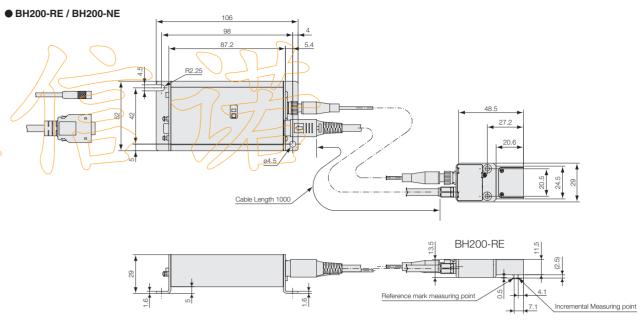
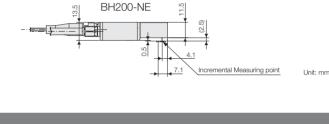
BH200-RE / BH200-NE (with origin) / (without origin)

Compact, reflective rotary Laserscale featuring high accuracy, high resolution, and high-speed response, Ideal for high-resolution angle measuring in HDD manufacturing equipment and precision measuring instruments



External Dimensions





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١.	Main specifi	Main specifications														
/	Model						$\overline{\ }$		BH200	RE			Т		BH200-NE	
	Reference point ⁻¹					$\overline{}$	Asy	nchron	ous, unidir	ectio	nal detec	tion			None	
	Detection method													Grating inte	erferometer	
	Light source		Semiconductor laser Wavelength: 790nm Output: 6mW or less													
	Pulse number/scale radius		907,200 pulses, scale detection radius: 36.1mm													
	Response speed		10MHz to 200MHz(660rpm to 13,000min ⁻¹)													
	Category temperature range		10 °C~30 °C (head) 0 °C~50 °C (detector part)													
	Storage temperature range		Thing to avoid high humidity there is no 10°C~50°C be dewy													
	The maximum response speed		13,000min ⁻¹													
Ī	Head angular tolerance	Pitching	±10min(output ±40%)													
		Azimuth	±10min(output ±40%)													
		Rolling	±10min(output ±40%)													
	Head position tolerance	ΔX	±70μm(output ±40%)													
		ΔΥ	±70μm(output ±40%)													
		ΔZ	±50μm(output ±40%)													
	Output signal		CLK signal(LVDS), 1/2 or 1/4 CLK signal(LVDS) ²													
	Input signal		Switch over 1/2 or 1/4(TTL)													
	Power supply		DC ±5V(±5%)													
	Maximum power c	ximum power consumption		DC +5V: 400mA, DC -5V: 200mA												
7	Operating temperature			+10 tg/+30 °C (head), 0 to +50 °C (detector)												
	Storage temperature		-10 to +50 °C No condensation Avoid operating under high humidity													
	Jitter (target) ⁻³		0.5 nsec (@5000rpm)													
	Optical fiber minimum bending radius			\)				50n	nm	

- *1 Zero pont.signal is asynchronous to CLK_1/2CLK and 1/4CLK signals. Detection is unidirectional.

 *2 1/2 or 1/4 signals to CLK signal frequency. No output with input frequency of 50MHz or less. 1/2 CLK and 1/4 CLK signals cannot be used simultaneously with CLK signal.

 *3 Jitter of CLK signal: Pulse duration variation at 1000 pulses(3 op-p). Measured by inspection equipment at Magnescale Corporation.

- 907,200 pulses/Rotation (r=36mm)
- Completely non-contact remote head
- Available with reference point (BH200-RE) and without reference point (BH200-NE)