

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

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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.	<a href="#">2751260000</a>
Type	US67-V1T-BLE
GTIN (EAN)	4064675022480
Qty.	1 pc(s).
Replacement parts	<a href="#">2757620000</a>

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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

Air pressure (operation)	≥ 795 hPa (height ≤ 2000 m) as per DIN EN 61131-2	Protection degree	IP67, IP66
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## Sensor

Output interval	10s, 10m, 1h	
Sensor measuring method acc. to ISO10816-3	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	
Transmission intervall of signals	10 s, 10 min, 1 h	
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	

## Communication

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

IO-Link available	Measuring and process variables	Peak value vibration acceleration, RMS vibration acceleration, RMS vibration velocity, FFT spectrum, Crest value, Temperature, Battery voltage, Signal strength
No		

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## Housing

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

## Installation

Mounting thread	M8	Sealing with tie possible	Yes
Type of mounting sensor	Many possibilities using adapters, Direct mounting: screw connection		

## Insulation coordination

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

## Power supply

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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## Classifications

ETIM 8.0	EC004309	ETIM 9.0	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

## Environmental Product Compliance

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

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E337701
Certificate no. (cULusEX)	E539531

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## Technical data

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Certification IECEx</a> <a href="#">Certification ATEX</a> <a href="#">Declaration of Conformity</a>
Software	<a href="#">Firmware – u-sense vibration firmware 1.0.1</a>
User Documentation	<a href="#">Quick start guide – Instruction sheet US67-V1T-BLE</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

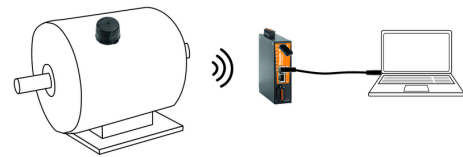
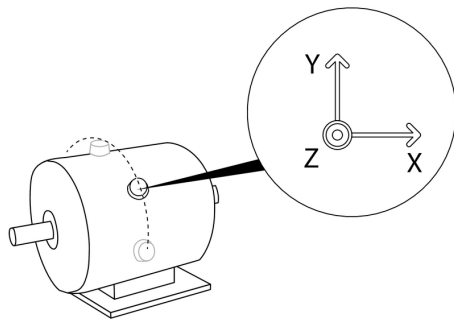
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# Drawings

## Example of use



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## Accessories

## 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-GW30-4G-EU	Version
Order No.	<a href="#">2682630000</a>	IoT Gateway, Fast Ethernet, IP20, -20 °C...60 °C
GTIN (EAN)	4050118691689	
Qty.	1 pc(s).	

Type	IOT-GW30	Version
Order No.	<a href="#">2682620000</a>	IoT Gateway, Fast Ethernet, IP20, -20 °C...60 °C
GTIN (EAN)	4050118691696	
Qty.	1 pc(s).	

## 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-MNT-00M08-00M24-000
Order No.	<a href="#">3073370000</a>
GTIN (EAN)	4099987075763
Qty.	1 pc(s).

Type	US67-MNT-00M08-0MAG1-000
Order No.	<a href="#">3073740000</a>
GTIN (EAN)	4099987075831
Qty.	1 pc(s).

Type	US67-USB-STICK-BLE	Version
Order No.	<a href="#">2874720000</a>	Communication module
GTIN (EAN)	4064675649526	
Qty.	1 pc(s).	

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories**

Type US67-MNT-00M08-00M12-S30

Order No. [3073210000](#)

GTIN (EAN) 4099987075725

Qty. 1 pc(s).

Type US67-MNT-00M08-00M10-S30

Order No. [3072980000](#)

GTIN (EAN) 4099987075695

Qty. 1 pc(s).

Type US67-MNT-00M08-00M16-000

Order No. [3073330000](#)

GTIN (EAN) 4099987075749

Qty. 1 pc(s).

Type US67-MNT-00M08-0GLUE-000

Order No. [3073700000](#)

GTIN (EAN) 4099987075824

Qty. 1 pc(s).

Type US67-MNT-00M08-0MAG2-000

Order No. [3073750000](#)

GTIN (EAN) 4099987075855

Qty. 1 pc(s).

Type US67-MNT-00M08-000M8 -C ...

Order No. [3069470000](#)

GTIN (EAN) 4099987067591

Qty. 1 pc(s).

Type US67-MNT-00M08-00M20-000

Order No. [3073360000](#)

GTIN (EAN) 4099987075756

Qty. 1 pc(s).

Type US67-PLATE64-STD

Version

Order No. [2811910000](#)

Adapter plate

GTIN (EAN) 4064675292975

Qty. 1 pc(s).

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## Accessories

## Decentralised IoT-Gateways IP65



## Features of IoT-Gateways

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## General ordering data

Type	FP IOT MD01 LAN S2 00000	Version
Order No.	<a href="#">8000058603</a>	FieldPower® IoT-Box, LAN, IP54
GTIN (EAN)	4064675021285	
Qty.	1 pc(s).	
Type	FP IOT MD01 4EU S2 00000	Version
Order No.	<a href="#">8000058270</a>	FieldPower® IoT-Box, LAN, Wireless, IP54
GTIN (EAN)	4064675384618	
Qty.	1 pc(s).	



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[www.weidmueller.com](http://www.weidmueller.com)**Replacement parts****Sensor accessories**

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**General ordering data**

Type	US67-BAT-COSL	Version
Order No.	<a href="#">2757620000</a>	Battery
GTIN (EAN)	4064675018315	
Qty.	1 pc(s).	