ONO∫OKKI

Linear Gauge Sensor

BS Series

BS-1210/BS-1310 Baby Gauge Sensor





Overview

The BS-1210 / BS-1310 Baby Gauge Sensors are made to detect various dimensions, displacements and travel distances. They are compact and tough, that is to say, they achieve excellent durability, vibration / shock resistance and noise resistance despite their small size.

Features

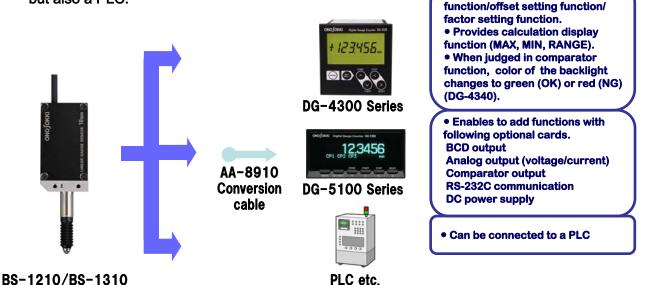
- Thin body and takes little space
- Superior water-resistance *
- Superior life time *
- Expanded temperature ranges *
- : Easy to install and maintain. Thickness 13 mm
- : Protection class IP64 → IP66
- : Number of sliding times 10 million times \rightarrow 30 million times
- : Operating temperature range +5 to +40 °C \rightarrow 0 to +50 °C Storage temperature range -10 to +55 °C \rightarrow -10 to +65 °C

Provides multiplication switching

* Compared to our existing model

Example of system configurations

• Can be connected to not only exclusive counters but also a PLC.



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Specifications

Model	BS-1210	BS-1310
Measurement range	<u>10 mm</u>	
Resolution	10 <i>µ</i> m	1 <i>µ</i> m
Accuracy	<u>3 μm (at +20 °C)</u>	
Maximum spindle velocity *1	1 (4) m/s	0.3 (1.2) m/s
Measurement force (downward)	1.47 N or less	
Number of sliding times	30 million times	
Vibration resistance (when the power is off) *2	98 m/s ² in each of the three axial directions (150 minutes per each), 20 cycles of 10 Hz to 150 Hz sweeping	
Shock resistance (when the power is off) *2	980 m/s ² in each of direction for each of three axes, three times for each of ±X, Y and Z directions (18 times total), sine half-wave, pulse duration 6 ms	
Protection class	IP66 (not including connector part)	
Operating temperature range	0 to +50 ℃	
Storage temperature range	-10 to +65 ℃	
Outer dimension	Total length 94.5 mm	
Cable length	From sensor to counter approx. 1.9 m	
Weight	Approx. 110 g (including cable)	
Accessory	Instruction manual	
	•AA-813 Mechanical release *3 •AA-816 Air release *3	
Options	•ST-022 Gauge stand •AA-973 Spare dust proof rubber •AA-844 (30 mm)/AA-845 (50 mm) Extension spindle •Various extension signal cables	
	•Various measurement tips *4	

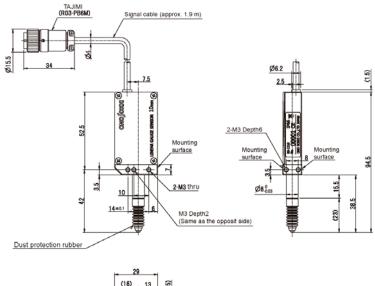
*1. When used with Ono Sokki's Gauge Counter. The values within parentheses () are the maximum spindle velocity used with the DG-4320/DG-4340/DG-5100/DG-3250.

*2 Vibration/shock resistance values described in above are not guaranteed during measurement operation.

*3 When using a release, IP66 is not guaranteed.

*4 When using a measurement tip, IP66 is not guaranteed because it is necessary to remove the dust proof rubber.

Outer dimensions





Release mouting hole cap

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* Outer appearance and specifications are subject to change without prior notice. URL: http://www.onosokkl.co.jp/Engllsh/engllsh.htm

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