Sureté des Procédés Industriels

# bzg787+
# Double barrier, 1 channel

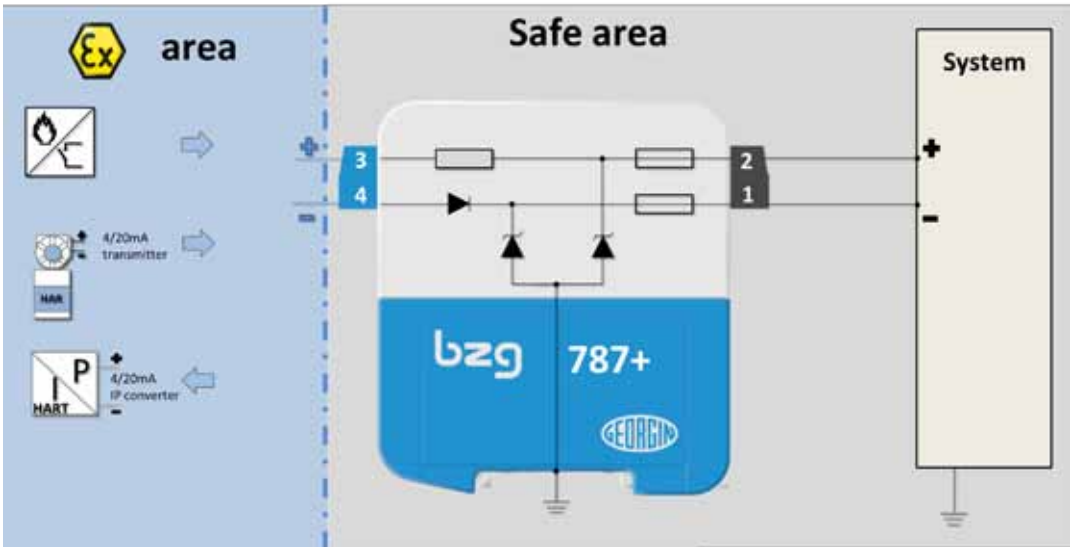
## Function*

Zener barrier to insulate process signals:

- 4/20mA transmitters
- 4/20mA I/P positionners
- Smoke detectors
- 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 | 45 | 2/T<br>1/T | 10<br>10 | 24.90<br>24.90 | 2/3<br>1/4 | 26.8<br>26.8 | 50<br>50 | 341.3<br>0.9V+11.3Ω | 5<br>- | + |

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 | 313.5 | 27.30 | 87.08 | 594.33 | 4688.75 | 0.088 | 59.82 | 18755.01 | 0.683 | 239.30 |
| 4/T | - | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - |
| **3/4** | **313.51** | **28** | **89.31** | **625.20** | **4457.24** | **0.083** | **56.87** | **17828.98** | **0.65** | **227.48** |
| 3//4/T | 313.5 | 27.30 | 87.08 | 594.33 | 4688.75 | 0.088 | 59.82 | 18755.01 | 0.683 | 239.30 |

T: Ground //: Parallel /: On

FC-BZG787+-EN-26-02-2015 - Subject to modifications due to technical advances

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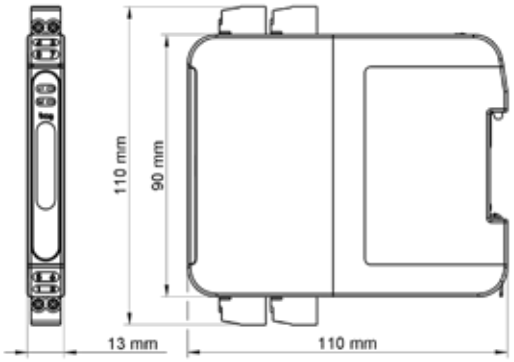
## Certifications

| | |
|---|---|
| **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<br>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<br>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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