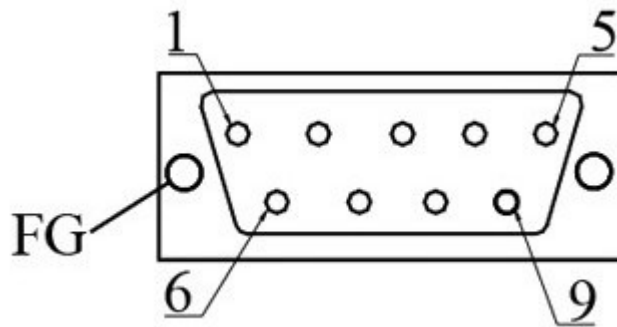


KA800MC

KA800MC open magnetic linear displacement sensor can be applied to digital display DRO and industrial control automation of various machine tools. It is easy to install, arbitrary cutting length, arbitrary pasting, no fear of oil cooling fluid, long service life, reproducible up to 0.005mm, non-contact relative displacement principle, no wear and tear! Don't worry that he will absorb iron pins. This will not affect its work. Many of our customers have proved that it can be used for ten years.

Product Brief

- Ka800mc-5 magnetic gate ruler is mainly suitable for middle and low precision
- Wood, stone, machine tools, digital display, etc. need to be processed and measured.
- Location and measurement in material processing.
- Ulnar band TR50 at 5 + 5mm intervals
- Use stainless steel belt, smooth paste
- Special aluminum shell and special protective steel
- Adhesive tape makes the tape better anti oil and waterproof.
- Dust prevention, improve the service life.
- Small volume, reading head, small space, easy to install.



1) suitable for: 9 core socket RS-422 signal output

Pin Position	1	2	3	4	5	6	7	8	9
Signal	\bar{A}	OV	\bar{B}	Empty	\bar{Z}	A	+5V	B	Z
Color	Green Black	Black	Orange black	FG	White black	Green	Red	Orange	White

2) suitable for: 9 core socket TTL signal output

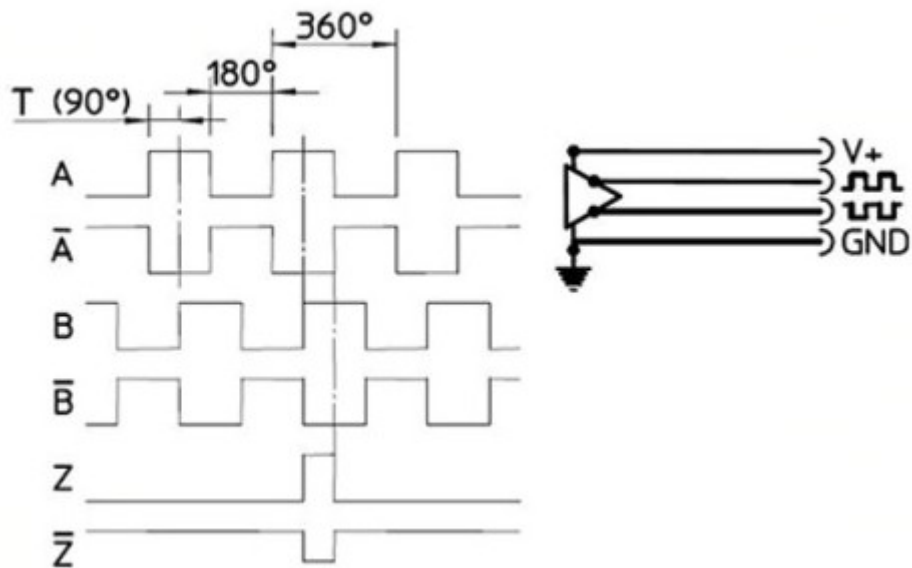
Pin Position	1	2	3	4	5	6	7	8	9
Signal	Empty	OV	Empty	Empty	Empty	A	+5V	B	Z
Color	—	Black	—	FG	—	Green	Red	Orange	White

