

## MHR SERIES

Miniature General Purpose AC LVDT

ENVIRONMENTAL SPECIFICATIONS & MATERIALS	
Operating temperature	-65°F to +300°F [-55°C to 150°C]
Shock survival	1,000 g (11ms half-sine)
Vibration tolerance	20 g up to 2KHz
Housing material	AISI 400 Series stainless steel
Electrical connection	Six lead-wires, 32 AWG stranded Copper, PTFE insulated, 1 foot [0.3m] long ( <i>longer wires optional</i> )
IEC 60529 rating	IP61

### Notes:

All values are nominal unless otherwise noted

Electrical specifications are for the test frequency indicated in the table

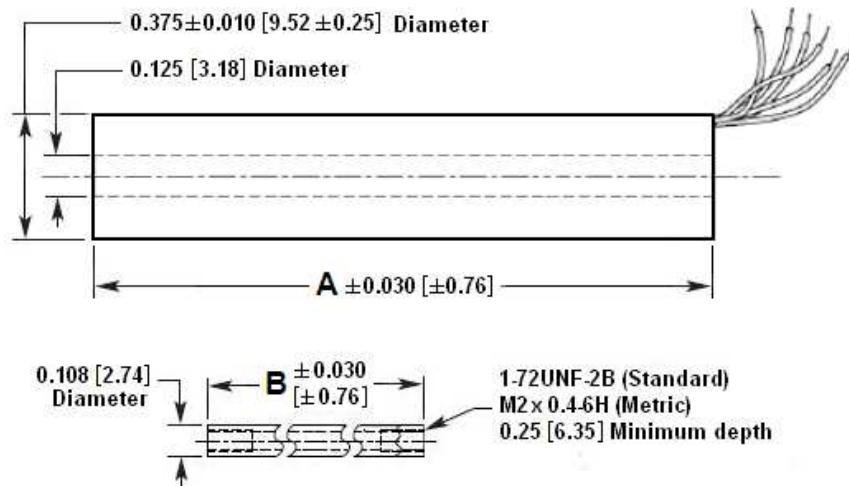
Dimensions are in inch [mm] unless otherwise noted

FR: Full Range is the stroke range, end to end; FR=2xS for ±S stroke range

FRO (Full Range Output): Algebraic difference in outputs measured at the ends of the range

## MECHANICAL SPECIFICATIONS

Parameter	MHR 005	MHR 010	MHR 025	MHR 050	MHR 100	MHR 250	MHR 500	MHR 1000	MHR 2000
Body length "A"	0.375 [9.5]	0.535 [13.6]	0.660 [16.8]	0.815 [20.7]	0.990 [25.1]	1.850 [47.0]	3.300 [83.82]	5.600 [142.2]	8.000 [203.2]
Core length "B"	0.180 [4.6]	0.233 [5.9]	0.400 [10.2]	0.500 [12.7]	0.625 [15.9]	1.125 [28.6]	2.000 [50.8]	3.000 [76.2]	3.00 [76.2]
Body weight oz [g]	0.07 [2]	0.11 [3]	0.18 [5]	0.21 [6]	0.21 [6]	0.32 [9]	0.60 [17]	0.92 [26]	1.4 [40]
Core weight oz [g]	0.004 [0.1]	0.007 [0.2]	0.016 [0.5]	0.016 [0.5]	0.025 [0.7]	0.032 [0.9]	0.056 [1.6]	0.088 [2.5]	0.088 [2.5]

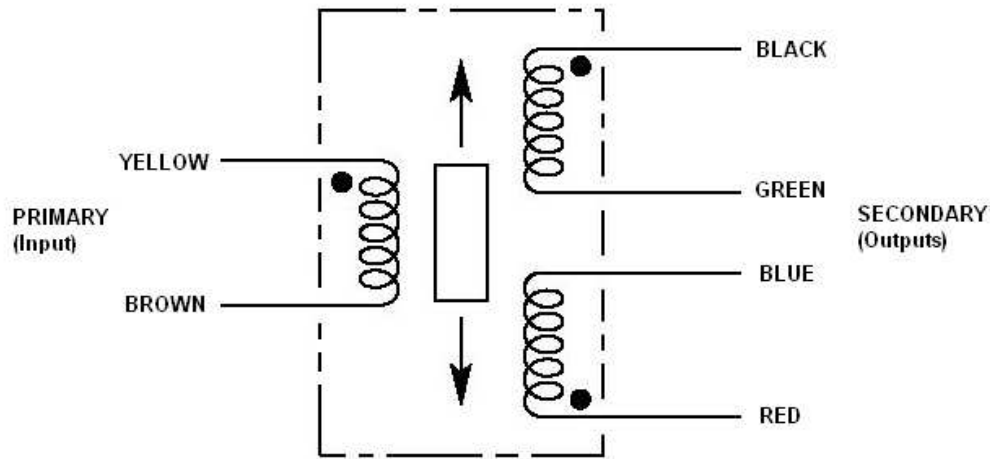


Dimensions are in inch [mm]

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### WIRING INFORMATION



Connect Blue to Green for differential output

### ORDERING INFORMATION

Description	Model	Part Number
±0.005 inch LVDT	MHR 005	02560405-000
±0.010 inch LVDT	MHR 010	02560406-000
±0.025 inch LVDT	MHR 025	02560407-000
±0.05 inch LVDT	MHR 050	02560408-000
±0.10 inch LVDT	MHR 100	02560409-000

Description	Model	Part Number
±0.25 inch LVDT	MHR 250	02560410-000
±0.5 inch LVDT	MHR 500	02560411-000
±1 inch LVDT	MHR 1000	02560412-000
±2 inch LVDT	MHR 2000	02561033-000

OPTIONS		
5.0 kHz calibration		XXXXXXXX-002
10 kHz calibration		XXXXXXXX-003
Metric threaded core		XXXXXXXX-006
10 foot long lead-wires	Consult factory	XXXXXXXX-040

**Note:** Add multiple option dash numbers together to determine proper ordering suffix

Example: MHR 1000, ±1 inch, with 5 kHz calibration and metric threaded core, P/N 02560412-008

ACCESSORIES	
Core connecting rod, 6 inches long, 1-72 threads	05282945-006
Core connecting rod, 12 inches long, 1-72 threads	05282945-012
Core connecting rod, 24 inches long, 1-72 threads	05282945-024
Core connecting rod, 36 inches long, 1-72 threads	05282945-036
Core connecting rod, 6 inches long, M2x0.4 metric threads	05282976-006
Core connecting rod, 12 inches long, M2x0.4 metric threads	05282976-012
Mounting block	04560954-000