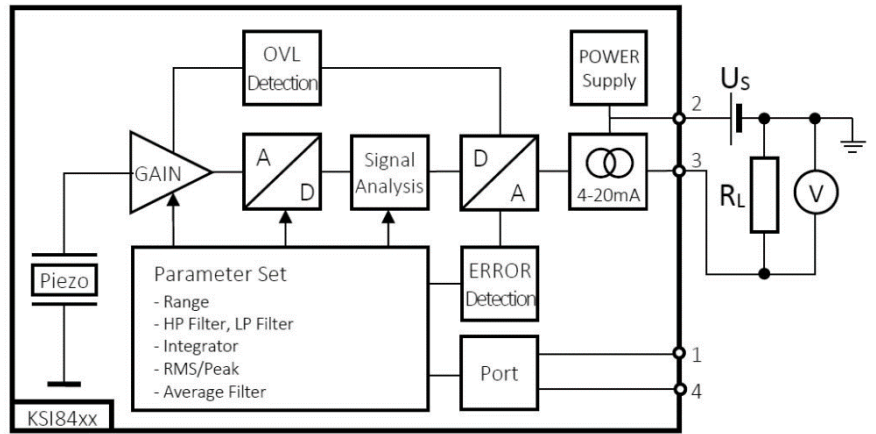
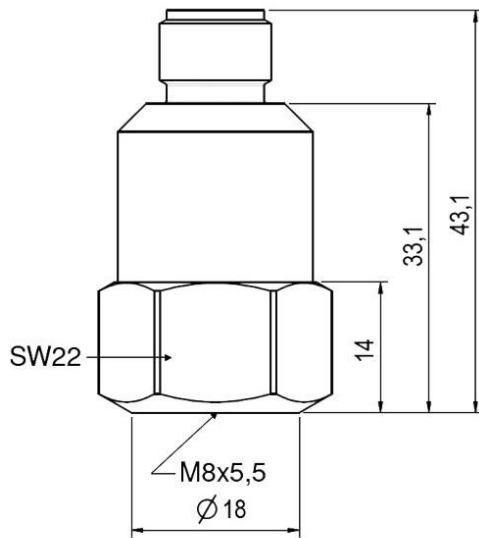


Vibration Velocity Sensor with RMS Output 4 – 20 mA

PCE-AC420VR



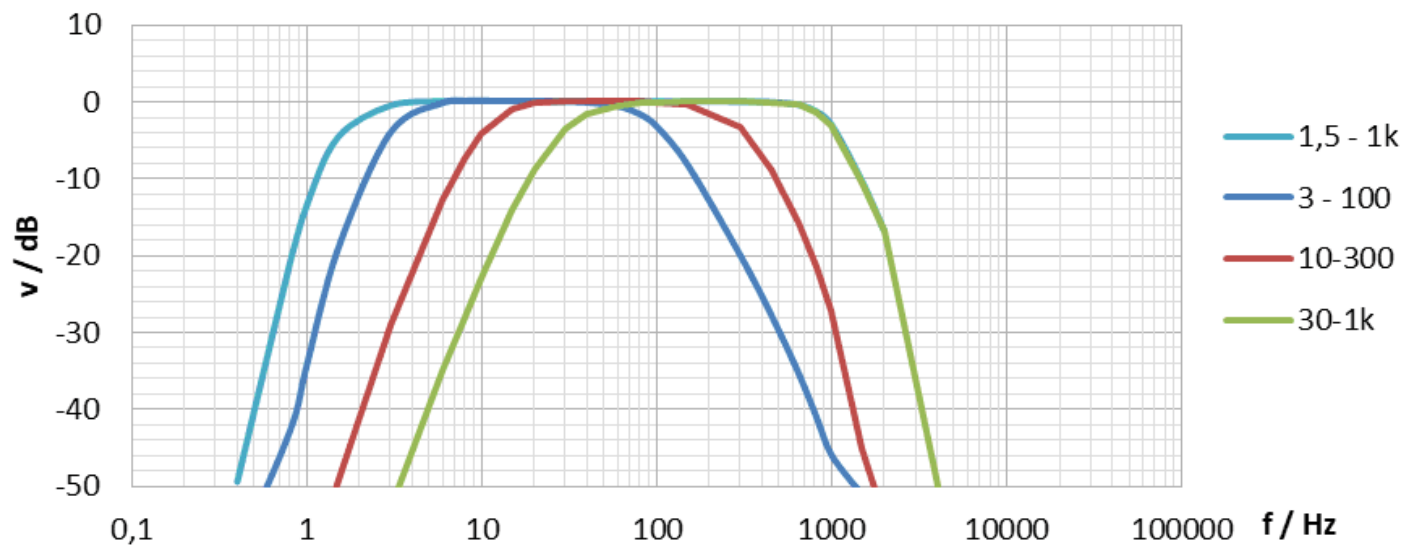
- ▶ Suited for direct connection to standard control and measurement equipment, e.g. PLCs or panel meters
- ▶ Particularly suited for machine condition monitoring to ISO 20816
- ▶ Types with different measurement ranges
- ▶ Loop powered
- ▶ Ground insulated
- ▶ Compact and rugged design
- ▶ M12 socket for easy cable connection
- ▶ Protected against false polarization and overvoltage
- ▶ Double shielded case for best EMC properties
- ▶ High protection grade IP68
- ▶ With identical design also available as acceleration and displacement sensor with RMS or peak output



