

# WI

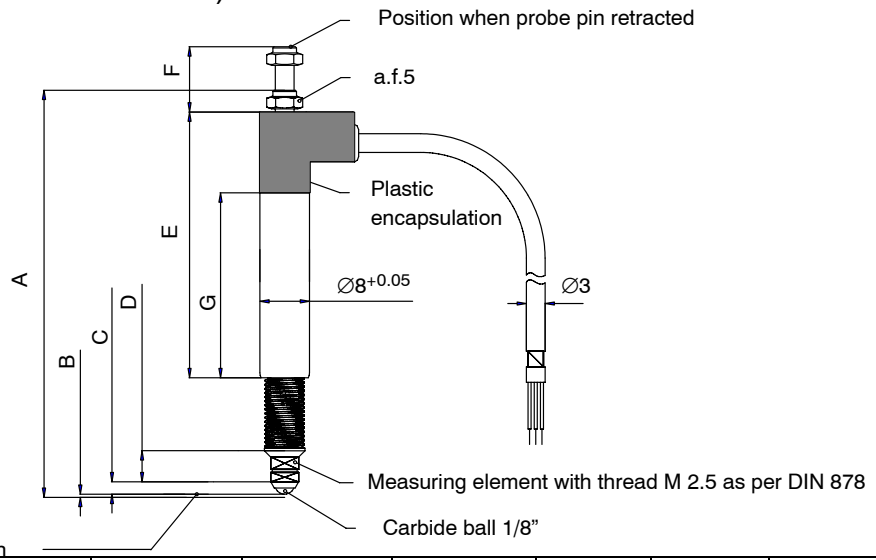
## Displacement transducer

### Special features

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



Dimensions (in mm; 1 mm= 0.03937 inches)



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
<b>Nominal (rated) displacement (nominal (rated) measuring span)</b>	mm	2	5	10
<b>Nominal (rated) output span</b> (between starting point and end point when output is not under load)	mV/V	80	80	80
<b>Nominal (rated) signal</b> at starting point	mV/V	-40		
<b>Nominal (rated) signal</b> at end point	mV/V	40		
<b>Nominal (rated) output span tolerance</b>	%	± 1		
<b>Zero signal</b>		The output signal is zero when the plunger or the probe is located in mid measuring range		
<b>Zero signal setting tolerance</b>	mV/V	± 4		
<b>Linearity deviation</b> (max. deviation between starting point and end point (including hysteresis))	%	± 0.2		
<b>Nominal (rated) temperature range</b>	°C	10 ... 60		
<b>Operating temperature range</b>	°C	-20 ... +80		
<b>Temperature effect in the nominal (rated) temperature range</b> 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
<b>Weight</b> of measuring element without connection cables	g	12	15	20
of moving parts	g	4.25	4.8	5.5
<b>Amount of input impedance</b>	Ω	27	42	45
<b>Nominal (rated) excitation voltage</b> (effective)	V <sub>eff</sub>	2.5		
<b>Operating range of excitation voltage</b>	V <sub>eff</sub>	0.5 ... 10		
<b>Carrier frequency</b>	Hz	4800 ± 8%		
<b>Degree of protection as per EN 60529</b> for transducer duct and core channel	-	IP67		
<b>Surface materials</b>	-	rustproof		
<b>Load capacity with vibration</b> sinusoidal DIN40046/8 IEC Part 2-6 (type-tested) Frequency range	Hz	5 to 65		
Vibration acceleration	m/s <sup>2</sup>	150		
Duration (per direction)	h	0.5		
<b>Load capacity with mechanical shock</b> Sheet 26 (type-tested) Number of impacts (per direction)	-	1000		
Impact acceleration	m/s <sup>2</sup>	650		
Impact duration	ms	3		
Impact form	-	Half sine wave		
<b>Spring constant</b>	N/mm	0.1	0.04	0.08
<b>Spring force at starting point</b>	N	0.8		
<b>Spring force at end point</b>	N	1	1	1.6
<b>Max. permissible acceleration</b> of probe tip and plunger, approx.	m/s <sup>2</sup>	180	160	140
<b>Cut-off frequency</b> of probe tip at ± 1 mm stroke, approx.	Hz	68	64	60
at maximum stroke, approx.	Hz	68	45	27
<b>Cable length</b> , approx.	m	3		
<b>Cable type</b>	-	PU black		

### Accessory:

Assembly set, mounting block 8 mm, tool

Order no.: 1-WZB8

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