Mechanical properties

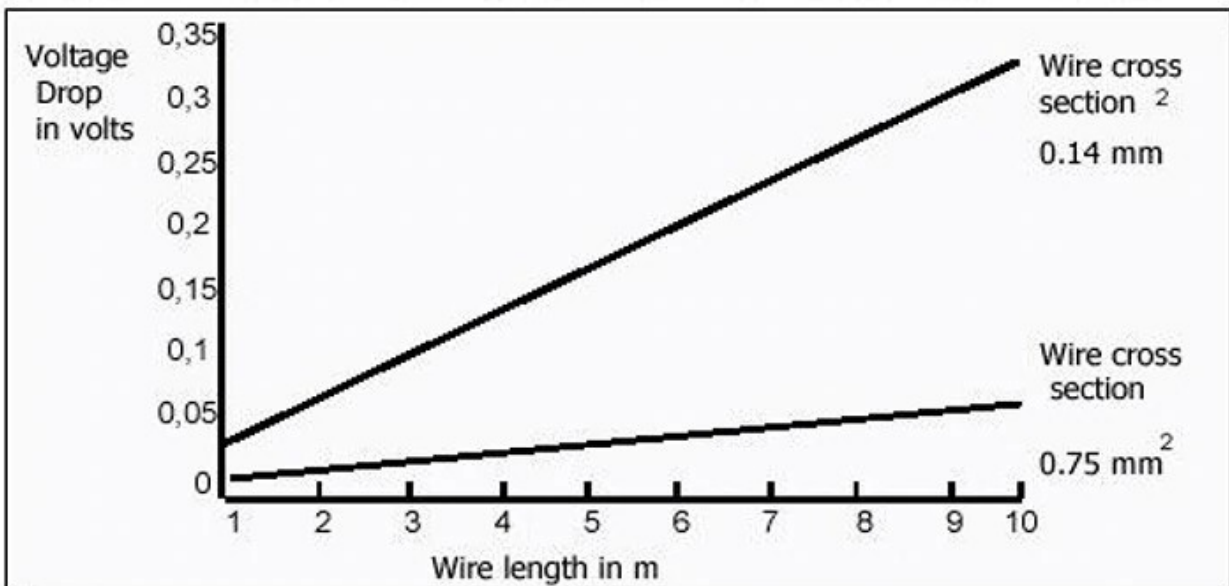
- Metal zinc alloy shell reading head.
- Three installation holes fixed reading head.
- The range of installation tolerances is large.
- Electrical characteristics
- TTL5V signals have line driven output,
- Wire using metal shields, more super
- Strong anti-interference ability.
- The signal has good stability.
- Maximum speed 5m/s
- technical parameter
- Reference signal per 5mm (C)
- Ruler band specification 5+5mm
- Resolution 5 μ m
- Accuracy $(0.035 + 0.02 \times L)$ mm, L as an effective meter
- The length of the unit is m
- Reproducible + 1 pulses
- Cable 5 core or 8 core
- Output form TTL or RS-422
- Cable (3 meters in standard length)
- Between the reading head and the protective steel strip gap 0.8 ~ 1.8mm
- Minimum winding radius 60mm power supply voltage 5VDC + 5%
- Connection line signal consumption current (no load) 40mA MAX
- Consumption of current (with load) 120mAMAX (5V, $R_L=120 \Omega$)
60mAMAX (28V, $R_L = 1.2k \Omega$)
- Maximum speed 5m/s (MS T 5)
- Shielded line P
- Anti vibration $100m/s^2$ [10Hz ~ 2000Hz]
- Anti impact $1000m/s^2$ (11ms)
- The standard reading head provides 3m cable.
- Long cable can be provided as required.
- The big line length is as follows:
 - LMAX=50m (read head and cable)
 - LMAX=100m (3m read head cable + extensionLong cable)
- Read head protection level IP 67 DIN 40050/IEC 529
- Working temperature -20 degree to 85 degrees C
- Storage temperature from -20 to 85 degrees C
- Moisture 100% does not condense
- Reading head weight 150g

