



IEC 61032 Test Probe B IP2X Jointed Test Finger

Product Catalogue

Precision articulated finger probe for standards-based accessibility testing of household appliance and electrical equipment enclosures. Used to evaluate whether unintended finger access can reach live or other hazardous parts and to support electric-shock protection verification.



IEC 61032

IP2X

10 N

Catalogue content based on confirmed KINGPO product details and referenced probe documentation. Final scope subject to confirmation.

Standards

IEC 61032 / IEC 60529 / applicable IEC 60335-1

Test Object

Household appliances and electrical equipment enclosures

Test Purpose

Finger-accessibility and hazardous-part access verification

Test Setup

10 N via force gauge; external contact indication connection

Product Overview and Test Architecture

The IEC 61032 Test Probe B is a jointed test finger used for standards-based accessibility evaluation. Its articulated structure allows it to reach through appliance openings, slots and guards so laboratories can assess whether a person could reach live or otherwise hazardous parts.

Standard-oriented accessibility testing

Supports IEC 61032 probe use and IP2X-related enclosure accessibility evaluation. Applicable standard edition and clause should be confirmed before testing.

Two-joint articulated finger

The jointed finger can change direction after insertion, helping evaluate access conditions that cannot be represented by a rigid straight probe.

10 N force application

For the referenced 10 N application, the test force is applied and verified using a force gauge rather than relying only on subjective manual pressure.

External contact indication connection

The probe provides an electrical connection for integration with an external contact indication circuit. A built-in buzzer or lamp is not included.

IEC 61032 Test Probe B



Jointed test finger

Hazardous-part access

Force gauge application

Functional Test Flow

1 Confirm Standard

Edition, clause and probe type

2 Prepare Sample

Set appliance or enclosure condition

3 Apply Probe

Introduce probe to the opening

4 Articulate Finger

Evaluate possible finger movement

5 Apply 10 N

Use and verify force with gauge

6 Check Contact

Evaluate hazardous-part accessibility

Detailed Technical Specifications

The following parameters summarize the catalogue-level configuration of the IEC 61032 Test Probe B. Final documentation scope and force-gauge arrangement should be reviewed according to the applicable standard edition, test clause and laboratory procedure.

Standard and Test Scope

Parameter	Specification
Product type	Jointed test finger / Test Probe B
Primary standard reference	IEC 61032
Enclosure test reference	IEC 60529
Typical safety application	IEC 60335-1, where applicable
Main test purpose	Accessibility to hazardous parts
Probe structure	Two-joint articulated finger

Laboratory Setup and Configuration

Parameter	Specification
Force application / verification	Force gauge
Electrical connection	External contact indication circuit
Built-in indication unit	Not included
Typical users	Testing labs, certification organizations, appliance manufacturers
Documentation	Calibration or dimensional inspection documentation available according to confirmed requirements
Legacy / project references	IRAM 4220-1; SASO/IEC 60335-1; IEC 60950 / EN 60950 project references

Probe Construction

Parameter	Specification
Reference finger diameter	Ø12 mm
Reference articulated finger length	80 mm
Probe material	Stainless steel
Handle material	Polyamide
Surface finish	Chrome plating
Applied test force	10 N

Technical Note

For standards-based accessibility testing, correct probe geometry, articulated movement, applied test force and contact-indication arrangement are part of the overall test setup.

The probe should not be treated as a built-in fixed-force device. The referenced 10 N force is applied and verified using a force gauge. Where electrical contact detection is required, the probe connection is integrated with the laboratory's external indication circuit.

