Sureté des Procédés Industriels

bzg789+
Double barrier, 2 channels

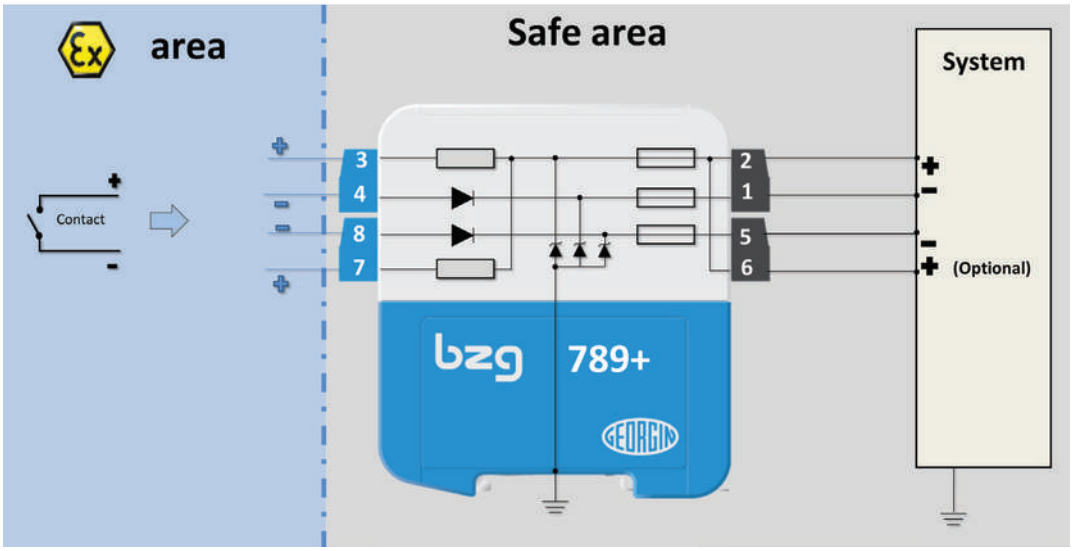
Function*

Zener barrier to insulate process signals:

- Contacts

*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.
20	35	2/T 1/T 5/T 6/T	10 10 10 10	24.90 24.90 24.90 24.90	2/3 1/4 6/7 5/8	26.8 26.8 26.8 26.8	50 50 50 50	658.3 0.9V+11.3Ω 658.3 0.9V+11.3Ω	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	589	27.30	46.35	316.34	16550.56	0.088	112.4	66202.25	0.683	449.59
7/T	589	27.30	46.35	316.34	16550.56	0.088	112.4	66202.25	0.683	449.59
4/T & 8/T	-	0.00	0.00	0.00	-	-	-	-	-	-
3//7/T	294.5	27.30	92.70	632.67	4137.64	0.088	56.2	16550.56	0.683	224.80
3/4 & 8/7	**588.98**	**28**	**47.54**	**332.77**	**15733.38**	**0.083**	**106.85**	**62933.51**	**0.650**	**427.39**
3//7/4 & 3//7/8	294.49	28	95.08	665.53	3933.34	0.083	53.42	15733.38	0.650	213.70

T: Ground //: Parallel /: On

FC-BZG789+-EN-25-11-2011 - Subject to modifications due to technical advances

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bzg789+

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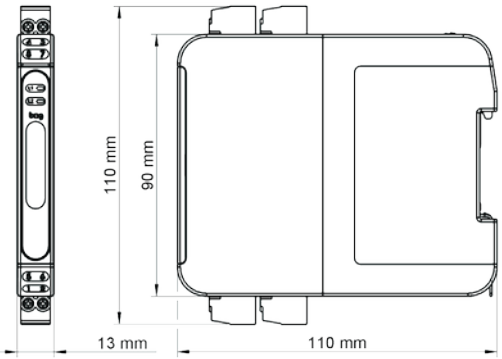
Certifications

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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