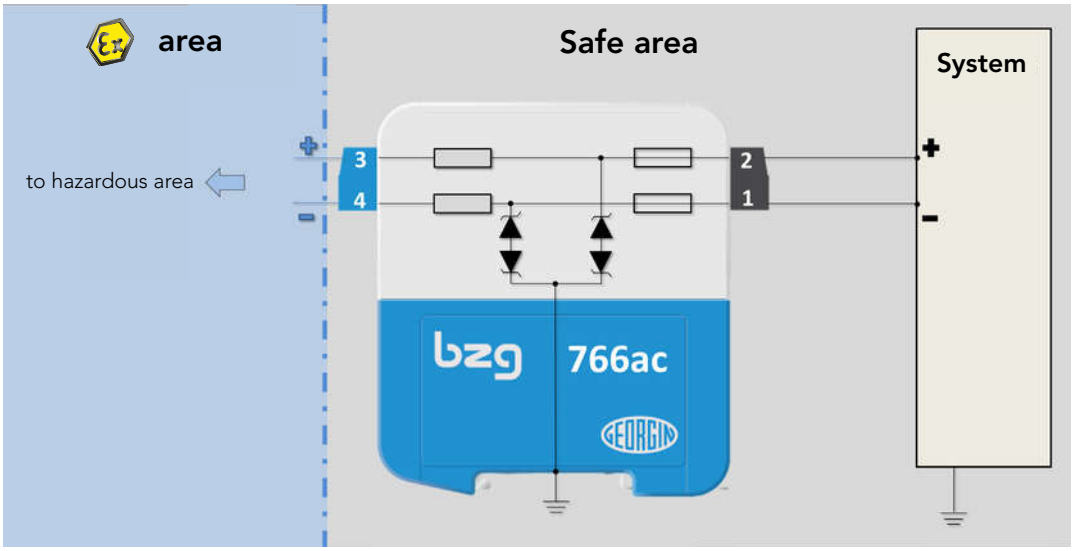
Sureté des Procédés Industriels

bzg766AC
Double barrier, 1 channel

Function

Zener barrier to insulate process signals

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.
10	70	2/T 1/T	10 10	10.10 10.10	2/3 1/4	11 11	100 100	153.6 153.6	5 5	AC

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 guaranteed
U(a) : Maximum input voltage
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	142.50	11.2	78.6	220	5755	1.84	161	23022	12.6	646
4/T	142.50	11.2	78.6	220	5755	1.84	161	23022	12.6	646
3/4	**285**	**22.4**	**78.6**	**440**	**5755**	**0.156**	**80**	**23022**	**1.09**	**323**
3/T//4/T	71.25	11.2	157.1	440	1438	0.156	80	5762	1.09	323

T: Ground //: Parallel /: On

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GEORGIN France : Tél : +33 (0)1 46 12 60 00 - Fax : +33 (0)1 47 35 93 98 - regulateurs@georgin.com
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www.georgin.com

bzg766AC

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Sureté des Procédés Industriels

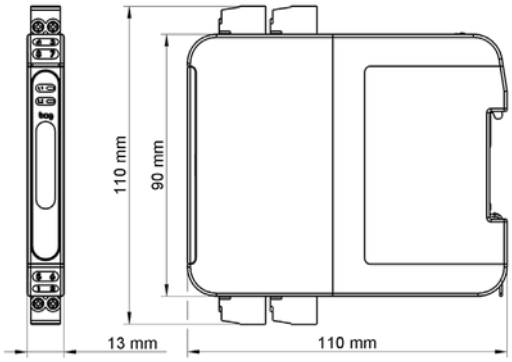
Certifications

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	CEI 60079-0 / CEI 60079-11 / CEI 60079-15 / CEI 61241-11 / CEI 61241-0
C.E.M.	EN 61326-1 & CEI61000-6-2
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
Storage 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 terminals for 4mm² cable

Location

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

Options

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

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