

## Incremental Magnetic Sensing Head IKS9.1-Z2.50P2V5D1R1F3500T2L3C3E1



Width: 11 mm (metal case)  
Reference Signal: 2.50  
Pole Pitch: 2 mm  
Supply Voltage: 5 V  
Interface: RS422  
Resolution: 1  $\mu$ m  
Output Frequency: 3500 kHz  
Cable Type: Drag chain quality ( $\varnothing$  4 mm)  
Cable Length: 3 m  
Connector: D-SUB 9 (male)  
LED Mode: Remote support avail.  
Hysteresis: 1.95  $\mu$ m  
Error Behaviour: Standard

### Technical characteristics

- Incremental magnetic sensor
- Pole pitch 2 mm
- For linear and rotary scales

### 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	
Resolution	
Repeatability	
Voltageg	
Current consumption	65 mA $\pm$ 5 % (UB = 5 V)
Zulässige Last	
Protection class	IP67 (EN 60529)
Operating temperature	- 20°C. + 70°C
Humidt	
Maximum speed	
Interface	
Cable length	2 m
Connector	

**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+	
V-	
A	
/A	
B	
/B	
CK	
/CK	
D	
/D	
SCH	

**Dimensions**


Magnetics that count

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<https://www.bogen-electronic.com/en/magnetic-measurement-solutions/sensing-heads/incremental/linear/00053031.html>

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