

POSITION MEASUREMENT SYSTEMS FOR LINEAR AXES

PRECISE POSITIONING STARTS HERE

If the accuracy of a linear axis provided by the drive element is insufficient for the application, a distance measuring system improves positioning and repeatability. Depending on the requirements regarding the measuring principle, interface and signal period, both incremental and absolute distance measuring systems are available.

Depending on the series, these are either mounted externally on the slide or, as with the HT-L linear motor axes, integrated into the axis to save space. For zero-movement commutation of the HT-L linear motor axes, the HIWIN MAGIC position measurement system can also be combined with HIWIN's digital hall sensor.

Your benefits:

- Incremental and absolute position measurement systems available
- High positioning and repeatability accuracy
- Optimised for HIWIN linear axes
- Ideal for automation and mechanical engineering applications
- Seamless integration into existing systems
- Available for the HM-B, HM-S, HT-B, HT-S and HC-B series
- Integrated as standard on the HT-L linear motor axes

NEW
ABSOLUTE POSITION
MEASUREMENT SYSTEM
APM



Precision in every movement.

Incremental distance measuring system

The tested solution for precise positioning tasks

Incremental position encoders offer a reliable and cost-effective solution for measuring linear motion. They are suitable for a wide range of automation and positioning applications.

- Sine/cosine 1 VSS or TTL output
- High resolution
- Cost-effective solution

NEW: APM Absolute Position Measurement System

Know your position. Instantly.

The APM Absolute Position Measurement System provides the current position immediately after switch-on. There is no need for reference runs, which means machines are ready to operate instantly more quickly and availability is increased.

- Immediate position determination
- No referencing required
- Higher machine availability

Distance measuring system	Interface		Measurement principle	HM-B	HM-S	HT-B	HC-B	HT-L
MAGIC analogue	Incremental	1 V _{SS} (analogue) ¹⁾	Magnetic	X	X	X	X	X
MAGIC analogue, Hall-Sensor digital	Incremental	1 V _{SS} (analogue) ¹⁾	Magnetic	-	-	-	-	X
MAGIC digital	Incremental	TTL (digital) ¹⁾	Magnetic	X	X	X	X	X
MAGIC digital, Hall-Sensor digital	Incremental	TTL (digital) ¹⁾	Magnetic	-	-	-	-	X
LIC 211	Absolute, EnDat 2.2	EnDat 2.2	Optical	-	-	-	-	X
BML-S1G0 BiSS-C	Absolute, 32-bit	BiSS-C, 1 V _{SS}	Magnetic	-	-	-	-	X
BML-S1G0 SSI	Absolute, 26-bit	SSI 1 V _{SS}	Magnetic	-	-	-	-	X
APM BiSS-C	Absolute	BiSS-C, 1 V _{SS}	Magnetic	X	X	X	X	X

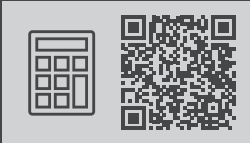
¹⁾ Compatible with all standard servo drives and the HIWIN ED1 servo drive. Further information on HIWIN servo drives can be found in the 'Servo Drives and Servo Motors' catalogue or at hiwin.de/en.

APPLICATIONS AND DOWNLOADS

CAD CONFIGURATOR



SIZING TOOL



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