



Inductive short-stroke Displacement Transducers

Differential inductance system

Series WM / WLH / WV

MESSOTRON



Type WM
miniature version



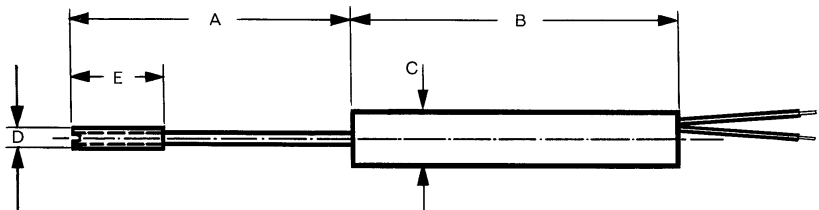
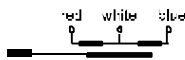
Type WLH
economic, compact sensor



Type WV
precision sensor (low-cost series)

Braided wire interface

Teflon litz 250 mm long
Continuous core channel



Example: WM 1 0.5%

		WM 1	WM 2	WLH 1	WLH 2	WLH 5	WV 2	WV 5
Nominal stroke	mm	±0.5	±1	±0.5	±1	±2.5	±1	±2.5
Maximum stroke	mm	3	3	2	3	6	6	6
Dimension A	mm	25	25	30	30	40	30	30
Dimension B	mm	15	15	22	22	30	50	50
Dimension C	mm	10	10	12	12	12	14	14
Dimension D	mm	M3	M3	M5	M5	M5	M3	M3
Dimension E	mm	10	10	15	15	15	10	10
Transducer weight	g	6	6	11	11	15	25	25
Core weight	g	1	1	2	2	3	5	5
Nominal output signal (approx.)	mV/V	40	80	40	80	125	30	75
Sensitivity (approx.)	mV/V/mm	80	80	80	80	50	30	30
Excitation voltage	V eff	1 ... 5 V						
Excitation frequency	kHz	5 ... 10 kHz						
Linearity *)		0.5% F.S.O.		0.5% F.S.O.			0.5% F.S.O.; option: 0.25% or 0.1%	
Temperature coefficient of zero		±0.05%/10K						
Temperature coefficient of span		±0.05%/10K						
Operating temperature		-50°C ... +80°C						
Protection class (DIN 40050)		IP 64						
Data sheet (specification) no.		15.00.00		16.40.00			13.31.01	

*) select option when ordering

	Series WM / WLH / WV 1 ... 5 mm	Data Sheet see table
		Date 03/95