

US67-VIB40C-ANA-C0160000B00000

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Technical data

Approvals

Approvals



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

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	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
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)		
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	4	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	Many possibilities using adapters, Direct mounting: screw connection	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 14.0	27-20-14-12
ECLASS 15.0	27-20-14-12		