

ZBA1S

ATEX/IECEX TRIPLE ZENER BARRIER FOR LOAD CELLS "ZBA1S"



The Zener Barrier ZBA1S is the perfect solution for the connection between a weighing terminal and a weight receiver system in the ATEX ZONE. ZBA1S integrates three barriers in one, protecting the excitation line, signal and sense. This feature makes the installation easier, especially in small spaces. This saves time and money.

**The best solution
for advanced industrial
applications**

TECHNICAL FEATURES

- Three channels passive zener barrier for power supply, reference and signal. Ex marking: ATEX II (1)G, II (1)D, I (M1) IECEx [circuit(s) in zone 0/1/2]
- Protection: [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I ($-20\text{ }^{\circ}\text{C} \leq T_{amb} \leq +60\text{ }^{\circ}\text{C}$)
- Equipped with 3 channels for the protection of the Signal line (CN1/CN4), the Excitation line (CN3/CN6) and the Sense line, for improved signal stability.
- "SLIM" type case, iper-compact, for DIN rail installation.
- Temperature of usage: $-20^{\circ}\text{C} \div +60^{\circ}\text{C}$.
- Storage temperature: $-25^{\circ}\text{C} \div +70^{\circ}\text{C}$
- Rating: 14Vrms differential and 8Vrms through earth for CN3 connector, 20Vrms for the CN1 & CN2
- Maximum Security Voltage(U_m): 250Vrms
- Maximum Security Current (current interruption capability): 1500A
- Degree of protection: IP20
- Excitation, Signal and Sense Marking: ATEX II (1)G, II(1)D, I(M1)
- Protection: [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I ($-20^{\circ}\text{C} \leq T_{amb} \leq +60^{\circ}\text{C}$)

Please refer to the User Manual for more information.

- NOTE:
- Can connect up to 4 Load Cell of 350 Ohm.
- Combined use of one or more Zener Barriers (1) GD [Ex ia], implies that the Atex marking of the set of barriers must be upgraded (2) GD [Ex ib], as written in the EN 60079-14 normative.

KZBA CASE FEATURES

- Material: ABS
- Glands: n.4, ATEX certified.
- Protection for Case + Barrier:
 - for gas:*
 - ATEX II 3(1) Ex nAa [ia Ga] IIC T4 Gc ($-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$)
 - for dust:*
 - ATEX II 3(1)D Ex tb [ia Da] IIIC T130°C Dc IP65 ($-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$).

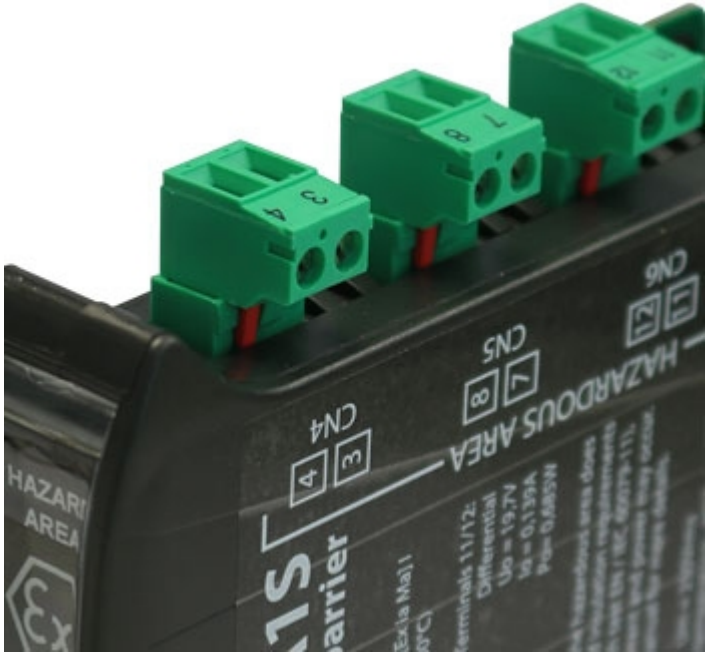
DETAIL 1



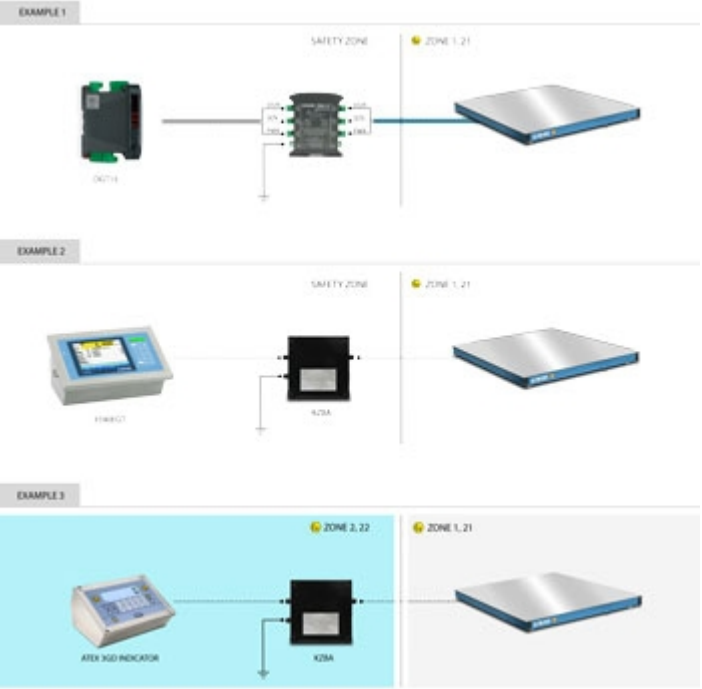
DETAIL 2



DETAIL 3



DETAIL 4





DINI ARGEO
FRANCE sarl
France

DINI ARGEO
GMBH
Germany

DINI ARGEO
UK Ltd
United Kingdom

DINI ARGEO WEIGHING
INSTRUMENTS Ltd
China

DINI ARGEO
OCEANIA
Australia



COMPANY HEADQUARTERS

Via Della Fisica, 20
41042 Spezzano di Fiorano Modena • Italy
Tel. +39.0536 843418

SERVICE ASSISTANCE

Via Dell'Elettronica, 15
41042 Spezzano di Fiorano Modena • Italy
Tel. +39.0536 921784

SALES AND TECHNICAL ASSISTANCE SERVICE