

TM	IECEx Certificate of Conformity					
Certificate No.:	IECEx BAS 17.0109X		Page 2 of 4			
Date of issue:	2021-10-18		Issue No: 2			
Manufacturer:	Sensonics Limited Northbridge Road Berkhamstead Hertfordshire HP4 1EF United Kingdom					
Additional manufacturing locations:						
This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended						
STANDARDS : The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards						
IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements Edition:7.0						
<b>IEC 60079-11:2011</b> Edition:6.0	Explosive atmospheres - Pa	art 11: Equipment protection by intrin	isic safety "i"			
This Certificate <b>does not</b> indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.						
<b>TEST &amp; ASSESSMENT REPORTS:</b> A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:						
Test Reports:						
GB/BAS/ExTR17.02	92/00 GB/B/	AS/ExTR18.0235/00	GB/BAS/ExTR21.0174/00			
Quality Assessment Report:						

GB/BAS/QAR17.0019/02



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#### EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The PZ Series Vibration Transducer is designed to convert a mechanical vibration into an electrical output signal (mV or 4-20mA).

It comprises a piezoelectric crystal and various electronic components (depending on the variant) mounted on two printed circuit boards, encapsulated as an inner assembly within a metal enclosure which may differ in mounting arrangement. Electrical connections are made to the free-end of an integral cable or a 2-pin connector.

The variants and their outputs covered by this certificate are as follows: PZS 100mV/g Accelerometer PZV 4mV/mm.s-1 Velocity Transducer PZDC 4-20mA Velocity Transducer

Each variant may be enclosed within 3-point mounting base enclosure, captive mounting bolt enclosure or threaded base enclosure.

#### **INPUT PARAMETERS** PZS

			Connector			Integral cable		
Ui	=	28.5V	Ci	=	30nF	Ci*1	=	30nF + 220pF/m
I <sub>i</sub>	=	114mA	Li	=	0	Li	=	0 + 0.83µH/m
P <sub>i</sub>	=	0.66W						

#### PZV / PZDC

Group I

			Connector		Integ	able		
Ui	=	28.5V	Ci	=	4.7nF	Ci*1	=	4.7nF + 220pF/m
l <sub>i</sub>	=	114mA	Li	=	0	Li	=	0 + 0.83µH/m
Pi	=	0.66W						
* <sup>1</sup> Subject to the following limits:								

Group IIC 78nF Group IIB / IIIC 627nF Group IIA 2.05µF

### SPECIFIC CONDITIONS OF USE: YES as shown below:

3.6µF

1. The flying lead terminations, where applicable, must be afforded a degree of protection of at least IP20.



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### DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Variation 2.1

This issue of the certificate confirms the current design meets the requirements of IEC 60079-0:2017 and allows minor changes to the marking label.

ExTR: GB/BAS/ExTR21.0174/00	File Reference: 21/0340
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