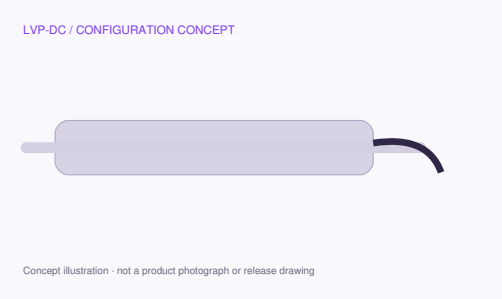
LVP-DC / Engineering selection brief

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

Start with the PLC input, then define the travel.

A DC-LVDT request needs an electrical boundary as well as a displacement range. Identify the receiver, supply and signal reference before choosing a housing or ordering a replacement.



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

2-wire loop or powered current output?

Identify whether the PLC channel supplies loop power or expects an active transmitter. Request the supply range, minimum operating voltage, receiving resistance and cable-drop allowance together.

A 4-20 mA label alone does not establish loop compatibility. Do not connect two powered outputs together.

Unipolar voltage or bipolar voltage?

Specify the output at both physical travel endpoints, the null position, receiver impedance and shared or separate returns. State whether a negative rail is available.

A +/-10 V signal request does not imply that every transmitter can run from one +24 V rail.

RS485 position into which controller?

Request the protocol and register map, signed position units, baud rate, addressing, scaling and grounding. Define update time with the required filtering.

RS485 is a physical interface; it does not establish a register map or direct Orbit compatibility.

Read installation and application conditions on the family page

LVP-DC / Requested configurations & review

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

Requested travel / body / interface envelope

Travel: +/-2.5 to +/-500 mm

Body / installation: dia.19 / 19.05 / 20 mm

Interface: 4-20 mA / 0-10 V / +/-10 V / RS485

LVP-DC-REQ-2P5 - +/-2.5 mm (5 mm total / 0.197 in)
19.05 mm (3/4 in) | Captive guided rod | 0-10 V

LVP-DC-REQ-10 - +/-10 mm (20 mm total / 0.787 in)
19.05 mm (3/4 in) | Captive guided rod | 0-10 V

LVP-DC-REQ-25 - +/-25 mm (50 mm total / 1.969 in)
19.05 mm (3/4 in) | Captive guided rod | 0-10 V

LVP-DC-REQ-50 - +/-50 mm (100 mm total / 3.937 in)
19.05 mm (3/4 in) | Captive guided rod | 0-10 V

LVP-DC-REQ-100 - +/-100 mm (200 mm total / 7.874 in)
19.05 mm (3/4 in) | Captive guided rod | 0-10 V

LVP-DC-REQ-250 - +/-250 mm (500 mm total / 19.685 in)
19.05 mm (3/4 in) | Captive guided rod | 0-10 V

LVP-DC-REQ-500 - +/-500 mm (1000 mm total / 39.370 in)
19.05 mm (3/4 in) | Captive guided rod | 0-10 V

Proposed acceptance sequence - agree method and limits before the order

1. Check the electrical boundary

Confirm supply at the sensor under the intended load, then record the zero and span outputs using the agreed receiver and cable.

2. Traverse both directions

Compare indicated displacement with a suitable reference across the agreed working range. Record direction, residuals, return-to-null and the method used for linearity.

3. Repeat installed conditions

Repeat checks after final clamping, warm-up and the defined temperature condition. Agree acceptance limits before the order; no numerical pass threshold is supplied by this guide.

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.

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-DC / 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)

Output at first / second physical endpoint

Supply available at the sensor (V DC)

PLC input type and receiving load

Body / core envelope and mounting datum

Core or rod attachment thread

Cable length, connector and screen

Temperature, vibration and environment

Original model and drawing revision

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.