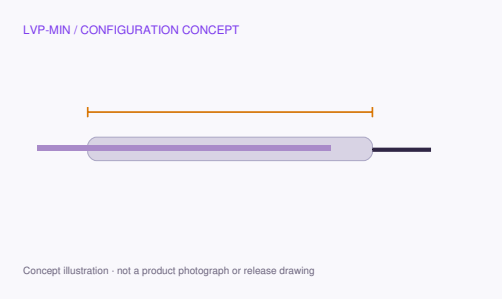
LVP-MIN / Engineering selection brief

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

Fit the core motion inside the complete measurement envelope.

A miniature LVDT must fit as a coil, moving core, attachment and cable assembly. Start with the available space and permissible influence on the specimen or mechanism; nominal diameter alone is insufficient.



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

Which dimension is fixed by the fixture?

Provide maximum body length, diameter tolerance, core length, datum-to-null distance and connector or cable exit clearance. Attach the existing drawing rather than relying on dimension letters alone.

dia.4.7625 mm and dia.9.525 mm are separate request envelopes; their maximum travels and core masses are not automatically combinable.

Who guides the moving core?

Define radial clearance, alignment over travel, attachment thread, extension rod and permissible moving mass. Include the motion trajectory and any lateral deflection.

A free core needs external guidance; non-contact induction does not prevent contact caused by a misaligned fixture.

Where will the electronics and cable sit?

Provide the controller carrier voltage/frequency, sensitivity, topology and cable length. If conditioned output is required, include the remote or in-line module envelope.

A small coil-body diameter does not establish the size of a complete DC-output measurement chain.

Read installation and application conditions on the family page

LVP-MIN / 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 +/-50 mm

Body / installation: dia.4.7625 / dia.9.525 mm

Interface: 4 / 5 / 6-wire AC / remote conditioning

LVP-MIN-REQ-0P5 - +/-0.5 mm (1 mm total / 0.039 in)
4.7625 mm (3/16 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-MIN-REQ-1 - +/-1 mm (2 mm total / 0.079 in)
4.7625 mm (3/16 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-MIN-REQ-2P5 - +/-2.5 mm (5 mm total / 0.197 in)
4.7625 mm (3/16 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-MIN-REQ-5 - +/-5 mm (10 mm total / 0.394 in)
9.525 mm (3/8 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-MIN-REQ-10 - +/-10 mm (20 mm total / 0.787 in)
9.525 mm (3/8 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-MIN-REQ-25 - +/-25 mm (50 mm total / 1.969 in)
9.525 mm (3/8 in) | Free unguided core | Passive AC-LVDT + matched conditioner

LVP-MIN-REQ-50 - +/-50 mm (100 mm total / 3.937 in)
9.525 mm (3/8 in) | Free unguided core | Passive AC-LVDT + matched conditioner

Proposed acceptance sequence - agree method and limits before the order

1. Verify the assembled envelope

Check the agreed datum, attachment, core clearance and cable path through the required travel before energizing the measurement chain.

2. Compare at the selected carrier

Record excitation voltage/frequency, cable, conditioner and filtering with the reference displacement. Keep the calibration conditions attached to the result.

3. Repeat representative motion

Check zero return, bidirectional residuals and the defined dynamic or chamber condition. A room-temperature bench result does not establish chamber-pressure performance.

General technical background / not LVP product evidence

TE: AC and DC LVDT operating principles

Background on transformer sensing and integral signal conditioning; not LVP performance evidence.

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-MIN / 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

Required bipolar range or total travel (mm)

Maximum body diameter and length

Core length, datum-to-null and moving-mass limit

Core attachment thread and extension geometry

Alignment, radial clearance and side motion

Carrier amplitude / frequency and topology

Controller, sensitivity and required output

Cable route, length and feedthrough

Pressure, medium, temperature and dynamics

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.