- Polarity reversal protection and output short-circuit current protection for electrical protection power supply

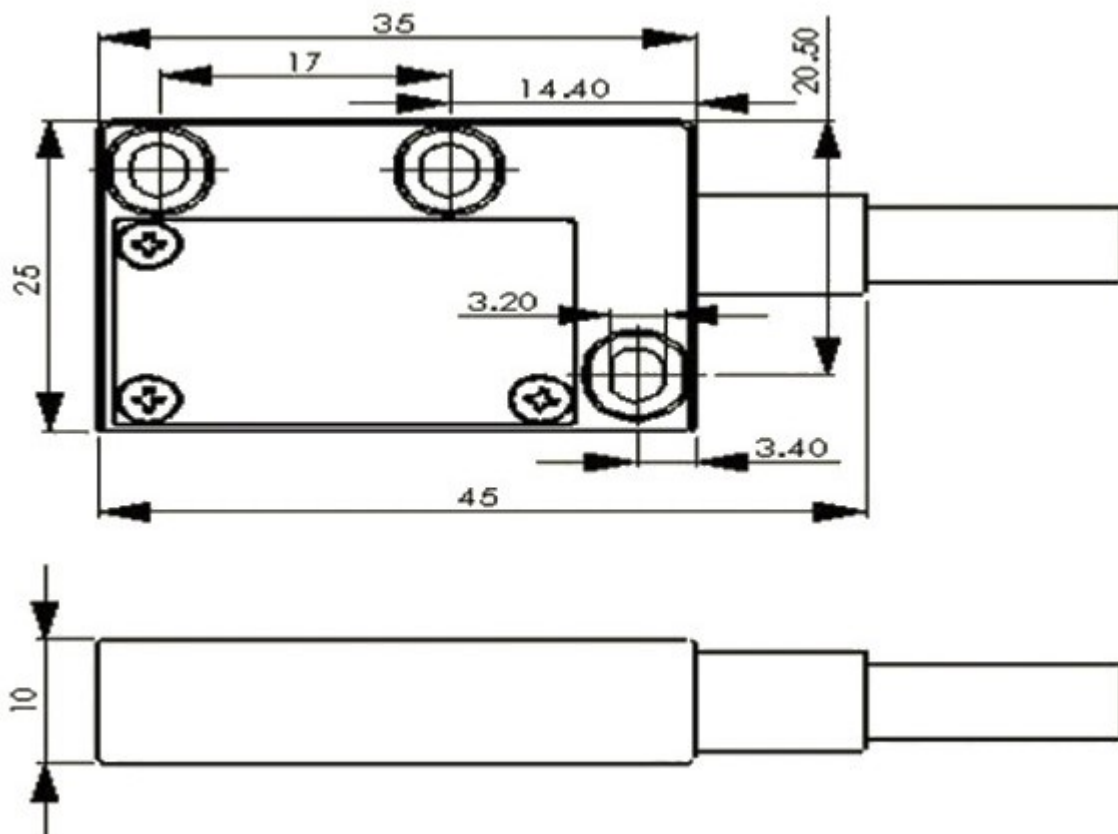
Sensor Output Signal



Sensor Voltage Attenuation Diagram



Dimensions



Technical parameters of ulnar belt

- Ruler band specification 5+5mm
- The precision 0.02mm/m at 20 degrees
- Width 10mm
- Thickness 1.45MM
- Maximum measurement length 100m
- Expansion coefficient $10.5 \cdot 10^{-6}/k$
- Minimum bending half - channel 130mm
- Operating temperature -20 degree ~ 70 degrees
- Storage temperature -40 degree ~ 90 degrees

