

SUB-SEA DISPLACEMENT SENSORS

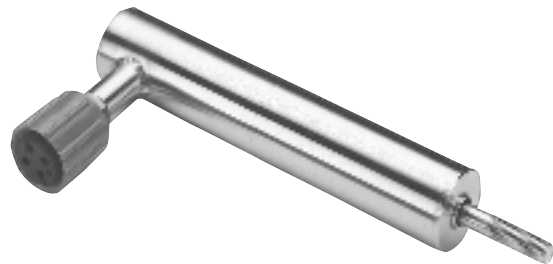
Model SSA & SSD

Free Unguided LVDT

ALL-WELDED 316 SS

UP TO 7500 FT DEPTH

+/-0.5" TO +/- 4" RANGE



Both AC & DC type of LVDTs are offered in ranges from +/- 0.5" up to +/- 4.0" stroke length. The oceanographic type of electrical plug allows the connection to be made underwater. These Sub-Sea Displacement Sensors are pressure rated to operate down to a depth of 7500 feet in sea water. The body of the sensor is made from 316 SS with all-welded construction. Sensotec offers In-Line Amplifiers and Digital Indicators for both LVDT models that provide +/-5, 10 VDC or 4-20 mA and RS232 outputs with zero and span adjustments.

PERFORMANCE

	Model SSA Order Code AY910	Model SSD Order Code AY911
Stroke Ranges	+/- 0.5" to +/- 4.0"	+/- 0.5" to +/- 4.0"
Non-Linearity	+/- 0.5% FS	+/- 0.5% FS
Output	See Dimensions Table	+/- 5.0 Vdc
Resolution	Infinite	Infinite
Noise & Ripple	N/A	30 mV Peak to Peak

ENVIRONMENTAL

Temperature.....	-40°F to +122°F	-40°F to +122°F
Temperature effect on		Note: * +15° to +140°F on 4-20mA output
Zero (max).....	+/- 0.005%FS/degree F	+/- 0.005% FS/degree F
Span (max)	+/- 0.005%FS/degree F	+/- 0.015% FS/degree F
Operating Pressure	3500 PSI	3500 PSI

ELECTRICAL

Element Type	AC - AC LVDT	DC - DC LVDT
Input Supply	0.5 to 7 V rms, 5 kHz	Single floating supply: +20 to 40 Vdc, 25 mA
		Dual supply: +/- 10 to 20 Vdc, 25 mA
Electrical Termination.....	Includes a submersible, neoprene and nickel-aluminum bronze connector molded to 6 ft of neoprene jacketed 10.2 mm diameter cable. The electrical connector may be mated under water up to 500 psi or 1100 ft. Longer cable lengths are available up to 3250 ft. Call Sensotec for information.	

MECHANICAL

Case and Armature Material	316 Stainless Steel with all-welded construction
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1-800-848-6564

