

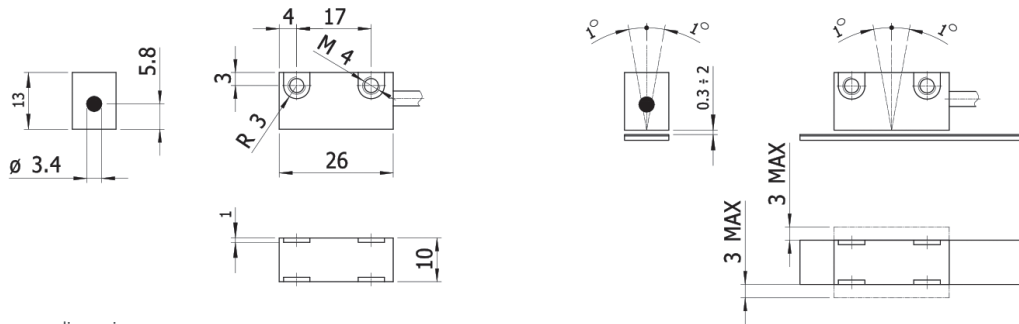


SERIE VIMS

DIGITAL READOUT WITH MAGNETIC SENSOR

- Magnetic detection without contact
- Easy assembly
- One axis Digital Readout with 6 ½ digit LCD and negative sign
- Programmable resolution
- Accuracy $\pm 20 \mu\text{m}$
- Polar pitch 2+2
- Wide alignment tolerances
- Magnetic Sensor of small overall dimensions
- Connection by cable (other cable length available)

| | | | | | |
|---------------------------|----------|-------------------------------|--------------|-----------------------|------------------|
| | | | | | |
| Linear measurement system | Magnetic | Vibration and shock resistant | Sensor IP 67 | Digital Readout IP 43 | Express Delivery |



Drawing VIMS sensor dimensions

REFERENCE Reference example: VIMS-2BM02

| Serie | Pole pitch | Power supply | Connection | Special customer |
|--------|--------------------------|--|--|---|
| VIMS - | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input type="checkbox"/> |
| | 2. 2+2 mm | B. Batteries E. External power supply (1,5...5 V) | M02. 2 meter cable | |

Configurable settings instructions in VIMS reference manual, section 9.

BAND REFERENCE

Serie

CSM

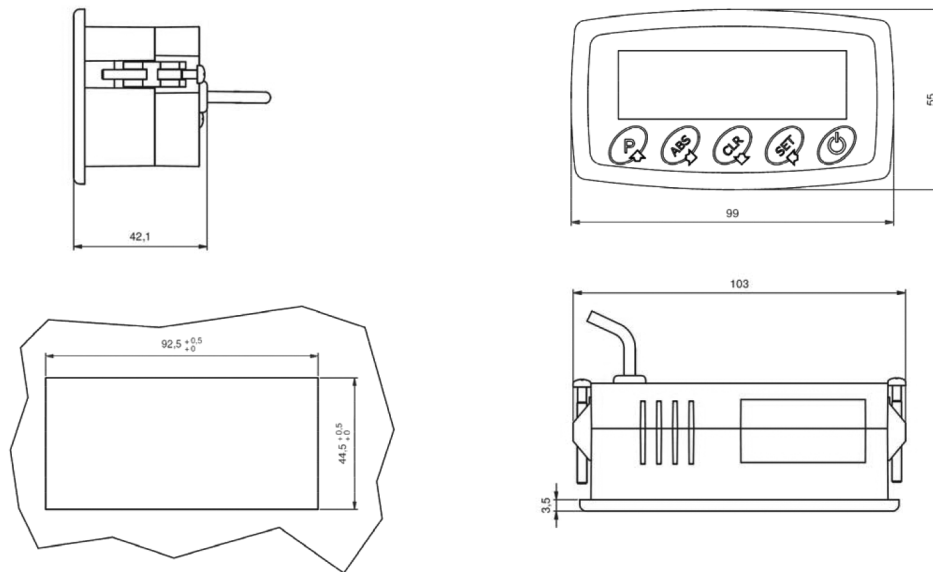
Band length: mm

For a better protection of magnetic band from shavings, liquid sprinklings, powder, etc. we suggest to always use the stainless steel cover PS, already equipped with a double-sided adhesive tape, or the aluminium support AP (see accessories).



