

US67-V1T-BLE**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Our wireless sensor is ideally suited for retrofitting in the field. Together with the Weidmüller Gateway IoT-GW30, the data collected by the sensor can be temporarily stored and transferred to a cloud or local system.

General ordering data

Version	Smart vibration sensor, Wireless
Order No.	2751260000
Type	US67-V1T-BLE
GTIN (EAN)	4064675022480
Qty.	1 pc(s).
Replacement parts	2757620000

US67-V1T-BLE

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Technical data

Dimensions and weights

Depth	66 mm	Depth (inches)	2.598 inch
Height	55.5 mm	Height (inches)	2.185 inch
Width	66 mm	Width (inches)	2.598 inch
Diameter	66 mm	Net weight	291.2 g

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-20 °C...60 °C
Humidity at operating temperature	5...95 % rel. humidity, no condensation		

General data

Applications	for indoor and outdoor use	Explosion protection type	Ex e
Explosive risk zone	ATEX Zone 2 Ex ec IIC T4 Gc, UL/cUL, Class I, Division 2, Groups A, B, C and D, IEC 60079-0, IEC 60079-7	Machine vibration assessment included	
Safety category	No	Air pressure (operation)	Yes ≥ 795 hPa (height ≤ 2000 m) as per DIN EN 61131-2
Protection degree	IP67, IP66		

Sensor

Accuracy of temperature measurement	1 %	
Device is calibrated	No	
Frequency range configurable	No	
Measurement range	corresponding to the maximum vibration acceleration	
Measuring unit vibration velocity (RMS)	mm/s	
Number of measuring axes	3	
Output interval	10s, 10m, 1h	
Physical measurement principle of the sensor	Vibration acceleration	
Sensitivity vibration acceleration sensor (mV/gravity g)	112	
Sensor measuring method acc. to ISO 10816-3	3-axis broadband analysis 10 Hz...1 kHz, VRMS	
Sensor temperature	Monitored value	Temperature
	Type of sensor	Temperature MEMS
	Measurement accuracy	+/-1°C
Spectral analysis method (FFT)	3-axis spectral analysis 10 Hz...3,3 kHz, acceleration spectrum	
Temperature range measuring head	Temperature, min.	-20 °C
	Temperature, max.	60 °C
Transmission intervall of signals	10 s, 10 min, 1 h	
Vibration acceleration, max. (gravity g)	16	
Vibration acceleration, min. (gravity g)	-16	
Frequency range, min.	10 Hz	
Frequency range, max.	3,300 Hz	
Measured temperature value, min.	-20 °C	
Measured temperature value, max.	60 °C	
Sampling frequency	6.6 kHz	
Sensor vibration	Monitored value	Acceleration
	Type of sensor	tri-axial MEMS
Monitoring	Vibration monitoring acc. to DIN ISO 10816-3	

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Communication

Version	Wireless	Antenna characteristics	Integrated omni-directional antenna
Communication range, max., line-of sight	90 m	Communication range, max., in shop floor	30 m
Bluetooth module	Bluetooth Low Energy, 2.4 GHz RF Transceiver		

Electrical data

Alarm function	Configurable on the gateway	IO-Link available	No
Measuring and process variables	Peak value vibration acceleration, RMS vibration acceleration, RMS vibration velocity, FFT spectrum, Crest value, Temperature, Battery voltage, Signal strength	Output signal	Process data can be evaluated on the gateway

Housing

Material	Stainless steel 1.4404 (V4A), AISI 316L & plastic PA 66	Cover material	PA 66
Socket material	Stainless steel		

Installation

Connection thread	M8 socket	Installation location	Indoor and outdoor use
Mounting thread	M8	Sealing with tie possible	Yes
Suitable for retrofitting	Yes	Tightening torque	25 Nm
Tightening torque, max.	30 Nm	Tightening torque, min.	20 Nm
Type of mounting	Screw mounting, Direct mounting, Mounting plate, Adhesive fastening, Magnet, Miscellaneous	Type of mounting sensor	Many possibilities using adapters, Direct mounting: screw connection
Type of thread	Inner thread	Wrench size	22 mm

Insulation coordination

Surge voltage category	II	Rated voltage	50 V secondary circuits
Pollution severity	2		

Power supply

Battery replaceable	Yes	Battery size	AA/Mignon/R6
Number of battery cells	1	Type of power supply	Battery
Wireless	Yes	Battery type	Lithium
Battery voltage	3.6 V	Battery capacity	2.2 Ah
Battery lifetime	Typ. 3 years (at a transmission interval of 1h and an operating temperature between +15°C...+25°C)		

Measuring voltage input

Frequency range, max.	3,300 Hz	Frequency range, min.	10 Hz
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Technical data

