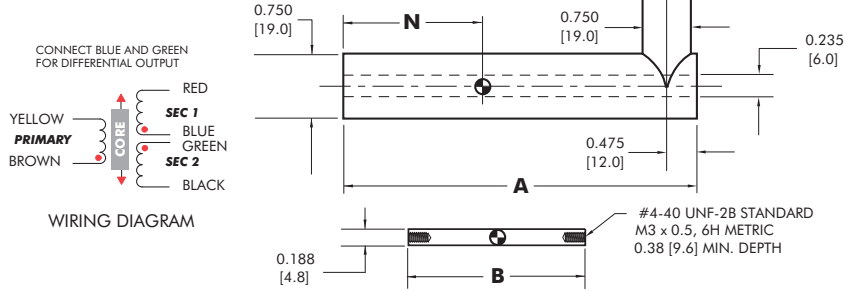




**General Specifications**

- Input Voltage:** 3.0 V<sub>rms</sub> (nominal)  
6.0 V<sub>rms</sub> (max.)
- Input Frequency:** 2.5 kHz (max.)
- Linearity Error:** ≤±0.25% of FRO
- Repeatability Error:** <0.01% of FSO
- Hysteresis Error:** <0.01% of FSO
- Operating Temperature:** See drawing
- Thermal Coefficient of Sensitivity:** -0.01%/°F (nominal)  
(-0.02%/°C nominal)
- Vibration Tolerance:** 20 g to 2 kHz
- Shock Survival:** 100 g, 11 ms

Class 1, Div. 2  
Groups A, B, C and D T3C  
Class 1, Zone 2, AEx nC IIC T3  
Ex nC IIC T3  
Ambient Temp: -20 to 300 Deg. F (150 Deg. C)  
OR  
Class 1, Div. 1  
Groups A, B, C and D T3C  
Class 1, Zone 2, AEx nC IIC T3  
Ex nC IIC T3  
Ambient Temp: -20 to 212 Deg. F (100 Deg. C)  
Max. Input: 6V rms @ 2.5 kHz  
ONLY WHEN INSTALLED PER  
MACROSENSORS 01160000113



All dimensions in inches [mm]

**Specifications**

Model	HLR 750 -1000	HLR 750 -2000	HLR 750 -3000	HLR 750 -4000	HLR 750 -5000	HLR 750 -6000	HLR 750 -7500	HLR 750 -10000
Nominal Range (inches)	±1.00	±2.00	±3.00	±4.00	±5.00	±6.00	±7.50	±10.00
Nominal Range (mm)	±25	±50	±75	±100	±125	±150	±190	±250
Sensitivity (mV/V/.001 in)	0.34	0.20	0.21	0.17	0.11	0.10	0.11	0.075
Sensitivity (mV/V/mm)	13.4	7.9	8.3	6.7	4.3	3.9	4.3	3.0
Primary Impedance (Ω)	785	575	170	420	540	450	775	620
Dimension "A" (inches)	7.34	10.91	13.65	16.17	18.65	18.65	23.85	31.65
Dimension "A" (mm)	186.4	277.1	346.7	410.7	473.7	473.7	605.8	803.9
Dimension "B" (inches)	4.00	5.30	6.20	6.20	6.20	5.30	7.00	9.50
Dimension "B" (mm)	101.6	134.6	157.5	157.5	157.5	134.6	177.8	241.3
Dimension "N" (inches)	3.32	5.07	6.29	7.65	8.94	8.94	11.52	15.42
Dimension "N" (mm)	84.3	128.8	159.8	194.3	227.1	227.1	292.6	391.7
Weight - Body (ounces)	10.3	12.2	14.2	15.1	16.0	16.0	22.6	24.3
Weight - Body (g)	292	346	400	428	454	454	640	690
Weight - Core (ounces)	0.50	0.65	0.78	0.78	0.78	0.65	0.88	1.20
Weight - Core (ounces)	14.2	18.4	22.1	22.1	22.1	18.4	25.0	34.0

**Ordering Information**

- For standard HLR 750, order by model number with range
- For metric threaded core option, add -006 after model number with range
- For Teflon® bore liner option, add -010 after model number with range
- For both options, add -016 after model number with range
- For accessories and compatible support electronics, please visit our website at [www.macrosensors.com](http://www.macrosensors.com).



*Innovators in Position Sensing*

All specifications subject to change without notice.  
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