

GT2-H32

High-Accuracy Digital Contact Sensor Head

CONTROLLED ENGINEERING COPY

Mount GT2-H32 on a rigid fixture with the plunger aligned to the travel axis, select the cable and amplifier for the installed GT2 system, and verify zero, repeatable contact and full travel before production measurement.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	GT2-H32
Manufacturer part	GT2-H32
Hardware type	Quartz glass scale; CMOS image sensor projection; absolute type
System family	GT2 Series High-Accuracy Digital Contact Sensors



APTER POWER SALES TEAM

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01 PRE-INSTALLATION PLAN

- 1

Verify the GT2-H32 marking and the complete connected GT2 amplifier configuration before installation.
- 2

Remove power from the connected amplifier before attaching or detaching the M8 sensor-head cable.
- 3

Align the plunger with the measurement direction so the contact is not side-loaded.
- 4

Keep the contact, dust boot and connector free of chips, coolant residue and impact damage.
- 5

Select a mounting orientation whose measuring force is acceptable for the workpiece surface.

MATCHED HARDWARE

- GT2 compatible amplifier or communication unit
- optional M8 sensor-head cable
- supplied stainless-steel contact
- rigid fixture aligned to the measurement axis

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	GT2-H32 / GT2-H32 recorded
Physical interface	GT2 compatible amplifier or communication unit
Companion check	optional M8 sensor-head cable
Functional proof	Provides absolute contact displacement measurement without tracking error
Application test	In-process dimensional inspection of machined parts

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Detection system	Quartz glass scale; CMOS image sensor projection; absolute type
Measuring range	32 mm
Resolution	0.5 um
Indicated accuracy	3 um p-p at 20 degC
Measuring force - downward	2.1 N at range center
Measuring force - side	1.8 N at range center
Measuring force - upward	1.5 N at range center
Sampling cycle	1 ms
Mechanical response	6 Hz at 20 degC
Operation indicator	2-color LED; red and green
Enclosure rating	IP67
Ambient temperature	-10 to +55 degC; no freezing
Relative humidity	35 to 85% RH; no condensation
Vibration resistance	10 to 55 Hz; 1.5 mm double amplitude; 2 h per X/Y/Z axis

FIELD NOTE

Mount GT2-H32 on a rigid fixture with the plunger aligned to the travel axis, select the cable and amplifier for the installed GT2 system, and verify zero, repeatable contact and full travel before production measurement.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	GT2-H32 / GT2-H32 recorded
Physical interface	GT2 compatible amplifier or communication unit
Companion check	optional M8 sensor-head cable
Functional proof	Provides absolute contact displacement measurement without tracking error
Application test	In-process dimensional inspection of machined parts

04 RETURN-TO-SERVICE RECORD

- ☐
- Confirm the fixture permits the full 32 mm travel without bottoming the plunger.
- ☐
- Re-establish the measurement datum after mechanical adjustment or sensor-head replacement.
- ☐
- Run a controlled master-part check and confirm the indicator and measurement response before release.
- ☐
- Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
GT2-H32	GT2 Series 32 mm digital contact sensor head	Open product page

SOURCE IDENTIFIERS

KEYENCE GT2-H32 Sensor Head Product Data

GT2-H32 online specification record

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