

US67-VIB60C-ANA-E016B000C00000**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Data sheet for information
only**

Weidmüller provides high-quality wired vibration sensors for monitoring vibrations in various frequency and measuring ranges.

General ordering data

Order No.	3095190000
Type	US67-VIB60C-ANA-E016B000C00000
GTIN (EAN)	4099987114608
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2025-07-30T00:00:00+02:00

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E337701

Certificate no. (cULusEX) E345958

Dimensions and weights

Depth	62 mm	Depth (inches)	2.4409 inch
Height	46 mm	Height (inches)	1.811 inch
Width	72.5 mm	Width (inches)	2.8543 inch
Diameter	62 mm	Net weight	500 g

Temperatures

Storage temperature	-40 °C...60 °C	Ambient temperature	-40 °C...60 °C
Operating temperature	-40 °C...60 °C	Humidity	0...100%

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	438dfa95-6948-44c9-aa1b-107ba9482546

General data

Explosive risk zone	UL/cUL, Class I, Division 2, Groups A, B, C and D, UL/cUL, Class II, Division 2, Groups F and G	Safety category	SIL 2
Applications	for indoor and outdoor use	Operating life	10 years
For Ex zone dust	22	For Ex zone gas	2
Machine vibration assessment included	Yes	Protection class (UL)	Type 4X
Explosion protection type	Ex tc, Ex ec	MTTF	112 a
Protection degree	IP67 (cover and plug connection closed), IP66 (cover and plug connection closed)		

Sensor

Physical measurement principle of the sensor	Vibration acceleration
Frequency range configurable	No
Vibration acceleration, min. (gravity g)	-16.5
Cross sensitivity	<5 %
Temperature range measuring head	Temperature, min. -40 °C Temperature, max. 85 °C
Effective vibration velocity, max.	16 mm/s
Device is calibrated	Yes
Sensor measuring method acc. to ISO 10816-3	1-axis broadband analysis 10 Hz...1 kHz, VRMS

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Accuracy of vibration measurement	10 %	
Calibration point	159,2 Hz and 90 % amplitude of measurement range	
Vibration acceleration, max. (gravity g)	16.5	
Measurement range	4...20 mA ~ 0...16 mm/s, rms (standard)	
Measuring unit vibration velocity (RMS)	mm/s	
Number of measuring axes	1	
Temperature measurement available	No	
Transmission intervall of signals	Continuous measurement	
Spectral analysis method (FFT)	No FFT calculation	
Frequency range, min.	10 Hz	
Frequency range, max.	1000 Hz	
Sensor vibration	Monitored value	Acceleration
	Type of sensor	single-axis MEMS
Monitoring	Vibration monitoring acc. to DIN ISO 10816-3	
Accuracy	±10 % (acc. DIN ISO 2954)	

Cable

Number of poles	8	Plug	1x M12 female 8-pole
Connection type	M12		

Electrical data

Output signal	4...20 mA (proportional to measuring range)	Input current, max.	100 mA
Alarm function	2x potential-free switching contact (pre-alarm and main alarm), configurable	IO-Link available	No
Load resistance, max.	500 Ω	Measuring and process variables	RMS vibration velocity

Housing

Basic material	Stainless steel 1.4305 (V2A), AISI 303 (standard)
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Installation

Connection thread	Threaded hole on mounting surface: M8, 15 mm	Tightening torque	8 Nm
Type of mounting	Screw mounting, Direct mounting, Adhesive fastening, Mounting plate, Magnet, Miscellaneous	Type of mounting sensor	Direct mounting: screw connection, Many possibilities using adapters, Hexagon socket head cap screw M8x20
Mounting thread	M8	Installation location	Indoor and outdoor use
Sealing with tie possible	No		

Power supply

Type of power supply	DC, External	Wireless	No
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Measuring voltage input

Frequency range, max.	1000 Hz	Frequency range, min.	10 Hz
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ETIM 8.0	EC004309	ETIM 9.0	EC004309
ETIM 10.0	EC004309	ECLASS 9.1	27-20-14-12
ECLASS 10.0	27-20-14-12	ECLASS 11.0	27-20-14-12
ECLASS 12.0	27-20-14-12	ECLASS 13.0	27-20-14-12
ECLASS 14.0	27-20-14-12	ECLASS 15.0	27-20-14-12