

TD SERIES LVDT DISPLACEMENT TRANSDUCER



- DESIGNED FOR SEVERE ENVIRONMENTS
- SPRING LOADED DESIGN
- AC INPUT - AC OUTPUT
- CONNECTOR CABLE OR CONDUIT OUTLETS
- STAINLESS STEEL BODY
- -20 TO + 150°C (220°C VERSION AVAILABLE)

The TD series LVDTs are designed to severe environments where only a very robust displacement transducer will survive.

The TD series LVDT has a stainless steel body and a heavy duty stainless steel spring loaded core.

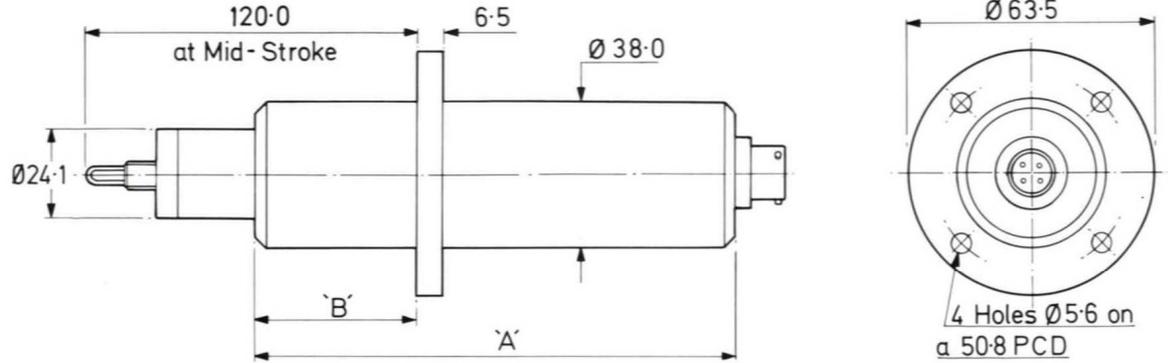
The transducer input and output connections are via either a connector, cable or conduit.

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

If the TD is to be submersed please indicate the depth and fluid the LVDT is to be used in so that tests (with the appropriate safety factors) can be carried out on the unit prior to despatch.

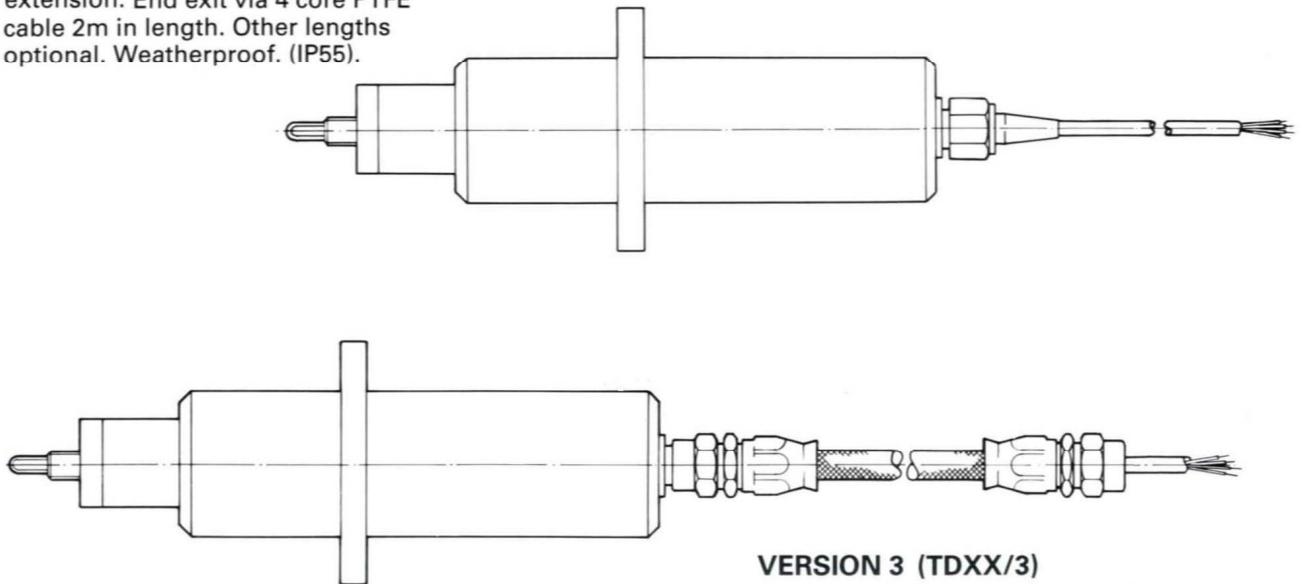
VERSION 1 (TDXX/1)

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



VERSION 2 (TDXX/2)

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



VERSION 3 (TDXX/3)

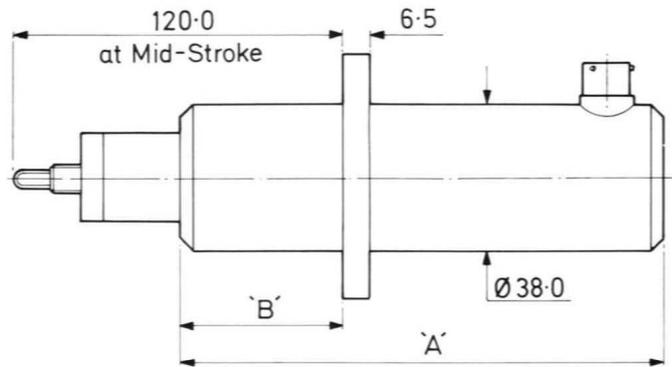
Spring loaded. Captive core and extension rod. End exit via 4 core PTFE cable in stainless steel braided flexible conduit, ending in 1/4BSP re-usable coupling, 2m in length, other lengths optional. Weatherproof (IP55). or submersible version.

