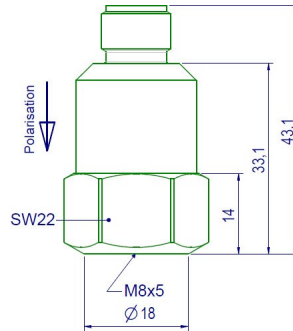


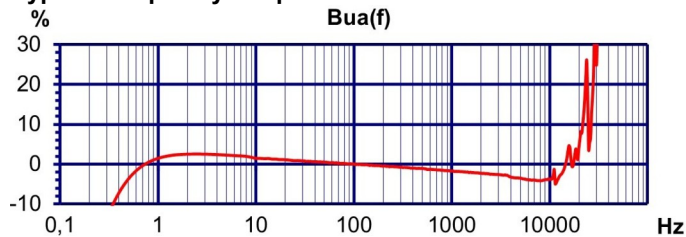
Properties

- Rugged industrial design with IP68
- Fully insulated case, double shielding for best EMI protection
- Includes electronic data sheet (TEDS; IEEE 1451.4; Template 25 w. DS2431)
- M12 connector for easy on-site installation, improved replacement for obsolete MIL-C-5015 connectors
- Wide frequency range (23kHz/3dB)
- Low temperature dependence
- Economic price



Piezo design	Shear design	
Output	IEPE	
Voltage sensitivity	10	mV/g
Sensitivity tolerance	5	%
Measurement range, pos./neg.	600	g
Destruction limit	5000	g
Transverse sensitivity	<5	%
Lower frequency limit (3 dB)	0,2	Hz
Upper frequency limit (3 dB)	23000	Hz
Lower frequency limit (10 %)	0,4	Hz
Upper frequency limit (10 %)	16000	Hz
Lower frequency limit (5 %)	0,5	Hz
Upper frequency limit (5 %)	10000	Hz
Resonant frequency	>42	kHz
Resonance amplitude	25	dB
Constant current supply	2 -16	mA
Bias voltage at 4 mA	12,5 – 14	V
Output impedance	<80	Ω
Residual noise; wide band; RMS	<1500 (0,5 - 20000 Hz)	µg
Noise density 1 Hz	300	µg/√Hz
Noise density 10 Hz	80	µg/√Hz
Noise density 100 Hz	12	µg/√Hz
Noise density 1000 Hz	8	µg/√Hz
Operating temperature range	-40 - 120	°C
Temperature response of sensitivity	see graph	
	±1 (-10 - 80 °C)	%
	+2/-6 (-40 - 120 °C)	%
Temperature transient sensitivity	0,005	m/s²/K
Magnetic field sensitivity	3,5	m/s²/T
Weight without cable	58	g
Case material	Stainless steel	
Connector direction	axial	
Connector	Binder 713	
Mounting	M8	
Isolated mounting	yes (4 GΩ)	
IP code	IP68	

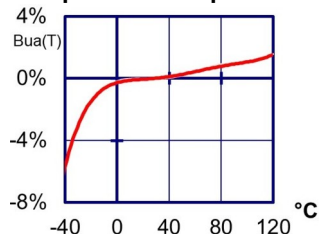
Typical Frequency Response



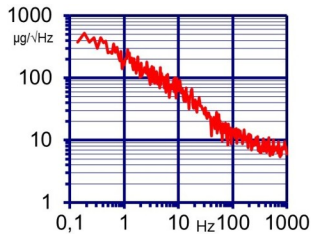
Contact Arrangement



Temperature Response



Noise Characteristics



Connection Accessories

- 080G: Plug Binder 713 (female) with screw terminals, IP67; straight
- 080W: Plug Binder 713 (female) with screw terminals, IP67; angled
- 085-B713G-PIG-5: IEPE cable; 5 m; Binder 713; straight; female. to pig tail; 80 °C; Ø5
- 085-B713W-PIG-5: IEPE cable; 5 m; Binder 713; angled; female to pig tail; 80 °C; Ø5
- 085-B713G-BNC-5: IEPE cable; 5 m; Binder 713; straight; female. to BNC; 80 °C; Ø5
- 085-B713W-BNC-5: IEPE cable; 5 m; Binder 713; angled; female. to BNC; 80 °C; Ø5

Mounting Accessories

- 043: Mounting stud; M8 x 10
- 229: Adhesive pad; conductive; M8; Ø25; >250 °C
- 208: Rare earth magnetic base; M8; Ø30; 120 °C
- 230: Triaxial mounting cube; M8; □34

Notice: This sensor is supplied with a list protocol showing its individually measured sensitivity.

