

US67-VIB42C-ANA-00160000B00000**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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

General ordering data

Order No.	3095040000
Type	US67-VIB42C-ANA-00160000B00000
GTIN (EAN)	4099987114547
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

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ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E337701

Dimensions and weights

Depth	31 mm	Depth (inches)	1.2205 inch
Height	82.35 mm	Height (inches)	3.2421 inch
Width	31 mm	Width (inches)	1.2205 inch
Diameter	31 mm	Net weight	200 g

Temperatures

Storage temperature	-40 °C...60 °C	Ambient temperature	-40 °C...60 °C
Operating temperature	-40 °C...60 °C		

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	No	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
MTTF	399 a	Protection degree	IP67 (in plugged condition), IP66 (in plugged condition)

Sensor

Physical measurement principle of the sensor	Vibration acceleration	
Frequency range configurable	No	
Vibration acceleration, min. (gravity g)	-16.5	
Sensor temperature	Monitored value	Temperature
	Type of sensor	Temperature MEMS
	Measurement accuracy	+/-1°C
Cross sensitivity	<5 %	
Temperature range measuring head	Temperature, min.	-40 °C
	Temperature, max.	125 °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	
Accuracy of vibration measurement	10 %	
Calibration point	159,2 Hz and 90 % amplitude of measurement range	
Vibration acceleration, max. (gravity g)	16.5	

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Measurement range	4...20 mA ~ 0...16 mm/s, rms (standard)		
Accuracy of temperature measurement	1 %		
Number of measuring axes	1		
Temperature measurement available	Yes		
Transmission intervall of signals	Continuous measurement		
Spectral analysis method (FFT)	No FFT calculation		
Frequency range, min.	10 Hz		
Frequency range, max.	1000 Hz		
Measured temperature value, min.	0 °C		
Measured temperature value, max.	100 °C		
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	4	Plug	1x M12 female 4-pole
Connection type	M12		

Electrical data

Output signal	2x 4...20 mA (proportional to measuring range)	Input current, max.	50 mA
IO-Link available	No	Load resistance, max.	500 Ω
Measuring and process variables	RMS vibration velocity	Type of fuse	30V DC, 3A, medium time lag

Housing

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

Connection thread	M8 thread	Tightening torque	8 Nm
Type of mounting	Screw mounting, Direct mounting, Adhesive fastening, Mounting plate, Magnet, Miscellaneous	Type of thread	External thread
Type of mounting sensor	Direct mounting: screw connection, Many possibilities using adapters	Wrench size	24 mm
Torque for cap nut, max.	0.40 Nm	Mounting thread	M8
Installation location	Indoor and outdoor use	Sealing with tie possible	No

Power supply

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

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

ETIM 8.0	EC004309	ETIM 9.0	EC004309
ETIM 10.0	EC004309	ECLASS 9.1	27-20-14-12

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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