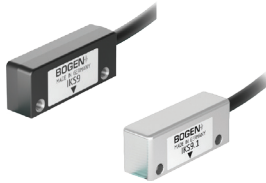
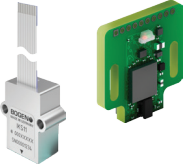




Incremental Magnetic Sensing Heads

BOGEN offers compact incremental magnetic sensing heads featuring extremely high accuracy and a particularly high degree of modularity. They deliver reliable measuring results even for fast movement speeds and an almost unlimited measuring length. BOGEN sensing heads come with a robust design for customers in automation, instrumentation and motion control applications. Several adjustable parameters allow easy modification of the sensing heads to application-specific needs.

				
	IKS9 / IKS9.1	IKS11/ IKP11	IKS15 / IKS15.1	IKS23
description	<ul style="list-style-type: none"> high performance encoder for high speed measuring linear and rotary applications available in plastic or die cast housing 	<ul style="list-style-type: none"> compact size linear and rotary applications for scales with or without index mark 	<ul style="list-style-type: none"> fast analog output interface (1 V_{pp}, 2 V_{pp}) non-contact quick position measurement 	<ul style="list-style-type: none"> linear and rotary applications non-contact quick position measurement
max. resolution	<ul style="list-style-type: none"> 0.02 to 500 µm, depending on pole pitch 	<ul style="list-style-type: none"> 0.02 to 500 µm, depending on pole pitch and interpolation 	<ul style="list-style-type: none"> depending on pole pitch 	<ul style="list-style-type: none"> 0.5 - 50 µm
distance sensor/scale	<ul style="list-style-type: none"> 0.1 to 2.5 mm, depending on pole pitch 	<ul style="list-style-type: none"> 0.1 to 2.5 mm, depending on pole pitch 	<ul style="list-style-type: none"> 0.1 to 2.5 mm, depending on pole pitch 	<ul style="list-style-type: none"> 0.1 - 2.0 mm, depending on pole pitch and cover tape
movement speed	<ul style="list-style-type: none"> > 100 m/s, depending on pole pitch, resolution and max. output frequency 	<ul style="list-style-type: none"> >100 m/s, depending on pole pitch, resolution and max. output frequency 	<ul style="list-style-type: none"> up to 5000 m/s, depending on pole pitch, resolution and max. output frequency 	<ul style="list-style-type: none"> max. 16 m/s
output signals interface	<ul style="list-style-type: none"> Line Driver RS422 Push-Pull (TTL) 	<ul style="list-style-type: none"> RS422 Push-Pull (TTL) 	<ul style="list-style-type: none"> sin/cos 1 V_{pp} sin/cos 2 V_{pp} 	<ul style="list-style-type: none"> Line Driver RS422 Push-Pull (HTL)
power supply	<ul style="list-style-type: none"> 5 V ± 5 % 24 V on request 	<ul style="list-style-type: none"> 5 V ± 10% (3.3 V on request) 	<ul style="list-style-type: none"> 5 V ± 5 % 7 - 32 V 	<ul style="list-style-type: none"> + 5 Vdc ± 5%, + 10 Vdc ÷ + 30 Vdc
electric connections	<ul style="list-style-type: none"> D-SUB 9 (male) D-SUB 15 (male) M12 inline connector 8 pin customer specific connector 	<ul style="list-style-type: none"> FFC connector solder pads 	<ul style="list-style-type: none"> cable cable + DSub/M12 inline connector 	<ul style="list-style-type: none"> D-SUB 9 (male) D-SUB 15 (male) M12 plug (male) customer specific connector
dimensions	<ul style="list-style-type: none"> IKS9 (plastic housing): 9 x 13.6 x 35 mm IKS9.1 (die cast housing): 11 x 14.1 x 36 mm 	<ul style="list-style-type: none"> 15.8 x 15.4 x 4.76 mm (FFC connector, solder pads) 15.8 x 13.4 x 4.76 mm (FFC connector) 7.8 x 13.4 x 4.76 mm (FFC connector) 	<ul style="list-style-type: none"> IKS9 (plastic housing): 9 x 13.6 x 35 mm IKS9.1 (die cast housing): 11 x 14.1 x 36 mm 	<ul style="list-style-type: none"> 10 x 25.4 x 40 mm
max. operating temperature	<ul style="list-style-type: none"> - 20 to + 70 °C (- 4 to +185 °F) 	<ul style="list-style-type: none"> - 40 to + 125 °C (-40 to + 257 °F) 	<ul style="list-style-type: none"> - 20 to + 70 °C (-4 to +158 °F) 	<ul style="list-style-type: none"> - 25 to + 85 °C (-13 to +185 °F)
IP code	<ul style="list-style-type: none"> IP67 	<ul style="list-style-type: none"> IKP11: IP00 IKS11: IP67 	<ul style="list-style-type: none"> IP67 	<ul style="list-style-type: none"> IP67
applications	<ul style="list-style-type: none"> linear motors printing factory automation 	<ul style="list-style-type: none"> robotics and handling systems automation medical technology 	<ul style="list-style-type: none"> linear motors printing factory automation 	<ul style="list-style-type: none"> linear motors factory automation