

Miniature Series LVDT

# DISPLACEMENT TRANSDUCER

AML/M  
Series



- Ranges  $\pm 0.25\text{mm}$  to  $\pm 50\text{mm}$
- Stainless Steel Construction
- Small Physical Size
- Simple Installation
- Versatile Packaging, giving many Standard Mounting Options
- Ideally Suited for OEM Applications.
- 3 YEAR WARRANTY

#### Options Available

Longer cable lengths available on request.

Higher temperature versions (consult factory).

Custom design versions available (consult factory)

Miniature In-Line Signal Conditioner to provide 0-5Vdc, 0-10Vdc or 4-20mA output signal

#### DESCRIPTION

The AML/M series of Miniature LVDT Displacement Transducers are AC powered devices widely used in OEM and general purpose applications such as material testing machines, automotive/aerospace test rigs and actuators, etc. Their small physical size also makes them ideally suited for use in load cells, pressure transducers, weighing systems and in general closed loop control.

The AML/M is supplied in a variety of packaging formats, enabling engineers to select quickly and precisely, the product required for a particular application.

The AML/M is supported with a versatile range of instrumentation to enable engineers to implement the sensor with the minimum of fuss within a system. Supporting instrumentation includes trip amplifiers, indicators, PC interfaces, rack systems, etc.

*Transducer Specialists...*

## APPLIED MEASUREMENTS LIMITED

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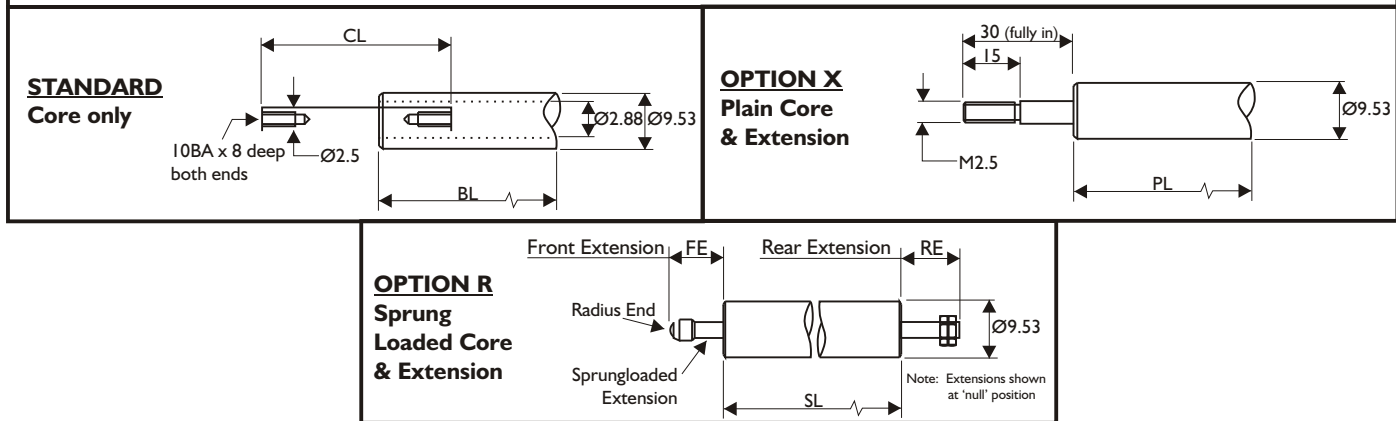


# SPECIFICATION

CHARACTERISTICS	AML/M	AML/MJ	UNITS
Stroke Measurement Range:	$\pm 0.25, \pm 0.5, \pm 1, \pm 2.5, \pm 5, \pm 12.5, \pm 25, \pm 50$		millimetres
Signal Output:	See Table Below		
No. of Wires	6	4	
Supply Voltage:	2 to 5Vrms @ 1 to 5kHz		
Non-Linearity:	<0.50		$\pm\%$ Stroke Range
Repeatability:	<0.10		$\pm\%$ Stroke Range
Output Bandwidth:	180		Hz
Operating Temperature Range:	-30 to +85°C Standard (-30 to +150°C Optional)		
Zero Temperature Coefficient:	<0.020		$\pm\%$ Stroke Range/°C
Span Temperature Coefficient:	<0.020		$\pm\%$ Stroke Range/°C
Vibration Resistance:	20g up to 2kHz		
Shock Resistance:	1000g for 10milliseconds		
Construction Material:	Stainless Steel (core and case)		
Connections:	2m screened cable exiting axially, N/A on spring-loaded (radial exit optional - request option C)		
Environmental Sealing:	IP40		

Note: On versions with in-line signal conditioner zero output (0Vdc / 4mA) is given with the core in the extended / outwards position. This can be reversed if required, please request **Option Y** on your order.

## CORE/EXTENSION MOUNTING OPTIONS



All dimensions in mm

STROKE (mm)	Core/Extension STANDARD		Core/Extension OPTION X		Core/Extension OPTION R		Output Sensitivity @3kHz (mV/V)
	BL	CL	PL	SL	FE	RE	
$\pm 0.25$	25	12.5	25	25	20	10	28
$\pm 0.5$	25	12.5	25	25	20	10	55
$\pm 1$	30	20	30	30	20	10	115
$\pm 2.5$	38	20	38	38	23	11	90
$\pm 5$	55	20	55	55	29	11.5	80
$\pm 12.5$	82	30	82	82	53	20	300
$\pm 25$	150	76	150	150	70	30	240
$\pm 50$	220	94	220	220	120	57	320

