

KEYENCE TECHNICAL DOCUMENT

Manufacturer's Manual

GT2-H32

Controlled reference summary from KEYENCE documentation

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PRODUCT IDENTITY

Manufacturer	KEYENCE
Model	GT2-H32
Series	GT2 High-Accuracy Digital Contact Sensor
Product type	32 mm digital contact sensor head

02 MEASUREMENT PRINCIPLE

GT2-H32 uses a quartz-glass scale and CMOS image-sensor projection. KEYENCE identifies it as an absolute sensor head without tracking error. Use the specified compatible amplifier and optional M8 sensor cable for a complete measurement system.

03 PERFORMANCE LIMITS

Measuring range	32 mm (1.26 in)
Resolution	0.5 micrometre (0.02 mil)
Indicated accuracy	3 micrometres p-p at 20 deg C
Measuring force	Downward 2.1 N; side 1.8 N; upward 1.5 N at range center
Sampling cycle	1 ms
Mechanical response	6 Hz
Indicator	Two-color LED: red and green
Enclosure rating	IP67
Operating temperature	-10 to +55 deg C; no freezing
Operating humidity	35 to 85% RH; no condensation

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APPLICATION GUIDANCE

- Measure thickness by comparing contact displacement at controlled reference points.
- Check component height where a non-contact sensor is unsuitable.
- Monitor runout with rigid fixturing and a repeatable contact path.
- Verify stroke distance within the 32 mm measuring range.
- Use the IP67 head where splash resistance is required; protect the connector and amplifier separately.

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CONTROLLED SOURCE

KEYENCE model page: <https://www.keyence.com/products/sensor/positioning/gt2/models/gt2-h32/> KEYENCE GT2 series:
<https://www.keyence.com/products/measure/contact-distance-lvdt/gt2/>