

# BZB10 Zener Barrier

3-channel safety barrier for Ex-proof devices



## Application Areas

- Intrinsically safe I/O connection to Ex-proof devices in Zone 0/1/2 or Zone 20/21/22 explosive atmospheres
- Intrinsically safe I/O connection to Ex-sensors, Ex-actuators, Ex-solenoid valves, etc.

## Benefits

- 3-channel in one housing
- Compact, space saving design
- Easy install on a 35 mm DIN rail
- Supports a wide range of working voltages

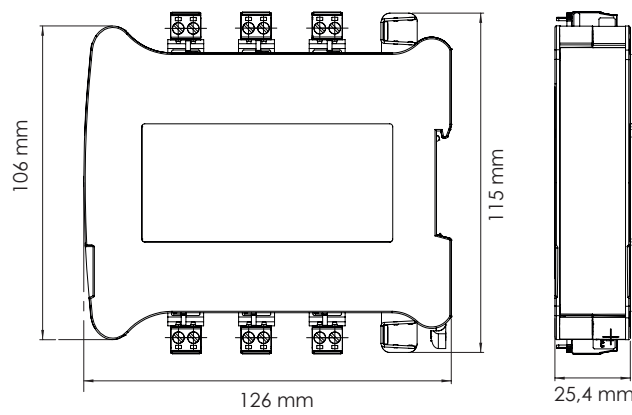
BZB10 Zener barrier is a three-channel, DC type, positive polarity, intrinsically safe safety barrier that provides a cost-effective solution for I/O connection to Ex-sensors, Ex-actuators, Ex-solenoid valves and similar devices operating in explosive atmospheres.

BZB10 Zener barrier is installed in a safe area and protects the connected device in an explosive atmosphere rated as Zone 0/1/2 or Zone 20/21/22 by preventing energy transfer from the safe area to the explosive atmosphere above the approved limit value.

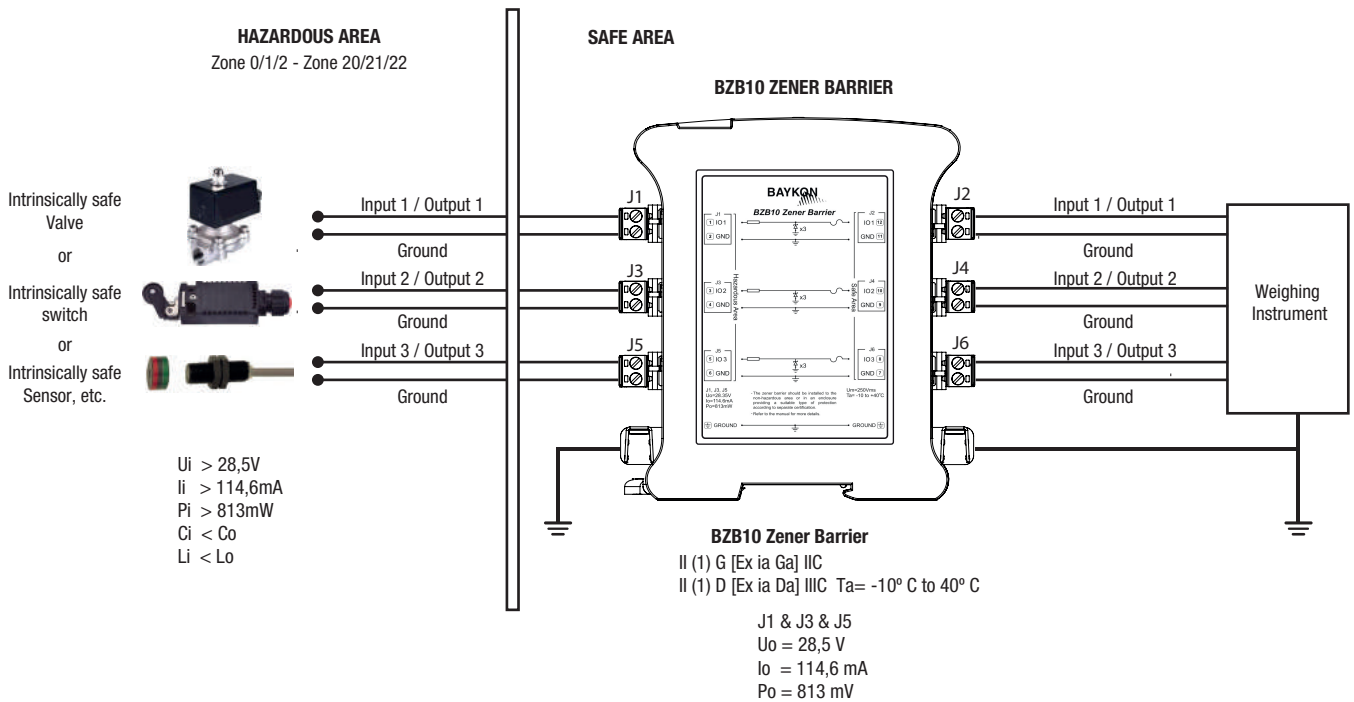
# Technical Specifications

Model	BZB10
ATEX approval	II (1)G [Ex ia Ga] IIC -10°C ≤ Ta ≤ +40°C II (1)D [Ex ia Da] IIIC -10°C ≤ Ta ≤ +40°C
Normative references	EN IEC 60079-0:2018 (Explosive atmospheres Part 0: Equipment - General requirements) EN 60079-11:2012 (Explosive atmospheres Part 11: Equipment protection by intrinsic safety "I")
Installation area	Safe Area
Working voltage (max.)	25,6 VDC
Series resistance	250 Ω
Operation temperature / Humidity	-10°C to 40°C / maximum 90% RH without condensation
Housing / IP rating	Made of PC-ABS plastic complying with UL94 V0 flammability rating, mounting on 35mm DIN rail / IP20 rated
Conductor cross-section	0,2 mm <sup>2</sup> (24 AWG) to 2,5 mm <sup>2</sup> (14 AWG)
Ground cable cross-section (min.)	4 mm <sup>2</sup> (12 AWG)

# Dimensions (mm)



# Connection Diagram



(Specifications are subject to change without notice. 01 - 07 / 2024)