Type No: TD-XX	-10	-25	-50	-75
Stroke mm	10	25	50	75
Dimension A	123.8	197	235	252
Dimension B	90.5	79.4	63.5	54

RIES

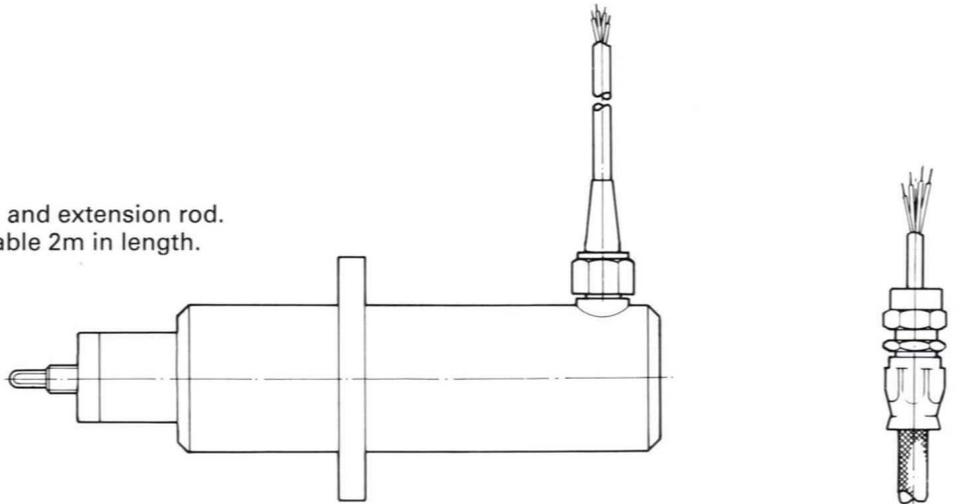
VERSION 4 (TDXX/4)

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



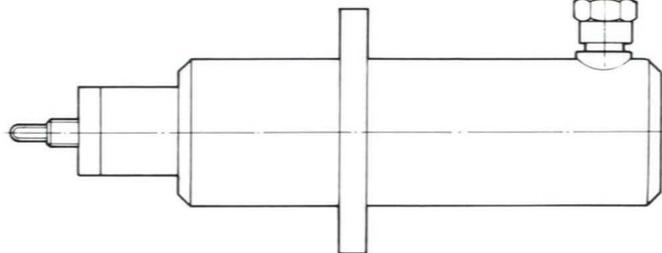
VERSION 5 (TDXX/5)

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



VERSION 6 (TDXX/6)

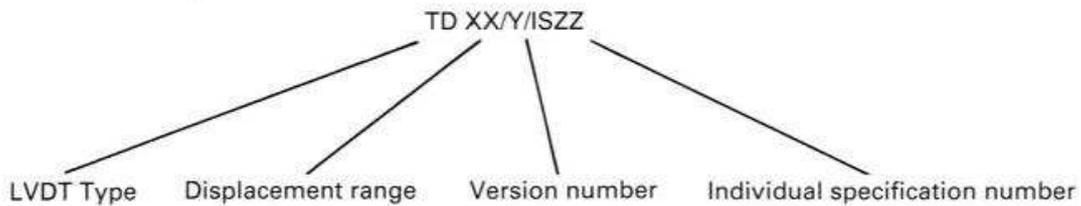
Spring loaded, captive core and extension rod.
Side exit via 4 core PTFE cable in stainless steel flexible conduit, ending in 1/4 BSP re-usable coupling, 2m in length. Other lengths optional.
Weatherproof or submersible versions available.



SPECIFICATION

Input voltage	From less than 1V to 10V RMS
Input frequency	50Hz to 5KHz
Maximum recommended primary current	20mA
Working temperature range	-40°C to + 150°C (220° integral cable)
Survival temperature range	-50°C to + 150°C (220°C integral cable)
Linearity	Better than 0.5% of reading
Body material	EN 58 (non-magnetic stainless steel)
Core material	EN 56 (Magnetic stainless steel)
Calibration I/P signal	5V RMS @ 3KHz
Spring rate	0.53 to 1.75 N/mm

ORDERING INFORMATION



TRANSDUCER TYPE:-	TD-XX	-10	-25	-50	-75
TOTAL DISPLACEMENT RANGE (mm)		10	25	50	75
FULL RANGE OUTPUT (mv/v at 3KHz)		1110	710	740	780
PRIMARY RESISTANCE (Ω)		70	70	70	130
SECONDARY RESISTANCE (Ω)		500	110	150	230
WEIGHT EXC. CABLE (GRMS)		1000	1250	1477	1810

We reserve the right to alter the specification without notification.

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