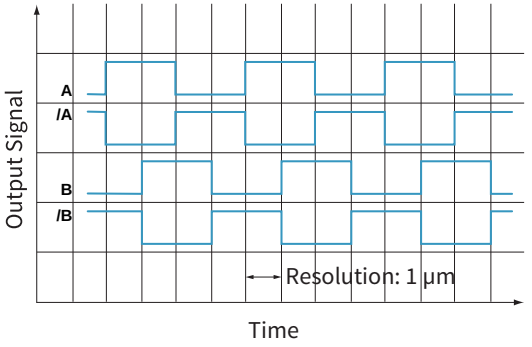
External Position Sensor

Non-contacting measuring position sensors, using magnets with integrated processing electronics and differential encoder outputs for the LinMot Servo Drives.

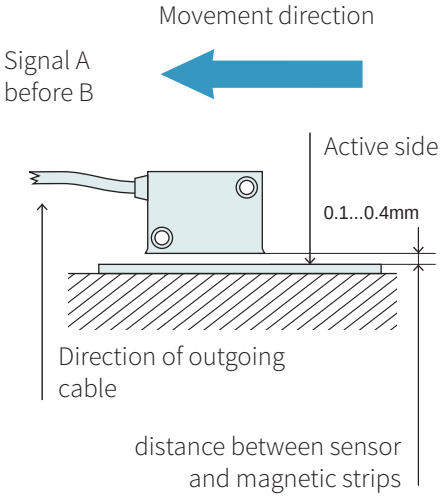
Together with the MB01-1000 magnetic band , the MS01/D position sensor is part of a high-resolution, robust, linear measurement system.

Features:

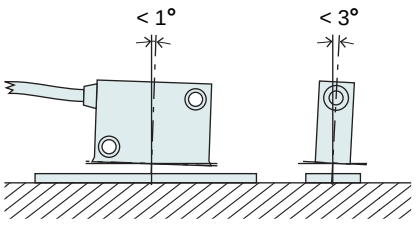
- Simple installation, by sticking on the magnetic band
- IP67 protection class, not sensitive to dust, moisture, or dirt
- Status display with LEDs directly at the sensor head
- Highest precision-
  Resolution 0.001 mm
  - System accuracy ±0.01 mm
- Allows high travel speeds of up to 3 m/s



