Data sheet

US67-VIB60C-ANA-0032B000C00000

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.	3095410000
Type	US67-VIB60C-ANA-0032B000C00000
GTIN (EAN)	4099987114615
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

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, 7cI
REACH SVHC	Lead 7439-92-1
SCIP	438dfa95-6948-44c9-aa1b-107ba9482546

General data

Safety category	SIL 2	Applications	for indoor and outdoor use
Operating life	10 years	For Ex zone dust	None
For Ex zone gas	None	Machine vibration assessment included	Yes
Protection class (UL)	Type 4X	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.	32 mm/s	
Device is calibrated	Yes	
Sensor measuring method acc. to ISO10816-3	1-axis broadband analysis 10 Hz...1 kHz, VRMS	
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...32 mm/s, rms	
Measuring unit vibration velocity (RMS)	mm/s	

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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)		

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	Hexagon socket head cap screw M8x20, Many possibilities using adapters, Direct mounting: screw connection
Mounting thread	M8	Installation location	Indoor and outdoor use
Sealing with tie possible	No		

Power supply

Type of power supply	External, DC	Wireless	No

Measuring voltage input

Frequency range, max.	1000 Hz	Frequency range, min.	10 Hz

Classifications

ETIM 8.0	EC004309	ETIM 9.0	EC004309
ETIM 10.0	EC004309	ECLASS 14.0	27-20-14-12
ECLASS 15.0	27-20-14-12		