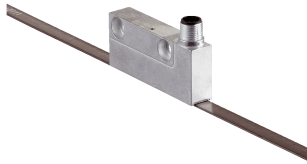


## TTK70

Position and speed measurement for linear direct drives

**SICK**  
Sensor Intelligence.



## Technical data overview

<b>Measuring length</b>	0 m ... 3.92 m
<b>Communication interface</b>	SSI, HIPERFACE® (depends on variant)
<b>Communication Interface detail</b>	Sin/Cos
<b>Resolution</b>	1 µm
<b>Connection type</b>	Male connector, M12, 12-pin Male connector, M12, 8-pin Cable, 8-wire (4 x 2 x 0.15 mm <sup>2</sup> )
<b>Safety system</b>	- / ✓ (depends on variant)

## Product description

Precision, speed and dynamics play a particularly important role in the measurement of linear movements. The compact linear measurement system TTK70 with HIPERFACE® or SSI interface fulfills all these properties. The magnetic principle of operation, the long measuring lengths, and the extremely high resolution open up all kinds of application possibilities for absolute position and speed recording. The non-contact measuring system consists of a compact read head and magnetic tape. The read head is responsible for recording position values. The magnetic tape is the measuring element and features a magnetic division into an incremental and an absolute track.

## At a glance

- Non-contact absolute position and speed recording
- With HIPERFACE® or SSI interface
- Measurement lengths of up to 4 m
- For high traversing speeds of up to 10 m/s
- Reliable measurements, even in the event of contamination and condensation on the magnetic tape
- Small, compact read head
- Certified according to SIL2 and PL d (HIPERFACE® interface)

## Your benefits

- Available with the HIPERFACE® and SSI interfaces
- Measurement lengths of up to 4 m
- Maintenance and wear-free thanks to non-contact measurement principle
- Compact design, low weight, and high traversing speed
- Immune to ambient conditions such as contamination and condensation
- No need for a reference run due to the absolute position recording
- Certification allows for easy integration into a safe drive system

## Fields of application

- Linear motors
- Pick & Place applications

## Ordering information

Other models and accessories → [www.sick.com/TTK70](http://www.sick.com/TTK70)

Communication interface	Safety system	Connection type	Type	Part no.
HIPERFACE®	✓	Cable, 8-wire (4 x 2 x 0.15 mm <sup>2</sup> ), 0.5 m	TTK70S-HXJ0-K02	1099701
		Cable, 8-wire (4 x 2 x 0.15 mm <sup>2</sup> ), 1 m	TTK70S-HXI0-K02	1099702
		Male connector, M12, 8-pin	TTK70S-HXA0-K02	1099700
	-	Cable, 8-wire (4 x 2 x 0.15 mm <sup>2</sup> ), 0.5 m	TTK70-HXJ0-K02	1063567
		Cable, 8-wire (4 x 2 x 0.15 mm <sup>2</sup> ), 1 m	TTK70-HXI0-K02	1068879
		Male connector, M12, 8-pin	TTK70-HXA0-K02	1037434
SSI	-	Male connector, M12, 12-pin	TTK70-AXA0-K02	1038033

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)