

SX12V series

LVDT for servo-actuator

Dimensions

Sensor

Stroke	B (mm)	D (mm)	P (mm)	Q (mm)	Q (HP option) (mm)
±12.5 mm	96	50	76.5	69.5	68
±25 mm	132	86	109.3	63.7	62.2
±37.5 mm	168	122	146.5	50.5	49
±50 mm	204	158	179.7	42.3	40.8
±75 mm	276	230	251	50	48.5
±100 mm	348	302	326	30	30
±125 mm	396	350	376	30	30
±150 mm	457	411	440	30	30

Core rod

Stroke	G (mm)	H (mm)	J (mm)	I (mm)
±12.5 mm	140.6	37.8	99.8	10.5
±25 mm	158	34	121	20
±37.5 mm	188.5	54.4	131	20
±50 mm	207	54.4	149.6	20
±75 mm	266	56	207	20
±100 mm	307	69	235	20
±125 mm	372	80	289	7
±150 mm	423.5	80	340.5	7

Environmental characteristics

Operating temperature	-40°C to +100°C (125°C during 500 h) and 150°C (with HP option)
Static pressure	150 bar (standard) and 350 bar (HP option)
Vibrations	12g peak to peak up to 2kHz
Shocks	1000g/5ms
Protection	IP 65

General specification at + 25°C

Stroke	±12.5mm to ±150mm
Primary sine excitation	2.2Vrms nominal (6V peak to peak)
Excitation frequency	3500 Hz nominal (400Hz to 15kHz)
Consumption	≤10mW
Non linearity	< ±0.3% FSO
Resolution and hysteresis	Non measurable
Zero null voltage	≤0.5% of FS
Sensitivity thermal drift	≤ 300ppm/°C
Dielectric strength	500VDC/ 1 min
Insulation resistance	≥ 1 Mohm

SX12V series

LVDT for servo-actuator

Electrical characteristics at +23°C

Stroke (mm)	±12.5	±25	±37.5	±50	±75	±100	±125	±150
Sensitivity (mV/V/mm)	34	17	11.30	8.50	5.70	4.25	3.40	2.80
Primary impedance (Ω)	1280	760	1450	1340	1470	800	495	570
Secondary impedance (Ω)	311	315	330	275	360	300	160	275
Phase (primary/ secondary) (°)	-6.0	+3.0	0.0	+2.0	+3.0	+3.0	+6.0	+21.0

Selection guide

Standard version

Stroke	Product reference Connector output	Product reference 1m cable output	Product reference 5m cable output	Product reference 10m cable output
±12.5 mm	690 110 270	690 100 043	Consult us	Consult us
±25 mm	690 110 271	690 100 044	690 100 567	690 100 645
±37.5 mm	690 110 272	690 100 045	Consult us	690 100 284
±50 mm	690 110 273	690 100 046	690 100 384	690 100 714
±75 mm	690 110 274	690 100 047	690 100 285	690 100 684
±100 mm	690 110 268	690 100 048	Consult us	Consult us
±125 mm	690 110 303	690 100 086	690 100 572	Consult us
±150 mm	690 110 300	690 100 049	Consult us	Consult us

High pressure version

Stroke	Product reference Connector output	Product reference 1m cable output	Product reference 5m cable output	Product reference 10m cable output
±12.5 mm	690 100 050	690 100 058	Consult us	Consult us
±25 mm	690 100 051	690 100 059	Consult us	Consult us
±37.5 mm	690 100 052	690 100 060	Consult us	690 100 648
±50 mm	690 100 053	690 100 061	690 100 349	Consult us
±75 mm	690 100 054	690 100 062	690 100 616	Consult us
±100 mm	690 100 055	690 100 063	690 100 652	690 100 730
±125 mm	690 100 056	690 100 064	Consult us	Consult us
±150 mm	690 100 057	690 100 065	Consult us	Consult us

Options

Designation

Special core rod thread length : 7mm
SX12VxxHP Jaeger female plug
SX12Vxx Jaeger female plug

Product reference

Consult us
490 513 044
490 513 040