

Linear Encoder MS01-1/D

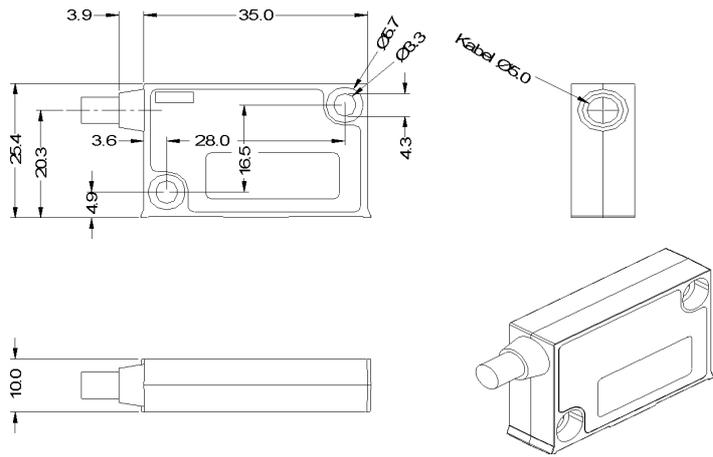
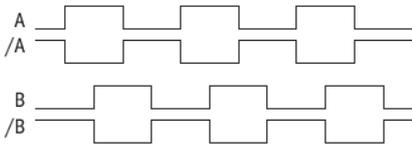
Contact less measuring sensor unit with integrated translation module and digital differential signal output for the servo Controllers Series E1100.

In combination with the MB01-1000 magnetic strip, the magnetic position sensor forms a precise, robust linear measuring system.



Features:

- Easy mounting
- Status LED's
- Resolution 1µm
- System accuracy ±0.01mm
- Real time data processing
- Protection class IP67
- High Flex cable



Cable Length: 2m, high flex
 Connector: Dsub-9 (male)
 Outputs: Differential (RS422)

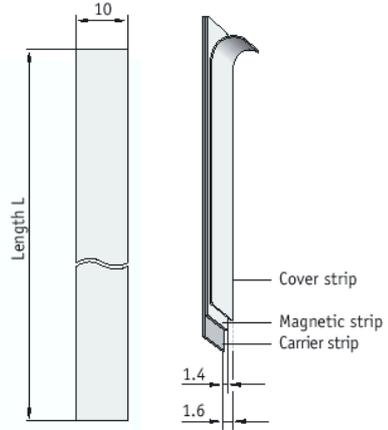
Pin 1 +5VDC
 Pin 2 Channel /A
 Pin 3 Channel /B
 Pin 5 GND
 Pin 6 Channel A
 Pin 7 Channel B
 Pin 4, 8, 9 n.c.

Resolution	1µm	
Accuracy class	10µm	
Minimal pulse with	220ns	
Travel Speed	max. 3.6m/s	
Supply	5VDC	Max. 100mA
Output	Square signals A, /A, B, /B	Line driver RS422
Gap sensor / magnetic strip	0.1-0.4mm	
Lateral offset	max. ±1mm	
Angular offset	max. ±3°	
Interference protection class	3, according IEC801	
Humidity	100% rF	Condensation permissible
Temperature ranges	Working temperature -10...+70°C	Storage temperature -30...+80°C
Protection class	IP67 according DIN40050 (housing)	
Housing		
Cable	PUR	High Flex, 2m

Ordering Information		
Article	Description	Part No.
MS01-1/D	Linear Encoder, A/B, Resolution 1um (for 1mm strip)	0150-1840

Magnetic Strip MB01-1000

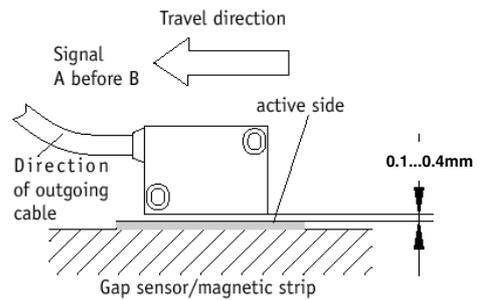
The magnetic band consists of a magnetic tape magnetized at regular distances and firmly joined with the carrier strip. For mounting a special adhesive tape is pre-mounted.



Features:

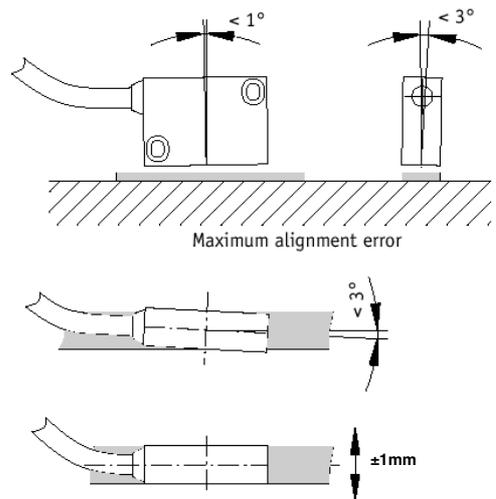
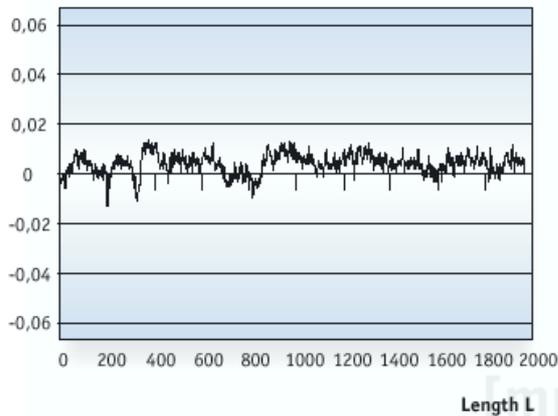
- easy mounting by simple glueing
- insensitive to humidity, liquids and oil
- insensitive to dust, shavings...
- highest accuracy

Feature	Ordering data	Technical data
Length	... A	length in meter, available in steps of 100 mm
Width	10 D	10 mm
Temperature coefficient		$(11 \pm 1) \times 10^{-6} / K$
Temperature ranges		working temperature: -20 ... +70 °C
Type of protection		IP67 according to DIN VDE 0470
Mounting type		glued joint



A Accuracy class: 10 μm

Deviation



Ordering Information		
Article	Description	Part No.
MB01-1000	Magnetic strip 1mm pitch (per cm)	0150-1963