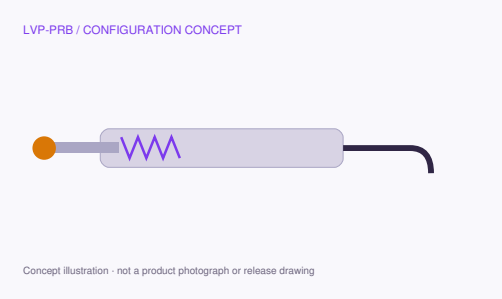
LVP-PRB / Engineering selection brief

PRELIMINARY REQUEST WORKSHEET - not a released model datasheet or dimensional drawing

Choose the contact force before the displayed resolution.

A gauging probe becomes a measurement system only after its tip, fixture, electronics and operating cycle are defined. The useful comparison is repeatability under the intended contact and return conditions.



Owned configuration concept only. No scale, dimensional tolerance or release status is implied.

Spring return or pneumatic actuation?

State measurement orientation, approach sequence, contact force through the working travel and retraction clearance. For pneumatic requests, provide pressure regulation and the required air-quality specification.

Do not copy an air-pressure setting from a different probe or actuator design.

Ball, flat, ruby or roller contact?

Describe the surface, material, contact geometry, tip thread and whether the part moves under the tip. Include coolant, chips and cleaning exposure.

A tip selected only by thread size can still impose the wrong contact force or side load.

LVDT, half-bridge or digital network?

Identify the existing input card and full probe model. Confirm carrier, sensitivity and winding topology, or request the digital protocol/interface.

A shared dia.8 mm body does not make analogue, half-bridge and Orbit probes electrically interchangeable.

Read installation and application conditions on the family page

LVP-PRB / Requested configurations & review

REQUEST REFERENCES ONLY - final dimensions, interface and acceptance follow the agreed drawing and quotation

Requested travel / body / interface envelope

Travel: +/-0.5 to +/-25 mm

Body / installation: dia.8 h6 / dia.9.525 mm

Interface: AC / half-bridge / DC / digital variants

LVP-PRB-REQ-0P5 - +/-0.5 mm (1 mm total / 0.039 in)
8 mm h6 | Spring-loaded gauging probe | Passive AC-LVDT + matched conditioner

LVP-PRB-REQ-1 - +/-1 mm (2 mm total / 0.079 in)
8 mm h6 | Spring-loaded gauging probe | Passive AC-LVDT + matched conditioner

LVP-PRB-REQ-2P5 - +/-2.5 mm (5 mm total / 0.197 in)
8 mm h6 | Spring-loaded gauging probe | Passive AC-LVDT + matched conditioner

LVP-PRB-REQ-5 - +/-5 mm (10 mm total / 0.394 in)
8 mm h6 | Spring-loaded gauging probe | Passive AC-LVDT + matched conditioner

LVP-PRB-REQ-10 - +/-10 mm (20 mm total / 0.787 in)
8 mm h6 | Spring-loaded gauging probe | Passive AC-LVDT + matched conditioner

LVP-PRB-REQ-25 - +/-25 mm (50 mm total / 1.969 in)
8 mm h6 | Spring-loaded gauging probe | Passive AC-LVDT + matched conditioner

Long-travel probe request; overall length, force and guidance to review

Proposed acceptance sequence - agree method and limits before the order

1. Fix the contact conditions
Record tip type, contact force, orientation, air settings and the actual master surface. Define the return/approach sequence before collecting readings.

2. Separate noise from mechanical return
Record stationary noise and repeated lift/return readings using the selected electronics and filtering. State repeats and the repeatability calculation used.

3. Verify the assembled station
Repeat after clamping and with adjacent channels operating. Probe-level observations do not establish the capability of the entire production gauge.

General technical background / not LVP product evidence

Solartron: repeatability and probe mechanics

Background on contact force, mechanical effects and electrical noise; original manufacturer test methods are not LVP test results.

Solartron: contact measurement on moving material

Background on side loading and contact geometry; no LVP tip-life or accuracy rating is inferred.

Beckhoff: LVDT and half-bridge connection types

Examples of distinct input topologies, not a universal LVP connector assignment.

Download date/revision must not replace a controlled model drawing. Requested extremes are not automatically combinable. Price, quantity/MOQ, lead time, delivery basis and warranty follow the quotation.

LVP-PRB / Fillable engineering RFQ

Complete in a PDF reader, save a copy, verify the saved entries and email it to inquiry@lvdtsensor.com.

All fields are blank. Entries remain in your local PDF until you choose to send it. State units and distinguish bipolar +/- range from total travel. No files are automatically uploaded.

Company / contact

Reply email

Measurement travel and separate approach / overtravel

Spring or pneumatic operation and orientation

Allowed contact force over working travel

Contact-tip geometry, material and thread

Part surface, movement and coolant exposure

Clamping diameter, zone and permitted force

Controller, topology, carrier or digital protocol

Air pressure, regulation and quality requirement

Repeatability method / gauge R&R scope

Quantity, destination and required date

Drawing revision, STEP/IGES, pinout, calibration and qualification scope

This form is an engineering request, not a purchase order, compatibility approval, specification release or test certificate. Attach the original nameplate and drawing to your email where available.