



Linear encoders KH53

KHU53-XXX00054

Model Name > [KHU53-XXX00054](#)
Part No. > [1035446](#)



At a glance

- Non-contact length measurement - maintenance-free, rugged, long lifetime
- High reproducibility (0.3 mm / 1 mm), high system resolution (0.1 mm)
- SSI and PROFIBUS interfaces
- Determination of absolute position
- Measuring lengths of up to 1,700 m possible
- Can be used in harsh environments
- High travel speeds of up to 6.6 m/s
- Distance tolerance between read head and measuring element: up to 55 mm $\pm$ 20 mm possible

Your benefits

- After installation, the system is immediately available and completely maintenance-free, which leads to time and cost savings.
- Reliable determination of position under harshest environmental conditions such as influences of dirt, dust, fog, shocks and vibrations
- High efficiency and productivity
- Savings on time - no reference run necessary on initial operation due to absolute position measurement
- accurate positioning even with high mounting tolerances



Mechanical data

Mass:	0.65 kg per meter
Material:	AlMgSi0,5F22

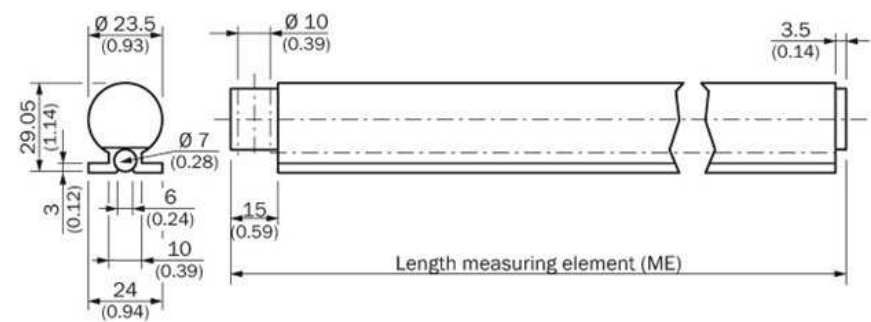
Electrical data

Code type:	Universal configurable
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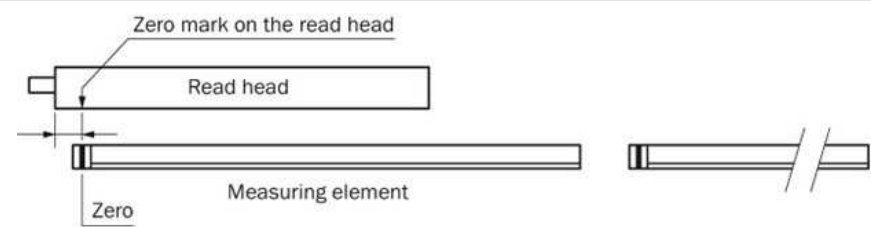
Ambient data

Resistance to shocks:	50 g, 10 ms (DIN EN 61000-2-27)
Resistance to vibration:	30 g, 20 Hz ... 250 Hz (DIN EN 61000-2-6)
Coefficient of thermal expansion:	28 $\mu\text{m}/^{\circ}\text{C}/\text{m}$

Dimensional drawing



Position tolerance



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