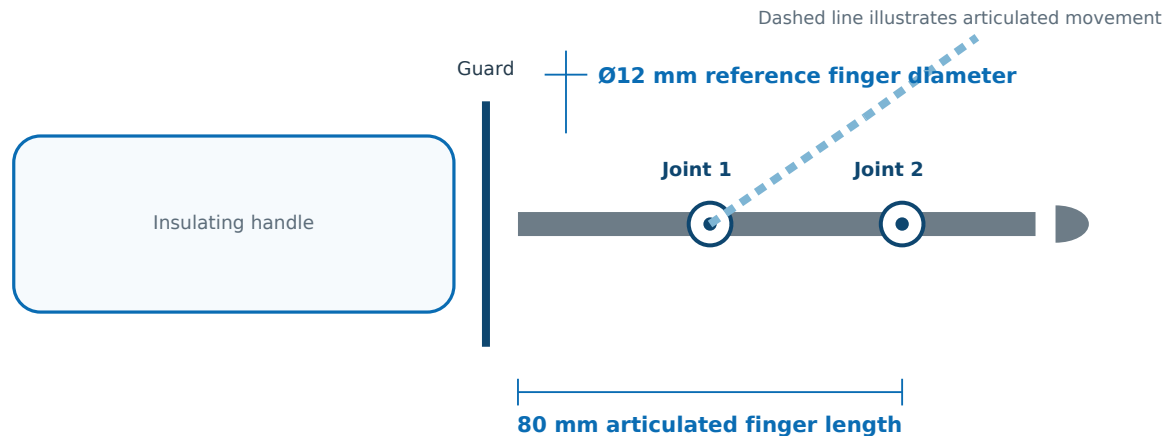
Before quotation: confirm the standard number, edition, test clause, sample type, force-gauge requirement and required documentation.

Jointed Finger Design and Test Method

The articulated finger geometry allows the probe to simulate possible finger movement through enclosure openings. The concept diagram below highlights the two-joint structure and reference geometry used during accessibility evaluation.

Articulated Test Finger Concept

Representative catalogue illustration for IEC 61032 Test Probe B geometry and movement.



Why the jointed design matters

A rigid straight probe cannot represent the same movement. The two articulated joints help evaluate whether a finger could change direction after entering an opening or passing an enclosure feature.

Force application

For the referenced 10 N application, the required test force is applied and verified using a force gauge. The probe itself should not be treated as a built-in fixed-force mechanism.

Contact indication

The probe connection can be integrated with an external contact indication circuit where electrical contact detection is required. A buzzer or lamp is not included.