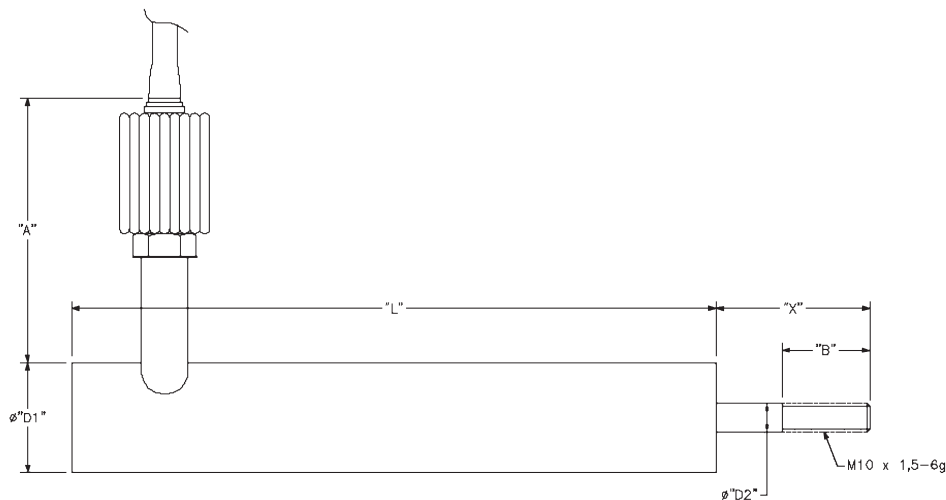
Honeywell
SENSOTEC

www.honeywell.com/sensing

Dimensions

Model SSD Order Code AY911

Order Code	Available Stroke Range	PRICE	Output Sensitivity	"L"	"X"	"D1"	"D2"	"A"	"B"
AY911HP	+/- 0.5"	\$1152	+/- 5 VDC	8.8"	2.1"	1.5"	0.39"	3.6"	1.2"
AY911HQ	+/- 1.0"	\$1296	+/- 5 VDC	9.9"	2.6"	1.5"	0.39"	3.6"	1.2"
AY911HR	+/- 2.0"	\$1424	+/- 5 VDC	13.6"	3.6"	1.5"	0.39"	3.6"	1.2"
AY911HS	+/- 3.0"	\$1568	+/- 5 VDC	17.1"	4.6"	1.5"	0.39"	3.6"	1.2"
AY911HT	+/- 4.0"	\$1705	+/- 5 VDC	21.1"	5.6"	1.5"	0.39"	3.6"	1.2"



Model SSA Order Code AY910

Order Code	Available Stroke Range	PRICE	Output Sensitivity	"L"	"X"	"D1"	"D2"	"A"	"B"
AY910HP	+/- 0.5"	\$1305		8.8"	2.1"	1.5"	0.39"	3.6"	1.2"
AY910HQ	+/- 1.0"	\$1440	Contact Factory	9.9"	2.6"	1.5"	0.39"	3.6"	1.2"
AT910HR	+/- 2.0"	\$1576	0.3 to 3 V rms	13.6"	3.6"	1.5"	0.39"	3.6"	1.2"
AY910HS	+/- 3.0"	\$1720	range dependent	17.1"	4.6"	1.5"	0.39"	3.6"	1.2"
AY910HT	+/- 4.0"	\$1855		21.1"	5.6"	1.5"	0.39"	3.6"	1.2"

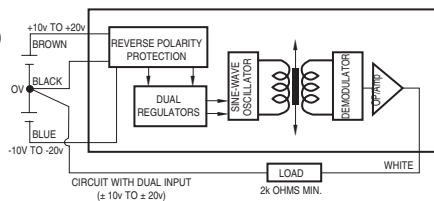
HOW TO ORDER:

1. Select the stroke range & order code
2. Select the cable length Includes mating electrical connector and 6 ft. cable. Additional cable at \$ 3.75/ft
3. Specify the depth to be used
4. Select the Sensotec in-line amplifier or digital indicator reference page IN-2,8-9.

DC/DC DUAL POWER SUPPLY

Reverse polarity protected with voltage regulator.

Brown - (+)Supply (+10 to +20 VDC)
 Blue - (-)Supply (-10 to -20 VDC)
 Black - (-)Output common/
 Supply Return
 White - (+)Output +/- 5 VDC (Min.
 2K ohm load across
 Black and White)

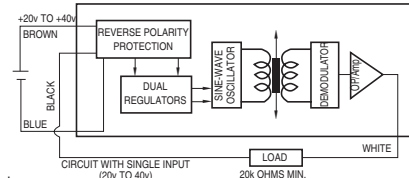


- Cable shield is not connected to transducer.

DC/DC SINGLE POWER SUPPLY

Reverse polarity protected with voltage regulator.

Brown - (+)Supply (+20 to +40 VDC)
 Blue - Supply return
 White - (+) Output +/- 5 VDC (Min.
 20K ohm load across
 Black and White)
 Black - (-)Output



- Cable shield is not connected to transducer.
- Either black or blue must float. If both are grounded or connected together, the unit will be destroyed.