



Motor feedback systems linear HIPERFACE® TTK70

MVM-03M-2MC-MKLB

Model Name > [MVM-03M-2MC-MKLB](#)
Part No. > [6037421](#)

At a glance

- Non-contact determination of the absolute position
- Small and compact read head
- Standard SSI interface with SinCos-Output
- further Interface: HIPERFACE®, PROFIBUS, CANopen, DeviceNET (via adapter)
- Measuring lengths up to 4 meters
- High accuracy ($\pm 10 \mu\text{m}$)
- High system resolution (1 μm with SSI, 3.906 μm with fieldbus)
- High movement speed up to 10 m/s

Your benefits

- Smallest absolute linear encoder with fieldbus interfaces, making it possible to integrate with existing systems
- Fieldbus interface can be changed without changing the encoder
- High process dynamic because of compact housing, light weight and high speed
- Once installed, the system is completely maintenance free, saving time and costs
- Immune to environmental factors, i.e., dirt and condensation
- Real-time speed measurement plus absolute positioning due to the SinCos-and SSI-Output



Performance

| | |
|------------------------|---------------|
| Length of period: | 1 mm |
| Measuring length: | 4,000 mm |
| Magnetic strip length: | 3 m |
| System part: | Magnetic tape |

Mechanical data

| | |
|---------------------------------------|--|
| Mass: | 0.18 kg/m |
| Width: | 10 mm |
| Tape Thickness (without cover strip): | 1.4 mm |
| Coefficient of thermal expansion: | 11 $\mu\text{m}/^\circ\text{C}/\text{m}$ |
| Material: | 17410 Hard ferrite 9/28 P |
| Material mounting tape: | Stainless steel |

Ambient data

| | |
|---|-------------------------------------|
| Working temperature range: | -20 °C ... 70 °C |
| Maximum permitted ambient field strength: | < 150 kA/m (< 190 mT) ¹⁾ |

Protection class standard: IEC 60529
Air humidity: 100 % ²⁾
Storage temperature range: -30 °C ... 80 °C, without package

¹⁾ To ensure that the magnetic tape is not permanently damaged ²⁾ Condensation allowed

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