SERIE VIMS

DIGITAL READOUT WITH MAGNETIC SENSOR



Drawing VIMS digital readout dimensions

MECHANICAL AND ELECTRICAL SPECIFICATIONS

| | |
|-----------------------------|--|
| Display | 6 ½ digits LCD h = 13 mm and negative sign |
| Programmable resolution | 1.0 - 0.1 - 0.05 - 0.01 mm 0.01 - 0.001 - 1/16 - 1/32 - 1/64 inch 1° - 0.1° - 0.01° - 0.001° angular |
| Repeatability | ± 1/2 digit |
| Power supply | Batteries x2 LR6 AA External (1,5...5 V) |
| Operating temperature range | 0°C to +50°C |
| Storage temperature range | -20°C to +70°C |
| Humidity | 95% (not condensed) |

READOUT

| | |
|-----------------------------|--|
| Weight | 100 g |
| Vibration (EN 60068-2-6) | 25 m/s ² (55Hz...2000Hz) |
| Protection class (EN 60529) | IP 43 |

CABLE - 6 cores Ø 3,4 mm

| | |
|------------------------|-------|
| Minimum bending radius | 25 mm |
| Length | 2 m |

SENSOR SPECIFICATIONS

| | |
|--|--------------------------------------|
| Maximum speed | 4 m/s |
| Sensor - magnetic band gap | 0,3...2 mm |
| Accuracy | ± 20 µm |
| Magnetic band to be used with – pole pitch | CSM (2+2mm) |
| Vibration (EN 60068-2-6) | 300 m/s ² (55Hz...2000Hz) |
| Shock (EN 60068-2-27) | 1000 m/s ² (11 ms) |
| Protection class (EN 60529) | IP 67 |

SERIE VIMS

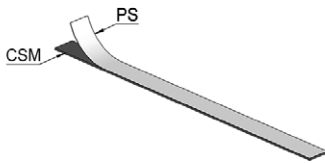
DIGITAL READOUT WITH MAGNETIC SENSOR

BAND SPECIFICATIONS

| | |
|-----------------------------|--|
| Pole pitch | 2+2 mm |
| Accuracy at 20°C | ±30 µm/m |
| Width band | 10 mm |
| Thickness band | 1,3 mm |
| Maximum length | 50 m |
| Thermal expansion | $10,5 \times 10^{-6} \text{ }^\circ\text{C}^{-1}$ T ref = 20°C ± 0,1°C |
| Bending radius | ≥ 130 mm |
| Operating temperature range | 0°C to 70°C |
| Storage temperature range | -20°C to 80°C |

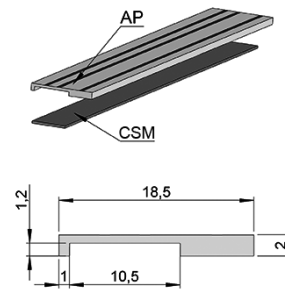
ACCESSORIES


PS: Cover for band protection



Stainless steel cover for protection.
To be placed in the magnetic band (10 mm width - 0.3 mm thickness).

AP: Aluminium support



 It is not possible to use the support AP if the magnetic band is already covered by PS band protection.

INSTALLATION AND HANDLING

1. Degrease the surface you want to place the magnetic band by using alcohol and dry it carefully.
2. Place the band and keep it aligned with the reader head ensuring the magnetic part is just next to the sensor.
3. Place the cover PS or the support AP, if provided.
4. The max. adhesion will be achieved after 48 hours from sticking.
5. Keep other magnetic parts clear from the tape.
6. Store and roll up the tape keeping the magnetic strip on the outside, in order to avoid tensions.

WARNING

WHAT TO AVOID

1. All mechanical reworks (Cutting, drilling, face milling a.s.o.).
2. All mishandling.
3. Impacts and external stress.
4. Avoid other magnetic fields.