1

Confirm clause

2

Prepare sample

3

Apply probe

4

Articulate finger

5

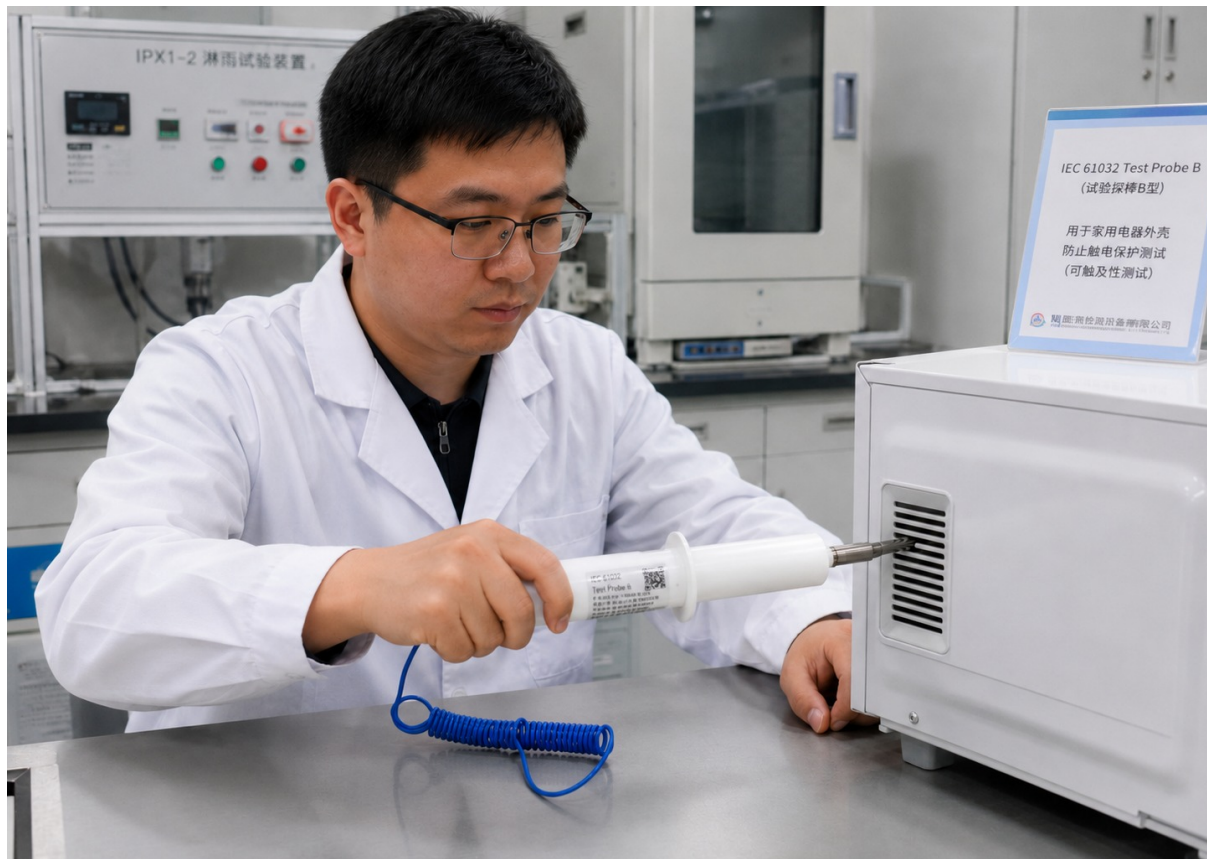
Verify 10 N

6

Evaluate contact

Applications, Compliance and Laboratory Use

The probe is particularly relevant to household appliance and electrical product safety work where an articulated finger-type access evaluation is specified. It helps laboratories simulate unintended finger access and review whether protective enclosure design limits contact with hazardous parts.



Typical Users

Household appliance manufacturers; internal product-safety laboratories; third-party testing and inspection organizations; certification and pre-compliance teams.

Typical Test Objects

Household appliance enclosures, ventilation openings, slots, protective guards, accessible gaps around covers and electrical equipment housings.

Compliance & Regulatory Assurance

Supports accessibility testing related to IEC 61032, IEC 60529 and applicable IEC 60335-1 requirements. Confirm edition, clause, force and contact indication method before testing.

Configuration Review Before Quotation

Provide the standard, edition, clause, sample type and photos of the evaluated opening. Confirm force-gauge and documentation requirements.

Why this test matters: the probe represents possible human finger access during product use or unintended contact and supports verification that hazardous live parts remain inaccessible through the enclosure design.

Product Views and Documentation

The product views below show the complete probe body, articulated metal finger, guard, handle and blue electrical connection cable. Documentation and contact-indication requirements should be confirmed before quotation or supply.



Front product view



Oblique side view



Slightly elevated view



Rear-side view and cable connection

Calibration & Documentation

Confirm the required document scope before supply.

01

Applicable standard

Standard number and edition

02

Document type

Calibration or dimensional inspection

03

Inspection scope

Required dimensional items

04

Acceptance criteria

Laboratory or project requirements



Electrical Contact Indication

The probe can be integrated with an external contact indication circuit. Built-in buzzer / lamp is not included.

Documentation Note: calibration or dimensional inspection documentation

Technical Inquiry and Expert Support

KINGPO supplies the IEC 61032 Test Probe B for standards-based finger-accessibility and hazardous-part access evaluation. Our engineering team can review the applicable standard, probe application, force requirement and documentation scope before quotation.

Please share the following information so KINGPO can confirm whether the probe and test arrangement match your IEC 61032 / IEC 60529 project before quotation.

Information Needed	Example
Applicable standard	IEC 61032 / IEC 60529 / applicable IEC 60335 requirement
Standard edition and clause	Applicable edition and specific accessibility test clause
Test object	Household appliance, enclosure, protective guard or equipment housing
Force gauge requirement	Probe only / force gauge or force application arrangement required
Contact indication setup	Existing external indication circuit or laboratory contact detection method
Documentation needs	Calibration document, dimensional inspection record or project-specific technical documentation

KINGPO can review the standard, probe application, force requirement and documentation scope before quotation to reduce selection and setup errors.



Product Page



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