



Motor feedback systems linear HIPERFACE® TTK50

MVM-1MO-2MC-MKLB



Model Name > MVM-1M0-2MC-MKLB
Part No. > 6049001



Illustration may differ

At a glance

- Absolute, non-contact, wear-free length measurement system for linear motors
- Measured lengths of up to 1 m
- Suitable for high traverse speeds of up to 10 m/s
- Reliable location positioning even in the event of condensation and contamination of the magnetic tape
- Electronic type label and programming of the position value
- Absolute location positioning, no reference run
- HIPERFACE® interface
- Conforms to RoHs

Your benefits

- Reference traverse no longer necessary due to absolute measuring system
- Maintenance-free thanks to non-contact measuring principle
- Simple integration of the system due to the HIPERFACE® interface
- Developed specifically for use in linear direct drives
- Also for use in rough ambient conditions



Performance

Length of period:	1 mm
Measuring length:	940 mm
Magnetic strip length:	1 m
System part:	Magnetic tape

Mechanical data

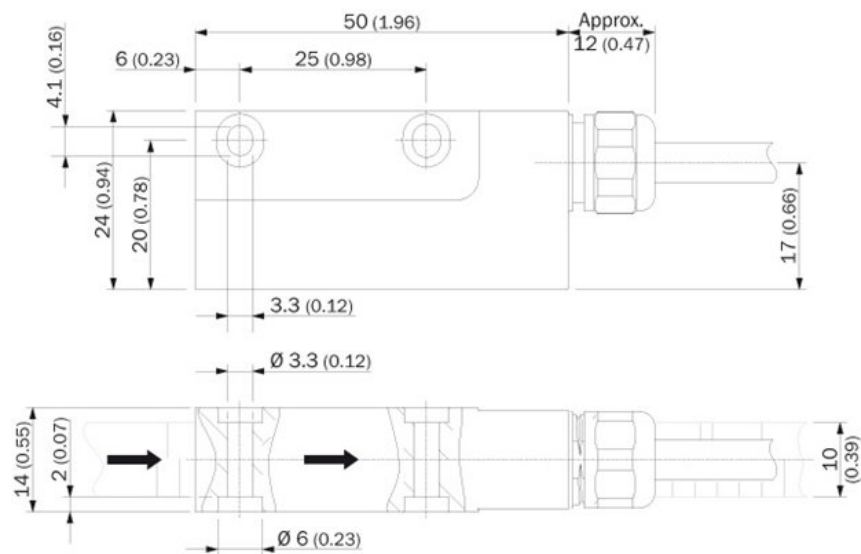
Mass:	0.18 kg/m
Width:	10 mm
Tape Thickness (without cover strip):	1.4 mm
Coefficient of thermal expansion:	11 µm/°C/m
Material:	17410 Hard ferrite 9/28 P
Material mounting tape:	Stainless steel

Ambient data

Working temperature range:	-20 °C ... 70 °C
Storage temperature range:	-30 °C ... 80 °C, without package
Maximum permitted ambient field strength:	< 150 kA/m (< 190 mT) ¹⁾

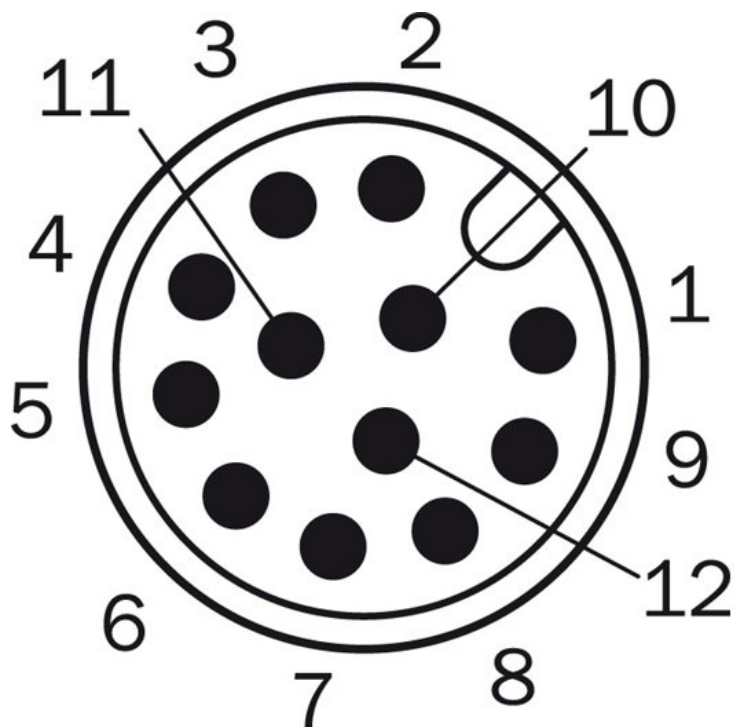
- 1) To ensure that the magnetic tape is not permanently damaged

Dimensional drawing

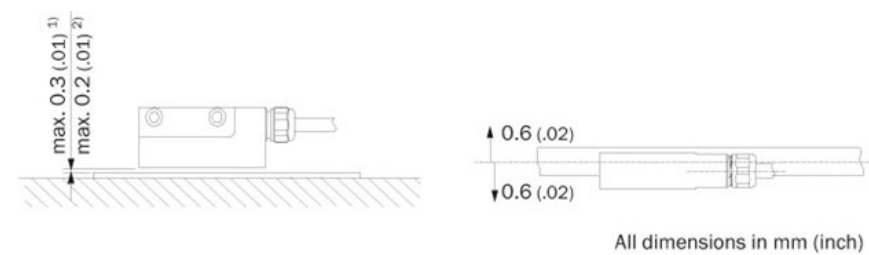


All dimensions in mm (inch)

Magnetic tape



General tolerances



¹⁾ Without cover strip.
²⁾ With cover strip.
General tolerances acc. to DIN ISO 2768-mk.

Wire allocation

Color of wires	Signal	Explanation
Brown	REFSIN	Process data channel
White	+ SIN	Process data channel
Black	REFCOS	Process data channel
Pink	+ COS	Process data channel
Gray or yellow	Data +	RS-485 parameter channel
Green or purple	Data -	RS-485 parameter channel
Blue	GND	Ground connection
Red	+U _s	Encoder supply voltage
Copper braid	Screen	Screen connected with encoder housing

Electronically adjustable via programming tool

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