

# Digital Linear Gauge Sensor

## ■BS-1210/1310 Baby Gauge Sensor



### ■Features

- Ultra compact design
- Conforms to protection class IP66 (dust-proof and splash-proof)
- High durability, high vibration resistance, high shock resistance

### ■Specifications

Model name	BS-1210	BS-1310
Measurement range (mm)	10	
Resolution ( $\mu\text{m}$ )	10	1
Accuracy (at +20°C) ( $\mu\text{m}$ )	3	
Max. spindle velocity* (m/s)	1(4)	0.3(1.2)
Measurement force (downward) (N)	1.47 or less	
Protection class	IP66	
Stem diameter (mm)	$\Phi 8^{+0}_{-0.03}$	
Operating temperature range (°C)	0 to +50	
Outer dimensions (mm) (Whole length)	94.5	
Weight (g) (including cable, connector)	Approx. 110	

\*When used with Ono Sokki's Gauge Counter. The values within parentheses ( ) is the maximum spindle velocity with the DG-4320/4340/5100. (AA-8910 conversion cable is required for connecting with the DG-5100.)

## ■GS-3813B/3830B High Resolution Type



### ■Features

- High resolution (0.1  $\mu\text{m}$ ) type
- Conforms to protection class IP66G (vibration resistance structure, dust-proof, splash-proof and oil-proof)
- Achieve longer bearing life and high environment resistance

### ■Specifications

Model name	GS-3813B	GS-3830B
Measurement range (mm)	13	30
Resolution ( $\mu\text{m}$ )	0.1	
Accuracy (at +20°C) ( $\mu\text{m}$ )	1	
Max. spindle velocity* (m/s)	0.3(1.2)	
Measurement force (downward) (N)	2.3 or less	2.7 or less
Protection class	IP66G	
Stem diameter (mm)	$\Phi 15^{+0}_{-0.009}$	
Operating temperature range (°C)	0 to +40	
Outer dimensions (mm) (Whole length)	146.5	218.5
Weight (g) (including cable, connector)	Approx. 350	Approx. 420

\*The values within parentheses ( ) is the electrical response velocity when using the DG-5100.

## ■GS-1713A/1730A/1813A/1830A Basic Type



### ■Features

- Compact general purpose
- Conforms to protection class IP64 (dust-proof and splash-proof)
- \*Cut or modified signal cable connector is not applicable to CE marking.
- Using ball bearing increases the maximum number of sliding times of the spindle.

### ■Specifications

Model name	GS-1713A	GS-1730A	GS-1813A	GS-1830A
Measurement range (mm)	13	30	13	30
Resolution ( $\mu\text{m}$ )	10		1	
Accuracy (at +20°C) ( $\mu\text{m}$ )	3		2	3
Max. spindle velocity* (m/s)	1(4)		0.3(1.2)	
Measurement force (downward) (N)	1.3 or less	1.9 or less	1.3 or less	1.9 or less
Protection class	IP64			
Stem diameter (mm)	$\Phi 15^{+0}_{-0.009}$			
Operating temperature range (°C)	0 to +40			
Outer dimensions (mm) (Whole length)	141.5	205.5	141.5	205.5
Weight (g) (including cable, connector)	Approx. 250	Approx. 310	Approx. 250	Approx. 310

\*When used with Ono Sokki's Gauge Counter. The values within parentheses ( ) is the maximum spindle velocity with the DG-4320/4340/5100. (AA-8910 conversion cable is required for connecting with the DG-5100.)

## ■GS-6713A/6730A/6813A/6830A Vibration Resistant Type



### ■Features

- Compact general purpose
- Conforms to protection class IP64 (dust-proof and splash-proof)
- Vibration resistant and shock resistant structure
- \*Cut or modified signal cable connector is not applicable to CE marking.
- Suitable for mounting on automatic machine

### ■Specifications

Model name	GS-6713A	GS-6730A	GS-6813A	GS-6830A
Measurement range (mm)	13	30	13	30
Resolution ( $\mu\text{m}$ )	10		1	
Accuracy (at +20°C) ( $\mu\text{m}$ )	3		2	3
Max. spindle velocity* (m/s)	1(4)		0.3(1.2)	
Measurement force (downward) (N)	1.3 or less	1.9 or less	1.3 or less	1.9 or less
Protection class	IP64			
Stem diameter (mm)	$\Phi 15^{+0}_{-0.009}$			
Operating temperature range (°C)	0 to +40			
Outer dimensions (mm) (Whole length)	141.5	205.5	141.5	205.5
Weight (g) (including cable, connector)	Approx. 250	Approx. 310	Approx. 250	Approx. 310

\*When used with Ono Sokki's gauge counter. The values within parentheses ( ) is the maximum spindle velocity with the DG-4320/4340/5100. (AA-8910 conversion cable is required for connecting with the DG-5100.)

## ■GS-4713A/4730A/4813A/4830A Long life Type



### ■Features

- Long life and high environment resistance
- Two times longer bearing life than the existing model
- Dust-proof, splash-proof and oil-proof (protection class IP66G)
- \*Cut or modified signal cable connector is not applicable to CE marking.

### ■Specifications

Model name	GS-4713A	GS-4730A	GS-4813A	GS-4830A
Measurement range (mm)	13	30	13	30
Resolution ( $\mu\text{m}$ )	10		1	
Accuracy (at +20°C) ( $\mu\text{m}$ )	3		2	3
Max. spindle velocity* (m/s)	1(4)		0.3(1.2)	
Measurement force (downward) (N)	1.8 or less	2.4 or less	1.8 or less	2.4 or less
Protection class	IP66G			
Stem diameter (mm)	$\Phi 15^{+0}_{-0.009}$			
Operating temperature range (°C)	0 to +40			
Outer dimensions (mm) (Whole length)	145.5	209.5	145.5	209.5
Weight (g) (including cable, connector)	Approx. 325	Approx. 385	Approx. 325	Approx. 385

\*When used with Ono Sokki's gauge counter. The values within parentheses ( ) is the maximum spindle velocity with the DG-4320/4340/5100. (AA-8910 conversion cable is required for connecting with the DG-5100.)

## ■GS-5050A/5100A/5051A/5101A Long Stroke Type



### ■Features

- Long stroke type
- Protection class IP5X
- Displacement measurement of large objects such as building materials and large molded products can be measured with high accuracy

### ■Specifications

Model name	GS-5050A	GS-5100A	GS-5051A	GS-5101A
Measurement range (mm)	50	100	50	100
Resolution ( $\mu\text{m}$ )	10		1	
Accuracy (at +20°C) ( $\mu\text{m}$ )	10	12	4	5
Max. spindle velocity* (m/s)	1(4)		0.3(1.2)	
Measurement force (downward) (N)	2.9 or less	5.2 or less	2.9 or less	5.2 or less
Protection class	IP5X			
Stem diameter (mm)	$\Phi 15^{+0}_{-0.009}$			
Operating temperature range (°C)	0 to +40			
Outer dimensions (mm) (Whole length)	258.5	355	258.5	355
Weight (g) (including cable, connector)	Approx. 570	Approx. 655	Approx. 570	Approx. 655

\*When used with Ono Sokki's Gauge Counter. The values within parentheses ( ) is the maximum spindle velocity with the DG-4320/4340/5100. (AA-8910 conversion cable is required for connecting with the DG-5100.)