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

Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	No SVHC above 0.1 wt%

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_322323/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319213/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319240/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E337701
Certificate no. (cULusEX)	E539531

Downloads

Approval/Certificate/Document of Conformity	Certification IECEx Certification ATEX Declaration of Conformity
Engineering Data	u-sense VIB1 V1.1 NodeRED Payload CAD data – STEP
Software	Firmware – u-sense vibration firmware 1.0.1
User Documentation	Quick start guide – Instruction sheet US67-V1T-BLE
Catalogues	Catalogues in PDF-format

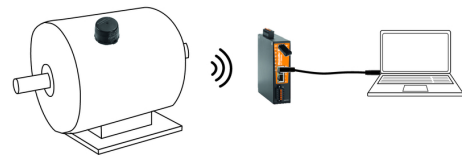
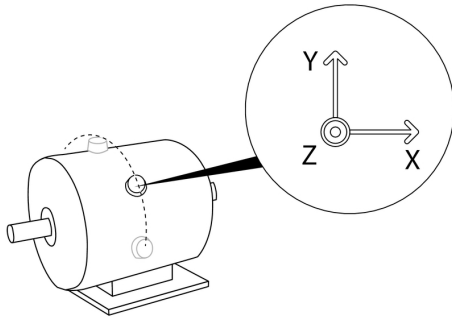
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Drawings

Example of use



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www.weidmueller.com**Replacement parts****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-BAT-COSL	Version
Order No.	2757620000	Battery
GTIN (EAN)	4064675018315	
Qty.	1 pc(s).	

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Accessories

Sensor accessories



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General ordering data

Type	US67-PLATE64-STD	Version
Order No.	2811910000	Adapter plate
GTIN (EAN)	4064675292975	
Qty.	1 pc(s).	
Type	US67-MNT-00M08-0MAG1-000	
Order No.	3073740000	
GTIN (EAN)	4099987075831	
Qty.	1 pc(s).	
Type	US67-MNT-00M08-00M20-000	
Order No.	3073360000	
GTIN (EAN)	4099987075756	
Qty.	1 pc(s).	
Type	US67-MNT-00M08-00M24-000	
Order No.	3073370000	
GTIN (EAN)	4099987075763	
Qty.	1 pc(s).	
Type	US67-MNT-00M08-00M8 -C ...	
Order No.	3069470000	
GTIN (EAN)	4099987067591	
Qty.	1 pc(s).	
Type	US67-MNT-00M08-00M16-000	
Order No.	3073330000	
GTIN (EAN)	4099987075749	
Qty.	1 pc(s).	
Type	US67-MNT-00M08-00M12-S30	
Order No.	3073210000	
GTIN (EAN)	4099987075725	
Qty.	1 pc(s).	
Type	US67-MNT-00M08-0GLUE-000	
Order No.	3073700000	
GTIN (EAN)	4099987075824	
Qty.	1 pc(s).	
Type	US67-MNT-00M08-00M10-S30	
Order No.	3072980000	
GTIN (EAN)	4099987075695	
Qty.	1 pc(s).	
Type	US67-USB-STICK-BLE	Version
Order No.	2874720000	Communication module
GTIN (EAN)	4064675649526	
Qty.	1 pc(s).	

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Accessories

Type	US67-MNT-00M08-0MAG2-000
Order No.	3073750000
GTIN (EAN)	4099987075855
Qty.	1 pc(s).

IoT-Gateways



Features of IoT-Gateways

- Enables machine data acquisition and provides access to field devices and PLC's via various protocols and interfaces
- Interfaces to your own IT systems as well as to common cloud systems
- Data traffic reduction through preprocessing on edge via the open IoT standard Node-RED
- Secure and easy remote maintenance with Weidmüller u-link Remote Access Service
- Integration of most common communication interfaces in small design
- Open programming platform Node-RED with strong community support

General ordering data

Type	IOT-GW30	Version
Order No.	2682620000	IoT Gateway, Fast Ethernet, IP20, -20 °C...60 °C
GTIN (EAN)	4050118691696	
Qty.	1 pc(s).	

Type	IOT-GW30-4G-EU	Version
Order No.	2682630000	IoT Gateway, Fast Ethernet, IP20, -20 °C...60 °C
GTIN (EAN)	4050118691689	
Qty.	1 pc(s).	

Decentralised IoT-Gateways IP65



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General ordering data

Type	FP IOT MD01 4EU S2 00000	Version
Order No.	8000058270	FieldPower® IoT-Box, LAN, Wireless, IP54
GTIN (EAN)	4064675384618	
Qty.	1 pc(s).	

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Accessories

Type	FP IOT MD01 LAN S2 00000	Version
Order No.	8000058603	FieldPower® IoT-Box, LAN, IP54
GTIN (EAN)	4064675021285	
Qty.	1 pc(s).	