

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

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Knowledge is power - with our Industrial IoT sensors you can record important device data of your existing and new equipment with regard to mechanical and electrical variables. As a result you gain valuable information for important decisions regarding the operation and maintenance of your plants.

**General ordering data**

Version	Smart vibration sensor
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...85 °C	Operating temperature	-20 °C...85 °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	IP66
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## Sensor

Output interval	10s, 10m, 1h		
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		
Transmission interval of signals	10 s, 10 min, 1 h		
Measured temperature value, min.	-20 °C		
Measured temperature value, max.	80 °C		
Sampling frequency	6.6 kHz		
Sensor vibration	Monitored value	Acceleration	
	Type of sensor	tri-axial MEMS	
Monitoring	Vibration monitoring acc. to DIN ISO 10816-7		

## 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

## Housing

Cover material	PC-ABS	Socket material	Stainless steel 1.4404 (316L)
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## Installation

Sealing with tie possible	Yes	Type of mounting sensor	direct screwing via M8 screw, socket with hexagon nut SW 22, screwing via M8 screw on mounting plate
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# Technical data

### Insulation coordination

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

### Power supply

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)		

### Classifications

ETIM 6.0	EC002475	ETIM 7.0	EC002475
ETIM 8.0	EC002475	ETIM 9.0	EC002475
ECLASS 9.0	27-21-01-23	ECLASS 9.1	27-21-01-23
ECLASS 10.0	27-21-01-23	ECLASS 11.0	27-21-01-23
ECLASS 12.0	27-21-01-23	ECLASS 13.0	27-21-01-23

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Software	<a href="#">Application notes – Node-RED MultiFlow 1.0.0</a> <a href="#">Firmware for u-sense vibration sensor</a>
User Documentation	<a href="#">Quick start guide – Instruction sheet US67-V1T-BLE</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

**Data sheet**

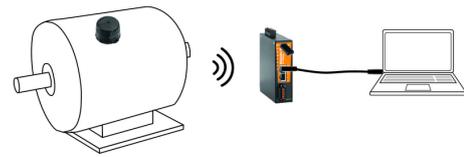
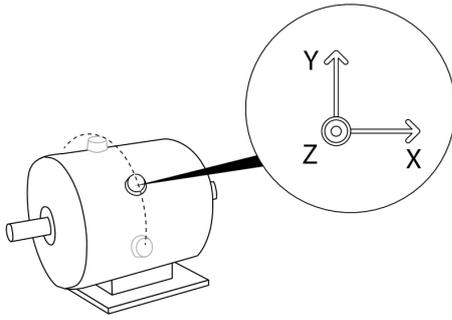
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**Drawings**

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

## Decentralised IoT-Gateways IP65



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### General ordering data

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).	
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).	

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**General ordering data**

Type	US67-USB-STICK-BLE	Version
Order No.	<a href="#">2874720000</a>	Communication module
GTIN (EAN)	4064675649526	
Qty.	1 pc(s).	
Type	US67-PLATE64-STD	Version
Order No.	<a href="#">2811910000</a>	Adapter plate
GTIN (EAN)	4064675292975	
Qty.	1 pc(s).	

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**Replacement parts****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).	