EN 61326-1 & IEC61000-6-2
D.B.T.	NFC 15-100
SIL	EN 61508 (SIL 2 or SIL 3 according to application)

Mechanical features

Material	Polycarbonate
Weight	≈200g
Mounting	On Din-rail
Stockage T°	-25 to 70°C
Operating T°	-20° to 60°C
Relative humidity	5 to 80% without condensation
Protection index	IP 20

Size:



Electrical wiring

Electrical wiring	Removable screw terminals for 0.2 to 2.5mm² cable
Marking	Blue terminals for the ATEX area Black terminals for the safe area
Ground wiring	Fix screw terminal for 4mm² cable

Location

Safe area
Zone 2 in an IP 54 housing (minimum)

Options

Led in front: no
Removable lable holder: yes
Din-rail isolator: contact us

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