Data sheet

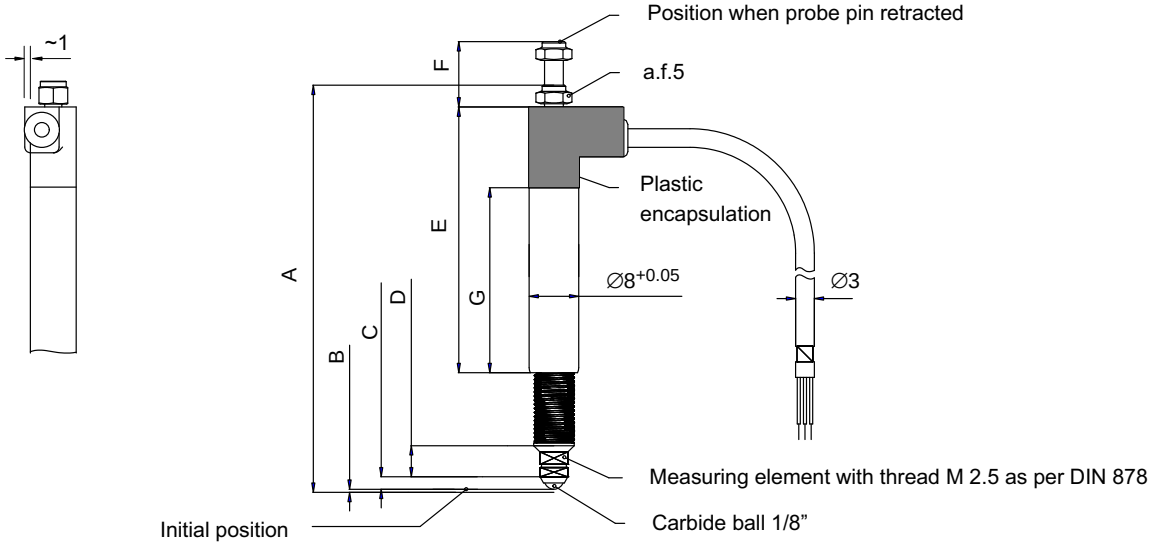
WI

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	66	0.5	2	5	43	~12	29
WI/5mm-T	79	0.5	5	2.5	56	~12	42
WI/10mm-T	95	0.5	10	1.5	65	~16	52

Chongqing PACO Sci. & Tech. Development Co., Ltd.
Tel. +86-23-6879 5340 E-mail: cqpaco@hotmail.com www.chinacqpaco.com

HBM

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	27	42	45
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	0.05	0.05	0.1
Spring force at starting point	N	0.8		
Spring force at end point	N	0.9	1.05	1.8
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	40	27
Cable length, approx.	m	3		
Cable type	-	PU black		

Accessory

Assembly set, mounting block 8 mm, tool Order no.: 1-WZB8

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