



## Motor feedback systems linear HIPERFACE® TTK70

MVM-01M-2MC-MKLB

**Model Name** > [MVM-01M-2MC-MKLB](#)  
**Part No.** > [6037417](#)

#### 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  $\mu\text{m}$  with SSI, 3.906  $\mu\text{m}$  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

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

#### Mechanical data

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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

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

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

<sup>1)</sup> To ensure that the magnetic tape is not permanently damaged <sup>2)</sup> Condensation allowed

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