GT-H10L Keyence 10mm 0.3N Low-Force Digital Contact Sensor Datasheet

Brand: Keyence

SKU: 1045774401104

Category: Test & Calibration Instruments

Price: **$391.43**

E-mail: sales@equipspares.com

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Product Page:
https://www.equipspares.com/product/gt-h10l-keyence-10mm-0-3n-low-force-digital-contact-sensor

Product Description

Keyence GT-H10L 10 mm measuring range, 0.3 N downward measuring force, and 3 µm repeatability digital contact sensor head. The unit is constructed with a TYPE430 stainless steel housing and a TYPE304 stainless steel contact tip to ensure structural rigidity and chemical resistance. It utilizes a co-transformer absolute position detection method to prevent data loss during high-speed spindle movement. The internal mechanism incorporates linear ball bearings to minimize friction and extend mechanical service life. The sensor provides a mechanical response of 7 Hz and maintains a repeatability of 3 µm at stable ambient temperatures.

GT-H10L Specifications
Model: GT-H10L
Brand: Keyence
Type: Sensor head (Low-stress)
Measuring Range: 10 mm
Measuring Force (Downward): 0.3 N
Measuring Force (Side): 0.25 N
Measuring Force (Upward): 0.2 N
Mechanical Response: 7 Hz
Repeatability: 3 µm
Ambient Temperature: -10 to +55 °C

Relative Humidity: 35 to 85 % RH
Housing Material: TYPE430 Stainless steel
Indicator Material: Polyarylate
Contact Material: TYPE304 Stainless steel
Cable Material: PVC
Cable Length: 2 m
Weight: 115 g

GT-H10L Applications

Primary applications include integration into automated inspection systems for measuring delicate electronic components, thin-film thickness verification, and precision glass substrate flatness testing. Deployed within semiconductor assembly lines and medical device manufacturing cells where low contact pressure is required to prevent workpiece deformation.

Supplemental Images


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GT-H10L
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http://www.keyence.com/
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