

LVDT Displacement Sensors

SDVH gauging probes · SDVG separate-core LVDT · SLT pen-type LVDT



SEGMENT sensor LVDT displacement sensors deliver contactless linear measurement from ± 0.5 mm to ± 500 mm with ± 0.1 % FS linearity and ± 0.01 % FS repeatability. Choose spring-loaded gauging probes for dimensional inspection, separate-core LVDTs for hydraulic spools and presses, or pen-type DC-LVDTs with built-in conditioning and 4-20 mA / 0-10 V / RS485 output.

± 0.5 to ± 500 mm

± 0.1 % FS linearity

± 0.01 % FS repeatability

AC / DC / RS485

-40 °C to $+125$ °C

IP67 stainless

TECHNICAL SPECIFICATIONS

Parameter	SDVH gauging probe	SDVG separate-core	SLT pen-type
Stroke (full range)	± 0.5 / ± 1 / ± 2 / ± 5 mm	± 2 to ± 100 mm	± 10 to ± 500 mm
Linearity	± 0.1 % FS	± 0.25 % FS	± 0.25 % FS (± 0.1 % option)
Resolution	Infinite (analog)	Infinite (analog)	Analog / 0.001 mm RS485
Repeatability	± 0.01 % FS	± 0.01 % FS	± 0.01 % FS
Output	AC differential / 0-10 V / 4-20 mA	AC differential / 0-10 V / 4-20 mA	4-20 mA / 0-10 V / ± 10 V / RS485 Modbus
Excitation / supply	1-10 kHz 1-5 Vrms or 10-30 V DC	1-10 kHz 1-5 Vrms or 10-30 V DC	10-30 V DC (built-in DC-DC)
Operating temperature	-40 °C to $+125$ °C	-40 °C to $+125$ °C	-40 °C to $+85$ °C
Protection rating	IP67	IP67	IP67
Housing	303 / 316L stainless steel	303 / 316L stainless steel	303 SS / aluminium alloy
Electrical connection	Integral cable / M12 $\times$ 1	Integral cable / M12 $\times$ 1	M12 $\times$ 1 / custom cable
Certifications	CE, RoHS	CE, RoHS	CE, RoHS

TYPICAL APPLICATIONS

- Hydraulic cylinder position
 - Press stroke monitoring
 - Material testing machines
 - Engine test benches
- Injection moulding
 - Dimensional inspection
 - Turbine & aerospace
 - Robotics & automation

OEM OPTIONS

Custom stroke · output AC / DC / RS485 · connector & cable length · high-temperature version to $+150$ °C · private label · CE declaration and calibration certificate

SELECTION FAQ

AC-LVDT or DC-LVDT?
AC types (SDVH/SDVG) give the widest temperature range and smallest body; DC types (SLT) include the signal conditioner and connect directly to a PLC.

What is the difference between gauging probe and separate core?
Gauging probes have a spring-loaded tip for touch measurement; separate-core types have a free core for embedded use inside valves and cylinders.

Request a quote or samples — we reply within 24 hours

Email

info@segmentensor.com

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www.segmentensor.com/contact.html

Product page

www.segmentensor.com/products/lvdt-sensor.html

Ordering

MOQ 10 pcs · samples 1-5 pcs in 5-7 days · production 3-5 weeks



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