

US67-VIB60C-ANA-D016B000CB0000**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.	3095160000
Type	US67-VIB60C-ANA-D016B000CB0000
GTIN (EAN)	4099987114592
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2025-07-30T00:00:00+02:00

US67-VIB60C-ANA-D016B000CB0000

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	62 mm	Depth (inches)	2.4409 inch
Height	46 mm	Height (inches)	1.811 inch
Width	77 mm	Width (inches)	3.0315 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

Safety category	SIL 2	Applications	for indoor and outdoor use
Operating life	10 years	For Ex zone dust	21
For Ex zone gas	1	Machine vibration assessment included	Yes
Protection class (UL)	Type 4X	Explosion protection type	Ex db, Ex tb
MTTF	112 a	Protection degree	IP66 (cover and plug connection closed), IP67 (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	
	Restrictions	For cULus: -30°C ... 80°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		
Measurement range	4...20 mA ~ 0...16 mm/s, rms (standard)		

Creation date 11.12.2025 07:55:52 MEZ

Catalogue status / Drawings

US67-VIB60C-ANA-D016B000CB0000

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

www.weidmueller.com

Technical data

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	Cable length	5 m
Cable type	Li9YC11Y 8x0,25 mm ²	Plug	1x M12 female 8-pole
Halogen	halogen-free, according to VDE 0472 Part 815	Sheath diameter	6 mm
Temperature range, moving, max.	90 °C	Temperature range, moving, min.	-20 °C
Temperature range, stationary, max.	90 °C	Temperature range, stationary, min.	-40 °C
Bending radius, min., moving	60 mm	Bending radius, min., stationary	30 mm
Sheath material	PUR 11Y Etherbase	Connection type	Cable

Electrical data

Output signal	4...20 mA (proportional to measuring range)	Input current, max.	100 mA
Alarm function	configurable, 2x potential-free switching contact (pre-alarm and main alarm)	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	Many possibilities using adapters, Direct mounting: screw connection, 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	External, DC	Wireless	No
----------------------	--------------	----------	----

Measuring voltage input

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

US67-VIB60C-ANA-D016B000CB0000**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Technical data****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		