Frictional Axial Strain Transducer FGAH-1B



This transducer measures axial strain of steering tie-rod of a car and consists of two types FGAH-1B-R and FGAH-1B-H for which a cross section of the rod is round shape or hexagon's. It is also suited to measure axial strain of a tension rod used in aseismic reinforcement structure or in steel frame structure. Since frictional strain gauges are used in this transducer, installation is completed and it gets ready for measurement by merely pinching the rod with the transducer, without detaching the rod. There is no need of technical skill and complicated works for attaching strain gauges on the rod.

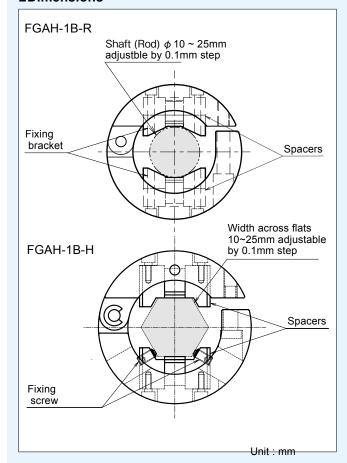
NB

Frictional strain gauges are consumable parts.
Applicable type of frictional strain gauges is CBFC-2 (option).





■Dimensions



Applicable not only for tie-rod of motor cars but also for tension rod of architectural structures

- Easily installed by just clamping-on without detaching the existing tie-rod
- Tensile force management of rod between sheet piles or in architectural structures is easily achieved – The transducer can be used repeatedly
- Applicable rod:

FGAH-1B-R : Diameter is 10 to 25mm FGAH-1B-H : Width cross flats 10 to 25mm

(Optional spacers are required)

 Small and light construction which allows installation in a narrow space

■Specifications

Type	FGAH-1B-R	FGAH-1B-H
Applicable shaft	Round shape φ 10 ~ 25mm	Hexagon shape Width across flats 10~ 25mm
Capacity	±1000×10 ⁻⁶ strain	
Rated output	Approx. 2600×10 ⁻⁶ strain	
Non-linearity	1%RO	
Allowable temperature range	-30 ~ +60°C (no dew condensation)	
Frequency response	Approx. 6.5kHz	
Input/output resistance	1000Ω±3%	
Dimensions	Approx. φ 52x35mm	
Weight	Approx.55g(excluding spacers and cable)	
Protection rating	Equivalent to IP51	
Recommended exciting voltage	2V	
Allowable exciting voltage	5V	
Input/output cable	ϕ 3.2mm 0.08mm² 4-core shielded vinyl cable 5m	

■Installation image

