

Order Code

IKS9 - W - Z - P - V - D - R - F - T - L - C - E

		Code ⁽⁸⁾	Explanation ⁽⁸⁾
W	width [mm]		9 mm (Plastic case)
		.1	11 mm (Metal case)
Z	reference signal (9,10)	Z1.50	periodic reference signal from the pole pitch, length of reference signal 50 counts
		Z1. ...	periodic reference signal from the pole pitch, length of reference signal ... counts ⁽¹¹⁾
		Z2. ...	from reference marks (requires 2-track magnetic tape with incremental track and reference track), length of reference signal ... counts ⁽¹¹⁾
P	pole pitch [mm]	P0.5	0.5 mm (not interoperable with Z2)
		P1	1 mm
		P2	2 mm
		P2.54	2.54 mm
		P5	5 mm
V	supply voltage [V]	V5	5 V
D	interface (9)	D1	RS422
		D3	Push-Pull TTL
R	resolution (9, *)	R0.25	0.25 µm (Standard for pole pitch 0.5 mm)
		R0.5	standard for pole pitch 1 mm
		R1	standard for pole pitch 2 mm
		R#...	...dpi (Standard for pole pitch 2.54 mm)
		R2.5	standard for pole pitch 5 mm
		R...	other non-standard resolutions, see section "Resolution and Speed" in table 1 on page 2
F	maximum output frequency per channel (9) [kHz]	F1000	1000 kHz
		F ...	other non-standard output frequencies, see section "Resolution and Speed" in table 1 on page 2
T	cable type	T2	drag chain quality (4 mm diameter) ⁽¹²⁾
		T99	customer specific cable
L	cable length	L1	1 m
		L3	3 m
		L m (maximum cable length: 6 m)
C	connector	C0	open leads (no connector)
		C3	D-SUB 9 (male)
		C4	D-SUB 15 (male)
		C7	M12 inline connector 8 pin
		C99	customer specific connector
E	LED Mode (9)	E0	LED Green: Low -> sufficient magnetic field Bright -> best performance
			LED RED: Error signalization with LED on
E1	LED Mode (9)	E1	LED Green: Low -> sufficient magnetic field
			Bright -> best performance
			LED RED: Error signalization with blinking codes, see on page 3

⁽⁸⁾ standard parameters are bold

⁽⁹⁾ user programmable parameters (optional IKS-Programming device necessary)

⁽¹⁰⁾ if no index signal is needed, please do not connect pin "Z" an "Z" on delivered connector

⁽¹¹⁾ length of index signal available from 1 to 256

⁽¹²⁾ recommended bending radius for permanently installed cables: 20 mm; for freely movable cables: 40 mm

⁽¹³⁾ R... for metric based pole pitches / R#... for inch based pole pitches

Ordering Example

IKS9-Z1.50P2V5D1R1F1000T2L3C3E1

IKS9 Magnetic Sensing Head,
width 9 mm,
with periodic reference signal,
reference length 50 counts,
2 mm pole pitch,
voltage 5 V,
interface RS422,
1 μm resolution,
max. output frequency 1000 kHz,
drag chain quality (4 mm diameter),
cable length 3 m,
D-SUB 9 (male) connector,
error signalization with blinking error codes

BOGEN can provide customised resolutions and cables. This is an example for a customized order code:

IKS9.1-Z2.50P2V5D1R0.244140625F3500T2L0.3C4E1

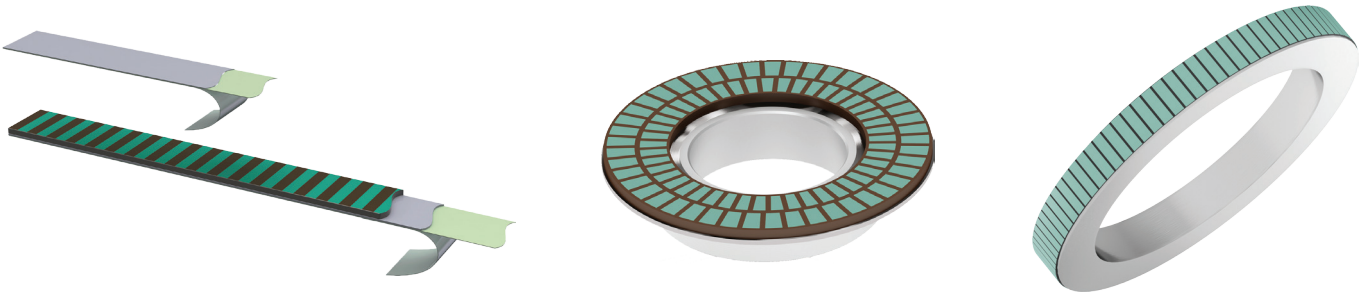
IKS9 Magnetic Sensing Head,
width 11 mm,
with reference signal from reference marks (2-track magnetic tape),
reference length 50 count,
2 mm pole pitch,
voltage 5 V, interface RS422,
0.244140625 μm resolution,
max. output frequency 3500 kHz,
cable length 0.3 m,
D-SUB 15 (male) connector,
error signalization with blinking error codes

Corresponding Linear and Rotary Magnetic Scales

BOGEN offers a comprehensive scope of standard and tailor-made scales in a variety of sizes and accuracy classes.

For more information on our standard linear and rotary magnetic scales, [please refer to our dedicated datasheets](#).

For your special requests, [please click here to contact our application engineers](#).



Optional Accessory

- programming unit for IKS9 [00053024]

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