

## Incremental Magnetic Sensing Head IKS9.1-Z1.100P2V5D1R1F1000T4L2C4E1



Width: 11 mm (metal case)  
Reference Signal: 1.100  
Pole Pitch: 2 mm  
Supply Voltage: 5 V  
Interface: RS422  
Resolution: 1  $\mu$ m  
Output Frequency: 1000 kHz  
Cable Type: Special cable type ( $\varnothing$  3.1 mm)  
Cable Length: 2 m  
Connector: D-SUB 15 (male)  
LED Mode: 1  
Hysteresis: 1.95  $\mu$ m

### Technical characteristics

- Incremental magnetic sensor
- 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 $\mu\text{m}$
Repeatability	$\pm 1$ Increment
Voltageg	
Current consumption	65 mA $\pm 5$ % (UB = 5 V)
Zulässige Last	
Protection class	$\pm 1$ 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 <sub>0</sub>	
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


## Ordering Code

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<http://www.bogen-electronic.com/en/magnetic-measurement-solutions/sensing-heads/incremental/rotary/00051659.html>

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