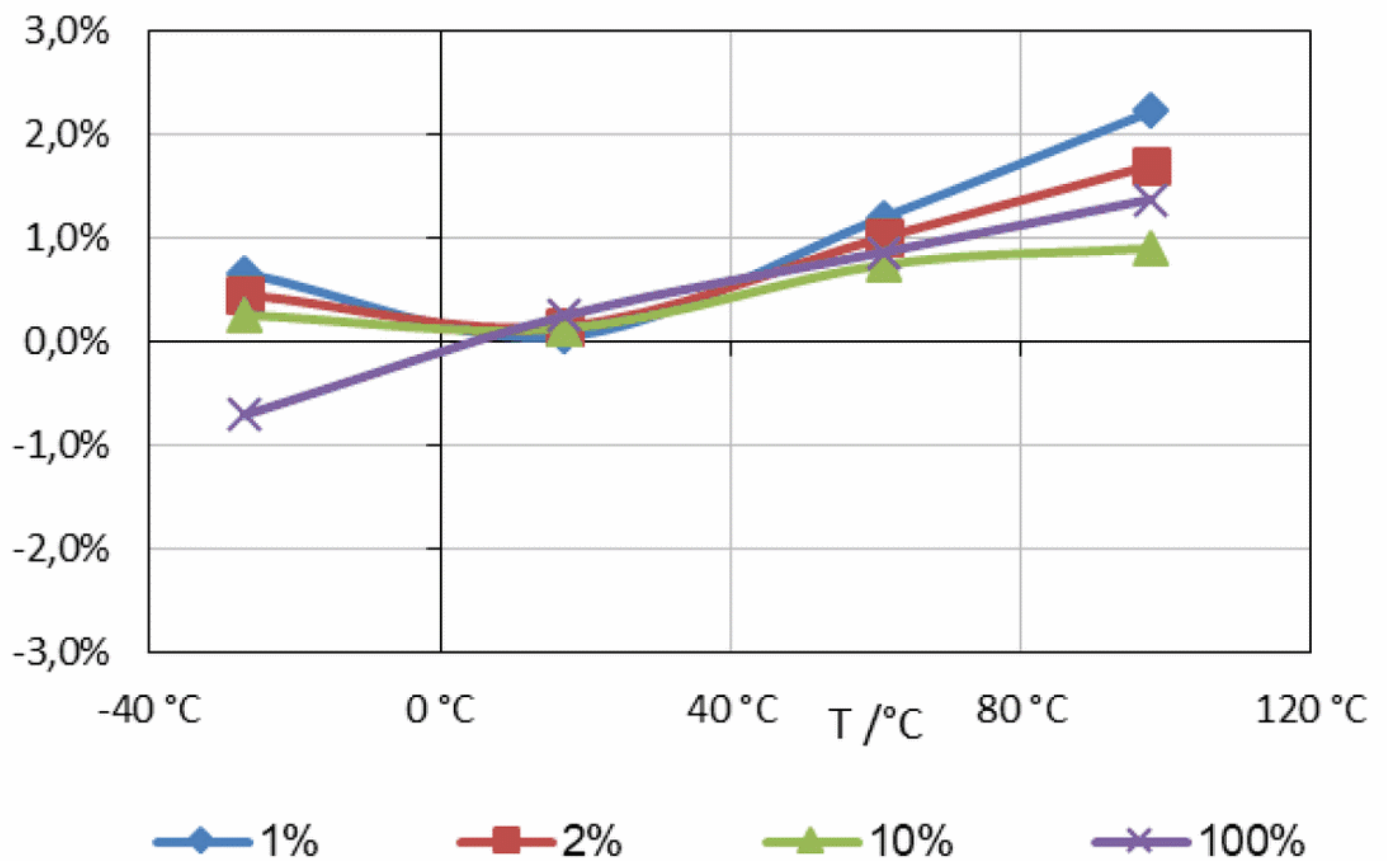
Características técnicas

Piezo design	Shear design	
Output	4 ... 20 mA, RMS of vibration velocity	
Full scale value (cf. type list)	10 / 12,7 / 20 / 25,4 / 40 / 50,8	mm/s
Linear range for <2 % error, referred to full scale output	1 – 112,5	%
Full scale tolerance	2	%
Destruction limit	±5000	G
Transverse sensitivity	<5	%
Lower frequency limit (cf. type list)	1,5 / 3 / 10 / 30	Hz
Upper frequency limit (cf. type list)	100 / 300 / 1000	Hz
Loop supply voltage	10 – 30	V
Settling time	4	S
Operating temperature range	-40 - 100	°C
Temperature coefficient of sensitivity	+0,015	%/K
4 mA offset drift over operating temperature range	±4	µA
4 mA offset drift over time	±1	µA
Weight without cable	60	g
Case material	Stainless steel	
Direction of connector	Axial	
Connection	M12, 4 contacts, male. (Binder 713)	
Mounting	Tapped hole M8 x 5,5	
Isolation at 250 VDC	>4	GΩ
Protection grade	IP68	

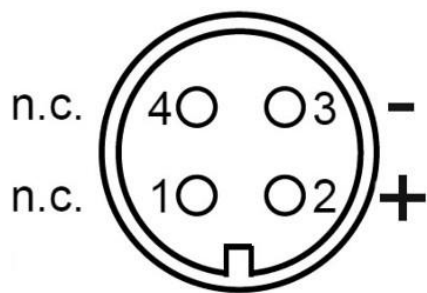
Typical Amplitude Response (example)



Linearity vs. Temperature and Vibration Amplitude



Contact Arrangement