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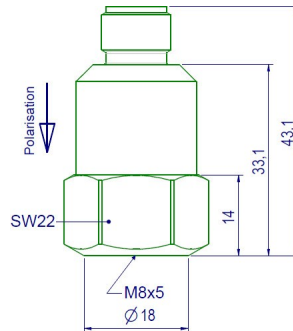
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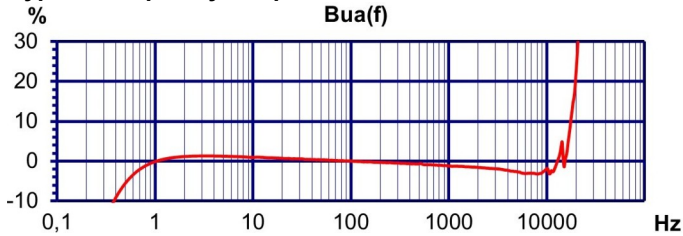
Properties

- Rugged industrial design with IP68
- Fully insulated case, double shielding for best EMI protection
- Includes electronic data sheet (TEDS; IEEE 1451.4; Template 25 w. DS2431)
- M12 connector for easy on-site installation, improved replacement for obsolete MIL-C-5015 connectors
- Wide frequency range (20kHz/3dB)
- Low temperature dependence
- Economic price
- Successor model of KS84.100



Piezo design	Shear design	
Output	IEPE	
Voltage sensitivity	100	mV/g
Sensitivity tolerance	5	%
Measurement range, pos./neg.	60	g
Destruction limit	5000	g
Transverse sensitivity	<5	%
Lower frequency limit (3 dB)	0,2	Hz
Upper frequency limit (3 dB)	20000	Hz
Lower frequency limit (10 %)	0,4	Hz
Upper frequency limit (10 %)	14000	Hz
Lower frequency limit (5 %)	0,5	Hz
Upper frequency limit (5 %)	10000	Hz
Resonant frequency	>32	kHz
Resonance amplitude	25	dB
Constant current supply	2 – 16	mA
Bias voltage at 4 mA	12,5 – 14	V
Output impedance	<80	Ω
Residual noise; wide band; RMS	<200 (0,5 - 20000 Hz)	µg
Noise density 1 Hz	30	µg/√Hz
Noise density 10 Hz	8	µg/√Hz
Noise density 100 Hz	1,5	µg/√Hz
Noise density 1000 Hz	1	µg/√Hz
Operating temperature range	-40 - 120	°C
Temperature response of sensitivity	see graph	
	±1 (-10 - 80 °C)	%
	+2/-4 (-40 - 120 °C)	%
Temperature transient sensitivity	0,005	m/s²/K
Magnetic field sensitivity	1	m/s²/T
Weight without cable	61	g
Case material	Stainless steel	
Connector direction	axial	
Connector	Binder 713	
Mounting	M8	
Isolated mounting	yes (4 GΩ)	
IP code	IP68	

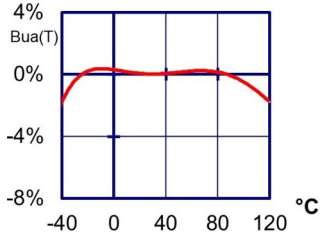
Typical Frequency Response



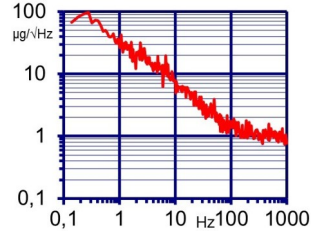
Contact Arrangement



Temperature Response



Noise Characteristics



Connection Accessories

- 080G: Plug Binder 713 (female) with screw terminals, IP67; straight
- 080W: Plug Binder 713 (female) with screw terminals, IP67; angled
- 085-B713G-PIG-5: IEPE cable; 5 m; Binder 713; straight; female. to pig tail; 80 °C; Ø5
- 085-B713W-PIG-5: IEPE cable; 5 m; Binder 713; angled; female to pig tail; 80 °C; Ø5
- 085-B713G-BNC-5: IEPE cable; 5 m; Binder 713; straight; female. to BNC; 80 °C; Ø5
- 085-B713W-BNC-5: IEPE cable; 5 m; Binder 713; angled; female. to BNC; 80 °C; Ø5

