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) Position when probe pin retracted ш a.f.5 Plastic encapsulation ш ∢ Ø8+0.05 Ø3 വ C В $\overline{}$ M Measuring element with thread M 2.5 as per DIN 878 Initial position Carbide ball 1/8" Туре Α в С D Е 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 th 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		
	U		20 100	1
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 Carrier frequency	V _{eff} Hz	0.5 10 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/s²	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	Ν	0.8		
Spring force at end point	Ν	0.9	1.05	1.8
Max. permissible acceleration of probe tip and plunger, approx.	m/s²	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 Modifications reserved. H All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever. Order no.: 1-WZB8

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