Type List

High pass	Low pass	Range*	Type code	Noise
H [Hz]	L [Hz]	R [mm/s]	PCE-AC420V-H-L-R	[mm/s]
1,5	100/300/1k	40	PCE-AC420V-1-L-40	0,1
1,5	100/300/1k	50,8	PCE-AC420V-1-L-50	0,035
3	100/300/1k	20	PCE-AC420V-3-L-20	0,035
3	100/300/1k	25,4	PCE-AC420V-3-L-25	0,035
3	100/300/1k	40	PCE-AC420V-3-L-40	0,035
3	100/300/1k	50,8	PCE-AC420V-3-L-50	0,035
10	100/300/1k	10	PCE-AC420V-10-L-10	0,01
10	100/300/1k	12,7	PCE-AC420V-10-L-12	0,01
10	100/300/1k	20	PCE-AC420V-10-L-20	0,01
10	100/300/1k	25,4	PCE-AC420V-10-L-25	0,01
10	100/300/1k	40	PCE-AC420V-10-L-40	0,01
10	100/300/1k	50,8	PCE-AC420V-10-L-50	0,01
30	100/300/1k	10	PCE-AC420V-30-L-10	0,005
30	100/300/1k	12,7	PCE-AC420V-30-L-12	0,005
30	100/300/1k	20	PCE-AC420V-30-L-20	0,005
30	100/300/1k	25,4	PCE-AC420V-30-L-25	0,005
30	100/300/1k	40	PCE-AC420V-30-L-40	0,005
30	100/300/1k	50,8	PCE-AC420V-30-L-50	0,005

*RMS values

Connection Accessories

PCE-AC420x|M12-PIG5: Cable for PCE-AC420x; 5 m; Binder 713; straight; female to pig tail; 80 °C; D5

Más información



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