

**US67-VIB20C-ANA-00160000A00000****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Weidmüller provides high-quality wired vibration sensors for monitoring vibrations in various frequency and measuring ranges.

**General ordering data**

|                 |                                                         |
|-----------------|---------------------------------------------------------|
| Order No.       | 3094340000                                              |
| Type            | <a href="#">US67-VIB20C-ANA-00160000A00000</a>          |
| GTIN (EAN)      | 4099987114387                                           |
| 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   | <a href="#">UL Website</a> |
| 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, 7cl                              |
| 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                 | No                                                                                                                      |                   |        |                   |       |
| Vibration acceleration, min. (gravity g)     | -15                                                                                                                     |                   |        |                   |       |
| Cross sensitivity                            | <5 %                                                                                                                    |                   |        |                   |       |
| Temperature range measuring head             | <table> <tr> <td>Temperature, min.</td><td>-40 °C</td></tr> <tr> <td>Temperature, max.</td><td>85 °C</td></tr> </table> | Temperature, min. | -40 °C | Temperature, max. | 85 °C |
| Temperature, min.                            | -40 °C                                                                                                                  |                   |        |                   |       |
| Temperature, max.                            | 85 °C                                                                                                                   |                   |        |                   |       |
| Effective vibration velocity, max.           | 16 mm/s                                                                                                                 |                   |        |                   |       |
| Device is calibrated                         | Yes                                                                                                                     |                   |        |                   |       |
| Sensor measuring method acc. to ISO10816-3   | 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)     | 15                                                                                                                      |                   |        |                   |       |
| Measurement range                            | 4...20 mA ~ 0...16 mm/s, rms (standard)                                                                                 |                   |        |                   |       |
| Measuring unit vibration velocity (RMS)      | mm/s                                                                                                                    |                   |        |                   |       |
| Accuracy of temperature measurement          | 1 %                                                                                                                     |                   |        |                   |       |

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## Technical data

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| Number of measuring axes          | 1                                                          |
| Temperature measurement available | No                                                         |
| Transmission interval 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                          | ±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. | 700 mA                                               | No-load input current           | 120 mA                                      |
| IO-Link available   | No                                                   | Measuring and process variables | RMS vibration velocity                      |

## Housing

|                |                                                   |
|----------------|---------------------------------------------------|
| Basic material | Stainless steel 1.4305 (V2A), AISI 303 (standard) |
|----------------|---------------------------------------------------|

## 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 | External, DC | Wireless | No |
|----------------------|--------------|----------|----|

## Measuring voltage input

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

## 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 |

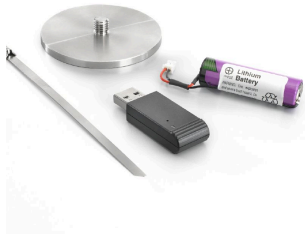
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## Accessories

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

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