



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 ($1 \mu\text{m}$ 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

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:	$-20^\circ\text{C} \dots 70^\circ\text{C}$
Maximum permitted ambient field strength:	$< 150 \text{ kA/m} (< 190 \text{ mT})^1$

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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