# DR SERIES LVDT DISPLACEMENT TRANSDUC



- DC INPUT DC OUTPUT
- ROBUST CONSTRUCTION
- WEATHERPROOF AND SUBMERSIBLE VERSIONS
- SPRING LOADED OR GUIDED CORES
- STAINLESS STEEL BODY
- CONNECTOR, CABLE OR CONDUIT OUTLET

The DR series of LVDTs are designed for heavy industrial environments where a quick and easy to install displacement transducer is required.

The DR LVDT consists of a stainless steel body enclosing the transducer windings and signal conditioning.

The voltage input and output is via a connector, cable or conduit depending on the application and environment.

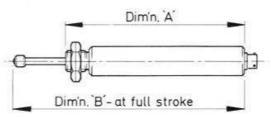
If moisture is a problem then a connector or cable version only gives limited protection whilst the conduit version enables the transducer to be fully submersed.

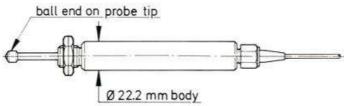
The SR series transducer can be supplied in a spring loaded format with either end exit or side exit or supplied with rod end (universal) bearings.

If temperatures are likely to exceed 90°C or zero and gain controls are required then a Sensonics AC input AC output transducer should be used.

# VERSION 1 (DRXXX/1)

Spring loaded, captive core and extension rod. Ball end on extension rod. End exit with 4 pin connector. Weatherproof. (IP55).



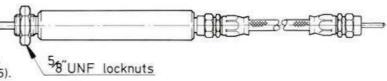


## VERSION 2 (DRXXX/2)

Spring loaded, captive core and extension. Ball end on extension rod. End exit via 4 core PTFE cable 2m in length. Other lengths optional. Weatherproof. (IP55).

## VERSION 3 (DRXXX/3)

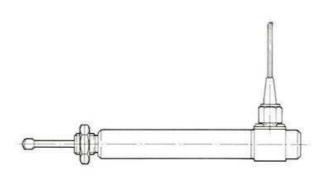
Spring loaded. Captive core and extension rod. Ball end on extension rod. End exit via 4 core PTFE cable in stainless steel braided flexible conduit, ending in 1/4BSP re-usable coupling, 2m in length, other lengths optional. Weatherproof (IP55).



R50 DR 100	OR 150
50 100	150
255 341	412
356 511	659
331	311

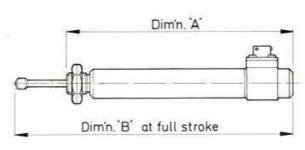
#### **VERSION 4 (DRXXX/4)**

Spring loaded, captive core and extension rod. Ball end on extension rod. Side exit with 4 pin connector. Weatherproof (IP55)



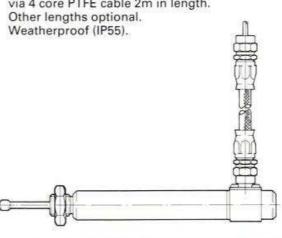
## **VERSION 6 (DRXXX/6)**

Spring loaded, captive core and extension rod. Ball end on extension rod. Side exit via 4 core PTFE cable in stainless steel flexible conduit, ending in 1/4 BSP re-usable coupling, 2m in length. Other lengths optional. Weatherproof or submersible versions available.

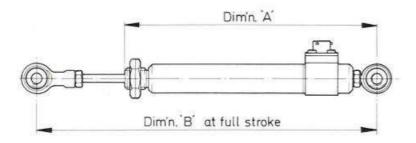


#### VERSION 5 (DRXXX/5)

Spring loaded, captive core and extension rod. Ball end on extension rod. Side exit via 4 core PTFE cable 2m in length. Other lengths optional.



DR 25	DR 50	DR100	DR 150
25	50	100	150
215	294	372	444
283	388	542	690
	25 215	25 50 215 294	25 50 100 215 294 372

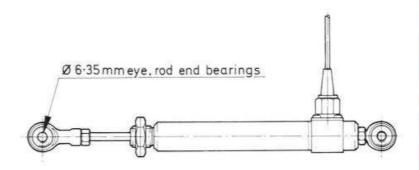


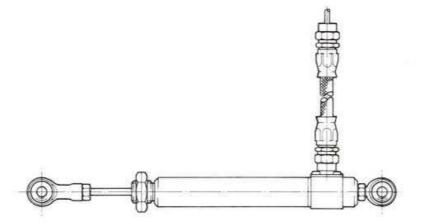
## VERSION 7 (DRXXX/7)

Captive core and extension rod. Rod end bearings on body and extension rod. Side exit with 4 pin connector. Weatherproof (IP55).

# **VERSION 8 (DRXXX/8)**

Captive core and extension rod. Rod end bearings on body and extension rod. Side exit via 4 core PTFE cable, 2m in length, other lengths optional. Weatherproof. (IP55).





# VERSION 9 (DRXXX/9)

Captive core and extension rod. Rod end bearings on body and extension rod. Side exit via 4 core PTFE cable in stainless steel braided flexible conduit, ending in 1/4 BSP re-usable coupling, 2m in length, other lengths optional. Weatherproof or submersible versions available.

100000000000000000000000000000000000000	DI 30	00 100	DR 150
25	50	100	150
234	313	391	463
302	407	561	709
	234	234 313	234 313 391

#### SPECIFICATION

10 - 24v dc. stabilised Input ..... Operating temperature range ...... -20°C to +90°C Survival temperature range ..... -55°C to +95°C 0 V DC Null voltage ..... Less than 25 mV rms Ripple ..... ± 0.5% full range (0.3% by selection) Linearity ..... Stability ...... 0.125% full scale Temperature Coefficient of/ Scale factor ..... 0.08%/°C 200 g for 20 milliseconds Shock survival ..... 10 g up to 2 kHz Vibration tolerance ..... Housing material ..... Non magnetic stainless steel (EN58) Frequency response ..... 200 Hz Output load ..... 50K ohms As below ± 20% Output voltage .....

#### ORDERING INFORMATION

LVDT Type Displacement range Version number Individual specification number allocated by the factory.

TRANSDUCER TYPE:-	DR25	DR50	DR100	DR150
TOTAL DISPLACEMENT RANGE (mm)	25	50	100	150
FULL RANGE OUTPUT (VOLTS)	2.8	3.1	3.0	2.9
WEIGHT EXC. CABLE (GRMS)	370	440	620	720

We reserve the right to alter the specification without notification.



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