

US67-VIB24C-IOL-0UNI0A02A00000**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.	3094650000
Type	US67-VIB24C-IOL-0UNI0A02A00000
GTIN (EAN)	4099987114462
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	27.7 mm	Depth (inches)	1.0905 inch
Height	72.5 mm	Height (inches)	2.8543 inch
Width	23.8 mm	Width (inches)	0.937 inch
Diameter	27.7 mm	Net weight	90 g

Temperatures

Storage temperature	-40 °C...80 °C	Ambient temperature	-40 °C...80 °C
Operating temperature	-40 °C...80 °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	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
Protection class (UL)	Type 4X	Protection degree	IP67 (in plugged condition), IP66 (in plugged condition)

Sensor

Physical measurement principle of the sensor	Vibration acceleration	
Frequency range configurable	Yes	
Vibration acceleration, min. (gravity g)	-48	
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.	85 °C
Effective vibration velocity, max.	64 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	1g (rms) @ 159,2 Hz	
Vibration acceleration, max. (gravity g)	48	

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Measurement range	Configurable via IO-Link		
Measuring unit vibration velocity (RMS)	mm/s		
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.	1 Hz		
Frequency range, max.	12000 Hz		
Sensor vibration	Monitored value	Acceleration	
	Type of sensor	single-axis MEMS	
Monitoring	Vibration monitoring acc. to DIN ISO 10816-3		
Accuracy	±0,5 % at the calibration point, ±10 % (acc. DIN ISO 2954)		

Cable

Number of poles	4	Plug	1x M12 female 4-pole
Connection type	M12		

Electrical data

Output level	N/O contact / N/C contact (low-active / high-active)	Output signal	4...20 mA (proportional to measuring range)
Input current, max.	320 mA	No-load input current	120 mA
IO-Link available	Yes	Measuring and process variables	RMS vibration acceleration, RMS vibration velocity, Peak value vibration acceleration, Temperature, Status of the internal self-test, Error status, States of all switching signals, Crest value, Bearing condition parameter according to 13337-3
Connection type of IO-Link interface	IO-Link V1.1.3		

Housing

Basic material	Stainless steel 1.4404 (V4A), AISI 316L
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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	DC, External	Wireless	No
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www.weidmueller.com**Technical data****Measuring voltage input**

Frequency range, max.	12000 Hz	Frequency range, min.	1 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

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Accessories

Sensor accessories



Weidmüller offers high-quality cables, plugs, mounting adapters and magnets for the professional and industrial installation of vibration monitors.

General ordering data

Type	US67-CAB-00C4S-00150-000	Version
Order No.	3074570000	
GTIN (EAN)	4099987075923	
Qty.	1 ST	
Type	US67-CAB-00C4S-00500-000	Version
Order No.	3074580000	
GTIN (EAN)	4099987075930	
Qty.	1 ST	
Type	US67-CAB-00C4S-01000-000	Version
Order No.	3074590000	
GTIN (EAN)	4099987075947	
Qty.	1 ST	
Type	US67-MNT-00M08-000M8 -C...	Version
Order No.	3069470000	
GTIN (EAN)	4099987067591	
Qty.	1 ST	
Type	US67-MNT-00M08-003/8-000	Version
Order No.	3073540000	
GTIN (EAN)	4099987075787	
Qty.	1 ST	
Type	US67-MNT-00M08-00M06-000	Version
Order No.	3069360000	
GTIN (EAN)	4099987067539	
Qty.	1 ST	
Type	US67-MNT-00M08-00M10-S24	Version
Order No.	3073200000	
GTIN (EAN)	4099987075718	
Qty.	1 ST	
Type	US67-MNT-00M08-00M12-S24	Version
Order No.	3073300000	
GTIN (EAN)	4099987075732	
Qty.	1 ST	
Type	US67-MNT-00M08-00M16-000	Version
Order No.	3073330000	
GTIN (EAN)	4099987075749	
Qty.	1 ST	

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Accessories

Type	US67-MNT-00M08-00M20-000	Version
Order No.	3073360000	
GTIN (EAN)	4099987075756	
Qty.	1 ST	
Type	US67-MNT-00M08-00M24-000	Version
Order No.	3073370000	
GTIN (EAN)	4099987075763	
Qty.	1 ST	
Type	US67-MNT-00M08-00M30-000	Version
Order No.	3073380000	
GTIN (EAN)	4099987075770	
Qty.	1 ST	
Type	US67-MNT-00M08-01/2B-000	Version
Order No.	3073690000	
GTIN (EAN)	4099987075817	
Qty.	1 ST	
Type	US67-MNT-00M08-01/4N-000	Version
Order No.	3073570000	
GTIN (EAN)	4099987075800	
Qty.	1 ST	
Type	US67-MNT-00M08-01/4U-000	Version
Order No.	3073550000	
GTIN (EAN)	4099987075794	
Qty.	1 ST	
Type	US67-MNT-00M08-0GLUE-000	Version
Order No.	3073700000	
GTIN (EAN)	4099987075824	
Qty.	1 ST	
Type	US67-MNT-00M08-0MAG1-000	Version
Order No.	3073740000	
GTIN (EAN)	4099987075831	
Qty.	1 ST	
Type	US67-MNT-00M08-0MAG2-000	Version
Order No.	3073750000	
GTIN (EAN)	4099987075855	
Qty.	1 ST	