



Heavy Duty LVDT Probe

- Robust industrial design with guided core
- Full (symmetric) LVDT configuration
- Ø25 mm diameter housing
- Optionally with scale on core rod and stainless steel protective cable hose

Technical data

		DTC 20	DTC 40	DTC 50	DTC 100
Nominal stroke	mm	±10	±20	±25	±50
Dimension B	mm	195	255	265	435
Dimension A	mm	30	40	45	70
Measuring force at zero (approx.)	N	7,0	8,3	8,3	9,4
Spring constant (approx.)	N/mm	0,33	0,15	0,13	0,08
Sensor weight (approx.)	g	500	630	650	950
Core weight (approx.)	g	55	76	80	80
Rated output @ 5 kHz **)	mV/V	80	80	80	80
Body diameter D	25 mm				
Core diameter d	3 mm				
Carrier frequency *)	5 kHz optional 10 kHz				
Recommended amplifier	e.g. MBI 46.31 / 46.32				
Excitation voltage (eff.)	Recommended 1 ... 5 Vac				
dynamic measurements	< 5 Hz				
Linearity *)	< ±0,4% F.S.O.; optional: ±0,2%				
Temperature coefficient of zero	< ±0,1% / 10K				
Temperature coefficient of span	< ±0,15% / 10K				
Operating temperature	-50°C ... +120°C				
Protection class (DIN 40050)	IP 54				

*) Specify options on order

**) indicative figures only, determined phase-independent

Model list

Order code e

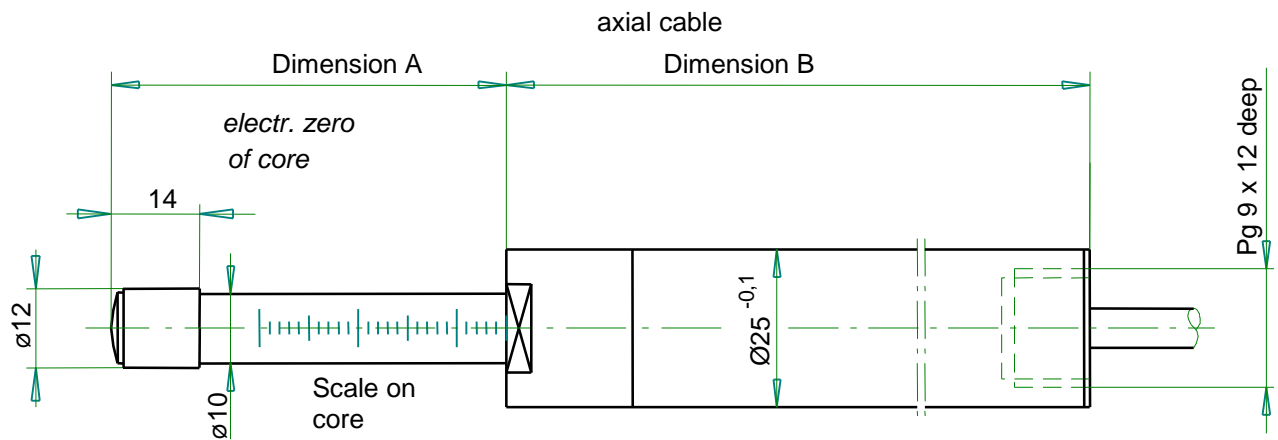
DTC	nnn	NN		n,n%		/Option1 /Option2
Series	Stroke	Connection		Linearity (FSO)		Options
	See specification	Axial cable	Radial cable	0,4%	0,2%	Carrier frequency
			Q			/10 kHz
DTC	20 ... 100	X	O	X	O	O

X = available standard model

O = option

-- = not available

Mechanical drawings



Connection

	Cable
	PTFE-cable 5 m long:
Excitation +	White
Excitation -	Blue
Measuring signal -	Red
Measuring signal +	Black

Notes

The movement (forces) must act strictly in axial direction on the cantilever. Radial forces / movement can lead to a premature wear or even to blocking of the core rod.