

WI

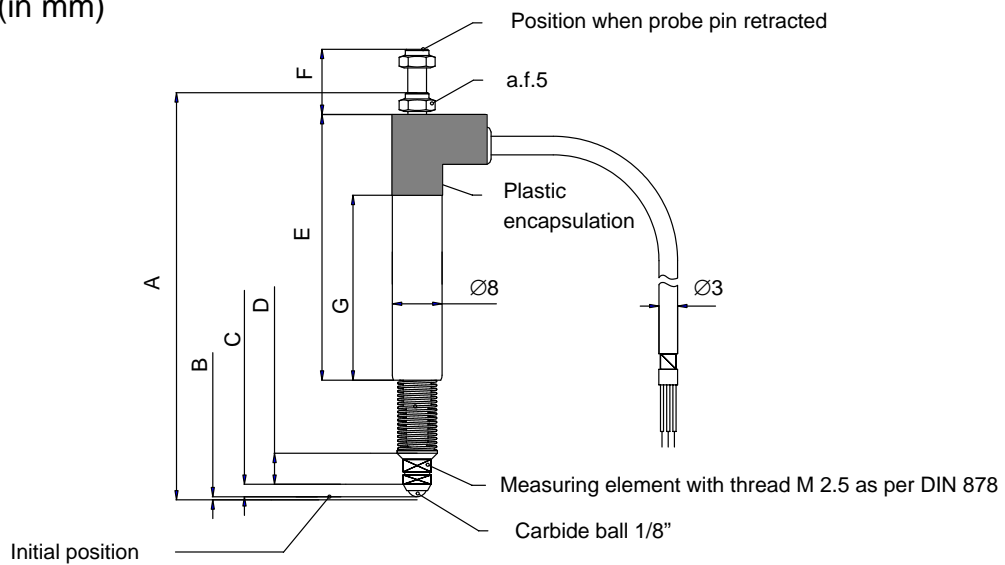
Displacement transducer

Special features

- Short overall length
- Shaft diameter 8mm
- Protection class IP67
- Good price/performance ratio



Dimensions (in mm)



Type	A	B	C	D	E	F	G
WI/2mm-T	65.5	0.5	2	5	42.75	10.5	29.75
WI/5mm-T	79.5	0.5	5	2.5	55.8	11	41.8
WI/10mm-T	95	0.5	10	1.5	64.8	15	51.8

Specifications

Transducer type		WI/2mm-T	WI/5mm-T	WI/10mm-T
Nominal (rated) displacement (nominal (rated) measuring span)	mm	2	5	10
Nominal (rated) output span (between starting point and end point when output is not under load)	mV/V	80	80	80
Nominal (rated) signal at starting point	mV/V	-40		
Nominal (rated) signal at end point	mV/V	40		
Nominal (rated) output span tolerance	%	± 1		
Zero signal		The output signal is zero when the plunger or the probe is located in mid measuring range		
Zero signal setting tolerance	mV/V	± 4		
Linearity deviation (max. deviation between starting point and end point (including hysteresis))	%	± 0.2		
Nominal (rated) temperature range	°C	10 ... 60		
Operating temperature range	°C	-20 ... +80		
Temperature effect in the nominal (rated) temperature range on the zero signal, related to the nominal output span per 10 K	%	± 0.1	± 0.1	± 0.1
on the nominal (rated) output span related to the actual value per 10 K	%	± 0.2	± 0.2	± 0.2
Weight of measuring element without connection cables	g	12	15	20
of moving parts	g	4.25	4.8	5.5
Amount of input impedance	Ω	x	x	x
Nominal (rated) excitation voltage (effective)	V _{eff}	2.5		
Operating range of excitation voltage	V _{eff}	0.5 ... 10		
Carrier frequency	Hz	4800 ± 8%		
Degree of protection as per EN 60529 for transducer duct and core channel	-	IP67		
Surface materials	-	rustproof		
Load capacity with vibration sinusoidal DIN40046/8 IEC Part 2-6 (type-tested) Frequency range	Hz	5 to 65		
Vibration acceleration	m/s ²	150		
Duration (per direction)	h	0.5		
Load capacity with mechanical shock Sheet 26 (type-tested) Number of impacts (per direction)	-	1000		
Impact acceleration	m/s ²	650		
Impact duration	ms	3		
Impact form	-	Half sine wave		
Spring constant	N/mm	0.1	0.04	0.08
Spring force at starting point	N	0.8		
Spring force at end point	N	1	1	1.6
Max. permissible acceleration of probe tip and plunger, approx.	m/s ²	180	160	140
Cut-off frequency of probe tip at ± 1 mm stroke, approx.	Hz	68	64	60
at maximum stroke, approx.	Hz	68	45	27
Cable length , approx.	m	3		
Cable type	-	PU black		

Accessory:

Assembly set, mounting block 8 mm, tool

Order no.: 1-WZB8

Subject to change without notice.
All details only give general descriptions of our products.
They are not to be understood as an express warranty
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Hottinger Baldwin Messtechnik GmbH

Postfach 10 01 51, D-64201 Darmstadt
Im Tiefen See 45, D-64293 Darmstadt
Tel.: +49/ 61 51/ 8 03-0; Fax: +49/ 61 51/ 8039100
E-mail: support@hbm.com www.hbm.com



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