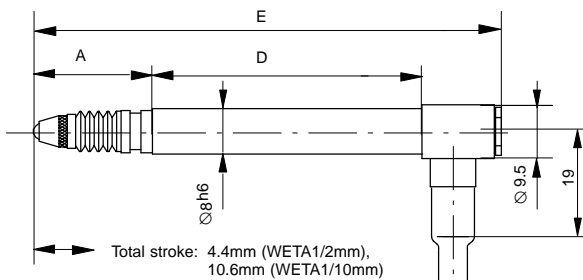


Special features

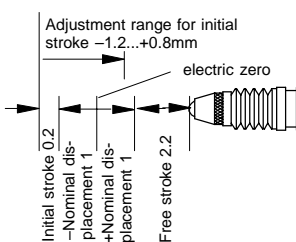
- Precision ball guide
- Wear-resistant inductive measurement principle
- Dimension of shaft $\varnothing 8^{h6}$ and measurement insert M2.5 acc. to DIN 878 dial gauge standard
- Initial stroke adjustment with WETA1/2mm as standard
- Probe tip stiff against torsion

Dimensions (in mm, 1mm = 0.03937inches)

WETA1/2mm
WETA1/10mm



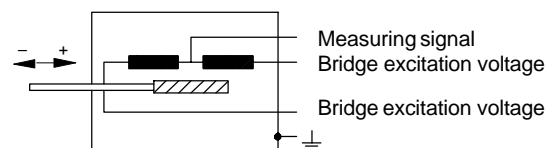
Measuring range	A	D	E
$\pm 1\text{mm}$	21.0	47.5	82.5
$\pm 5\text{mm}$	26.5	72.0	113.0



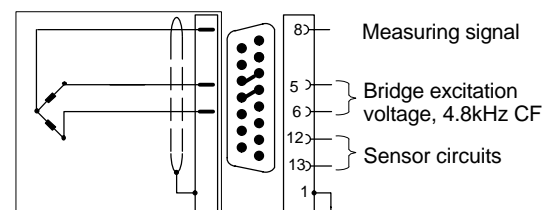
PUR cable, 2m long

15-pin D-connector with built-in balancing

Electrical principle



Allocation of the D-connector



Bridge for sensor circuits between contacts 6 and 13 and between 5 and 12

Dimensional variation according to ISO 2768 - coarse

Specifications

Type		WETA1/2mm	WETA1/10mm
Nominal displacement	mm	± 1	± 5
Principle		Displacement probe	
Total stroke	mm	4.4 (+0.4)	10.6
Initial stroke	mm	0.2 ± 0.1	
Adjustment range for stroke	mm	- 1.2...+0.8	
Core in middle position (electrical zero), approx.	mm	1.2	5.2
Sensitivity ¹⁾	mV/V	± 10 ± <0.5%	± 10 ± <1%
Linearity deviation ¹⁾ (zero-endpoint line)	%	<0.3	<0.9
Nominal temperature range	°C [°F]	-10...+65 [+15...+150]	
Protection class to EN 60 529		IP64	
Nominal excitation voltage (rms value)	V	1	
Excitation voltage range (rms value)	V	1...3	
Carrier frequency ²⁾	kHz	4.8...5.3	
Movable mass	g	6	
Material of the surfaces Plunger and limiting components		1.4034, Titan coated	
Spring constant, approx.	N/mm	0.17	0.1
Preload on spring, core in middle position (electrical zero)	N	0.60 ± 15%	1 ± 15%
Mechanical limit frequency, at 300µm displacement	Hz	60	35
Fatigue impact test, Measuring element (to IEC 68, part 2 - 29, type tested)			
Number of impacts (in each direction)	n	1000	
Impact acceleration	m/s ²	650	
Impact duration	ms	3	
Impact from		Sine half wave	

¹⁾ With built-in balancing in the 15-pole D-connector

²⁾ Also available for carrier frequency 13kHz



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