

Incremental Magnetic Sensing Head IKS9.3-Z1P2V5D1L2R1F1000T1C4E1



Width: 13 mm (Metal case)
Reference Signal: Periodic index signal,
from the pole pitch
Pole Pitch: 2 mm
Supply Voltage: 5 V
Interface: RS422
Cable Length: 2 m
Resolution: 1 μ m
Output Frequency: 1000 kHz
Cable Type: Standard quality (3.1 mm
diameter)
Connector: D-SUB 15 (male)
LED Mode: E1

Technical characteristics

- Inkrementaler magnetischer Messkopf
- Metallic housing
- Pole pitch 5 mm
- For linear and rotary scales
- Programmable

Benefits

- Non-contact, quick position measurement
- Precise
- Programmable
- No wear from usage
- Resistant to dust, cooling lubricant emulsion, oil, etc.
- Unlimited measuring length

Electrical and mechanical parameter

Pole pitch	
Signal period	2 mm
Resolution	1 μm
Repeatability	± 1 Increment
Voltageg	
Current consumption	65 mA ± 5 % (UB = 5 V)
Zulässige Last	
Protection class	± 1 Increment
Operating temperature	-20° ... +70° C
Humidt	
Maximum speed	
Interface	
Cable length	2 m
Connector	10 mm

Output signals

Output circuit	
Clock frequency	
Tc	
Signal	A, /A, B, /B, Z , /Z
Signal amplitude	5V
Reference voltage U ₀	
Phase shift A and B	90° ± 10° electrical
Maximum frequency (at 2 m/s)	

V+	red
V-	blue
A	brown
/A	green
B	grey
/B	yellow
CK	pink
/CK	white
D	
/D	
SCH	

Dimensions

Magnetics that count

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<https://www.bogen-electronic.com/en/magnetic-measurement-solutions/sensing-heads/incremental/linear/00051660.html>

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