Mounting Accessories

- 043: Mounting stud; M8 x 10
- 229: Adhesive pad; conductive; M8; Ø25; >250 °C
- 208: Rare earth magnetic base; M8; Ø30; 120 °C
- 230: Triaxial mounting cube; M8; □34

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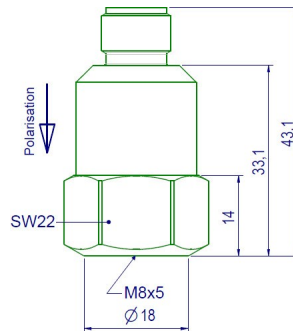
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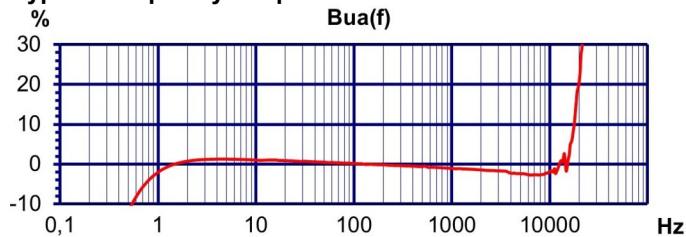
Properties

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- Wide frequency range (20kHz/3dB)
- Low temperature dependence
- Economic price



Piezo design	Shear design	
Output	IEPE	
Voltage sensitivity	500	mV/g
Sensitivity tolerance	5	%
Measurement range, pos./neg.	11	g
Destruction limit	5000	g
Transverse sensitivity	<5	%
Lower frequency limit (3 dB)	0,3	Hz
Upper frequency limit (3 dB)	20000	Hz
Lower frequency limit (10 %)	0,6	Hz
Upper frequency limit (10 %)	14000	Hz
Lower frequency limit (5 %)	0,8	Hz
Upper frequency limit (5 %)	10000	Hz
Resonant frequency	>32	kHz
Resonance amplitude	25	dB
Constant current supply	2 – 16	mA
Bias voltage at 4 mA	12,5 – 14	V
Output impedance	<80	Ω
Residual noise; wide band; RMS	<160 (0,5 - 20000 Hz)	μg
Noise density 1 Hz	25	μg/√Hz
Noise density 10 Hz	7	μg/√Hz
Noise density 100 Hz	1	μg/√Hz
Noise density 1000 Hz	0,9	μg/√Hz
Operating temperature range	-40 - 120	°C
Temperature response of sensitivity	see graph	
	±1 (-10 - 80 °C)	%
	+2/-4 (-40 - 120 °C)	%
Temperature transient sensitivity	0,005	m/s²/K
Magnetic field sensitivity	0,5	m/s²/T
Weight without cable	61	g
Case material	Stainless steel	
Connector direction	axial	
Connector	Binder 713	
Mounting	M8	
Isolated mounting	yes (4 GΩ)	
IP code	IP68	

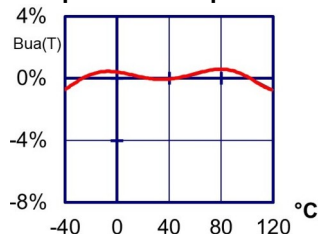
Typical Frequency Response



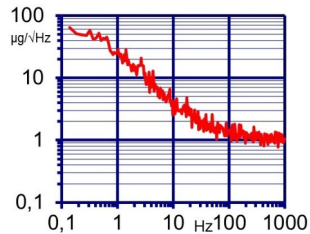
Contact Arrangement



Temperature Response



Noise Characteristics



Connection Accessories

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- 080W: Plug Binder 713 (female) with screw terminals, IP67; angled
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- 085-B713G-BNC-5: IEPE cable; 5 m; Binder 713; straight; female. to BNC; 80 °C; Ø5
- 085-B713W-BNC-5: IEPE cable; 5 m; Binder 713; angled; female. to BNC; 80 °C; Ø5

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- 043: Mounting stud; M8 x 10
- 229: Adhesive pad; conductive; M8; Ø25; >250 °C
- 208: Rare earth magnetic base; M8; Ø30; 120 °C
- 230: Triaxial mounting cube; M8; □34

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