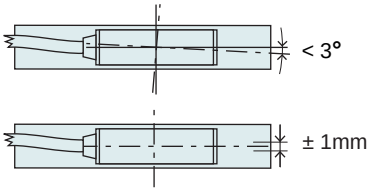
COUNTING DIRECTION



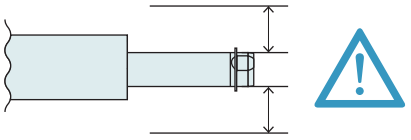
INSTALLATION



Maximum alignment error



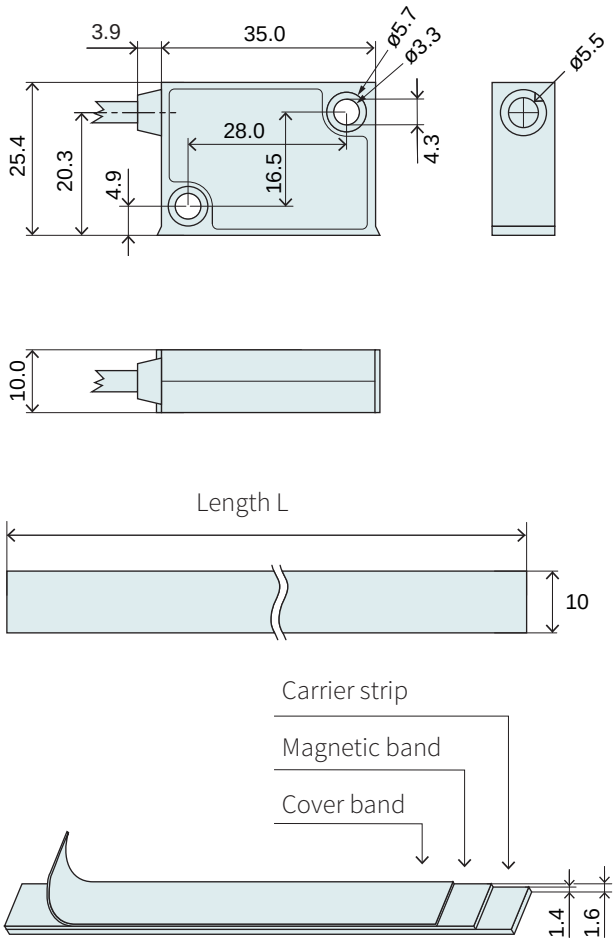
MINIMUM DISTANCE FROM SLIDER



In order to rule out influence of the magnetic LinMot slider on the position measurement, the following minimal distances to the magnetic strip should be observed:

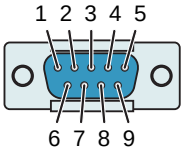
Linear Motor:	Minimum distance:
P01-23...	30 mm
P01-37...	40 mm
P01-48...	60 mm
P10-54...	60 mm
P10-70...	50 mm

DIMENSIONS



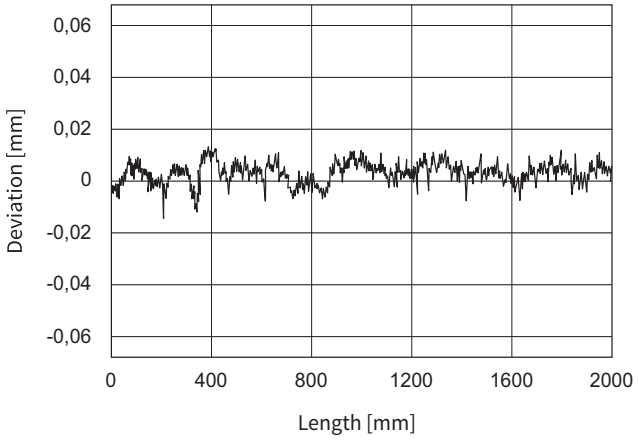
Cable	
Cable length	2 m, High Flex, PUR
Connector type	Dsub-9 (male)

Connector wiring



Pin 1	+5VDC
Pin 2	Kanal /A
Pin 3	Kanal /B
Pin 5	GND
Pin 6	Kanal A
Pin 7	Kanal B
Pin 4, 8, 9	n.c.

Technical data magnetic band	
Order length	maximal stroke +3.0 cm
Width	10 mm
Carrier material	Spring steel band
Precision class	± 10 µm/m
Temperature coefficient	(11 ± 1) x 10-6 / °K
Storage temperature range	-20...70°C
Storage temperature range	-40...70°C
Protection class	IP 67
Mounting	Self adhesive magnetic band



ORDERING INFORMATION

Item	Description	Item-No.
MS01-1/D	Linear Encoder 1µm, A/B(for incremental strip)	0150-1840
MB01-1000	Magnetic incremental strip for MS01-1/D, per cm	0150-1963
KS025-D/D-Encoder	Encoder Cable, High Flex (Length in m)	0150-3166
KS025-D15/D-Encoder	Encoder Cable, High Flex (Length in m)	0150-3168

LinMot®

Larraioz elektronika

SERVICIO TÉCNICO, CONSULTORÍA, TRAINING Y CANAL DE VENTA OFICIAL

Instalaciones centrales

Francisco Aristeguieta Centro Tecnológico (F.A.C.T.)
GI-3162 (Zarautz – Urdaneta) km 2,2
E-20809 AIA (Gipuzkoa), Spain

www.larraioz.com

Tel. (+34) 943 140 139
Fax. (+34) 943 140 327
E-mail. info@larraioz.com

Instalaciones en Getaria

Larraioz Etxea, Eizaga Auzoa, Garate Mendi E-20808
GETARIA (Gipuzkoa), Spain

Instalaciones América Latina

Carlos Calvo 2480, B8000XAV
Buenos Aires (Buenos Aires), Argentina

Dirección postal

Larraioz Electrónica Industrial, S.L. Apartado de Correos 193 E-20800 ZARAUTZ (Gipuzkoa), Spain

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