

US67-VIB40C-ANA-B0160000B00000**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.	3094880000
Type	US67-VIB40C-ANA-B0160000B00000
GTIN (EAN)	4099987114516
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, 7cl
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	21, 22
For Ex zone gas	1, 2	Machine vibration assessment included	Yes
Explosion protection type	Ex ib	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
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 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...16 mm/s, rms (standard)
Measuring unit vibration velocity (RMS)	mm/s

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Number of measuring axes	1
Temperature measurement available	No
Transmission interval 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	5	Plug	1x M12 female 4-pole
Connection type	M12		

Electrical data

Output signal	4...20 mA (proportional to measuring range)	Input current, max.	25 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	DC, 24 V, External	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
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