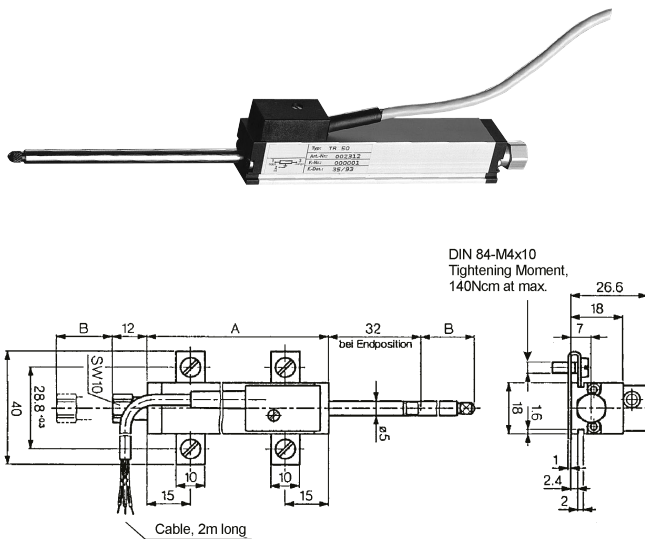




## Displacement Tracer, Potentiometric FWA xxx TR



- Resistor and collector paths made from conducting plastic.
- Suitable for direct measurements of displacement without a form-locking connection, position detection at stationary measuring objects, tolerance measurements and for continuous contour measurement.
- The pull rod, which is supported on both sides, allows for accepting transverse forces that, for example, occur during a continuous scan of curves or spline parts.
- Rear limit stop is used to provide a simple mechanical coupling of automatic retraction systems, such as pneumatic cylinders or electromagnets.
- Long life, extraordinary linearity, tracer pin running on two exact bearings, DIN compliant standard measuring inserts can be used, shock and vibration resistant.

! Pre-adjusted in the factory by storing the correction values in the ALMEMO® connector. The precise adjustment can be locally performed by the user with final measures after the installation.

### Other version:

Displacement transducer with digital ALMEMO® D7 measuring plug, see page 10.16.  
Digital sensor, can be calibrated without measuring device.  
Measurement of fast displacement changes.

### Technical Data:

Independent linearity:	TR25: ±0.2%; TR50: ±0.15%	Operating force (horizontal):	≤ 5 N
	TR75: ±0.1%;	Reproducibility:	0.002mm
	TR100: ±0.075%	Insulation resistance:	≥ 10MW (500VDC, 1 bar, 2s)
Housing length (meas. A+1mm):	TR25: 63mm;	Dielectric strength:	≤ 1mA (50Hz, 2s, 1 bar, 500VAC)
	TR50: 94.4mm;	Max. permissible torque:	140Ncm
	TR75: 134.4mm;	Temperature range:	-30 to +100°C
	TR100: 166mm	Temperature coefficient:	typ. 5ppm/°C
Mech. stroke (meas. B ±1.5mm):	TR25: 30mm; TR50: 55mm	Vibrations:	5 to 2000Hz/Amax = 0.75mm/amax = 20g
	TR75: 80mm;	Shock:	50g/11ms
	TR100: 105mm	Life span:	> 100 x 106 strokes
Total weight (with 2m cable):	TR25: 120g; TR50: 150g	Protection system:	IP 40
	TR75: 180g; TR100: 200g		
Weight of the pull rod incl. coupling and sliding contact block:	TR25: 25g; TR50: 36g		
	TR75: 48g; TR100: 57g		
Max. operating frequency: (for most critical application 'probe tip upright')	TR25: 18Hz; TR50: 14		
	TR75: 11Hz; TR100: 10Hz		

### Option

Plug connection (instead of fixed connected cable), including 3m cable with screwed round socket and ALMEMO® connector

Order no.

OWA071AK

### Types

Working length/resolution, incl. ALMEMO® cable 2m long

25 mm / 0,001 mm	<b>FWA025TR</b>
50 mm / 0,01 mm	<b>FWA050TR</b>
75 mm / 0,01 mm	<b>FWA075TR</b>

Order no.

100 mm / 0,01 mm

Order no.

**FWA100TR**

included with delivery

2 tensioning clamps Z3-31 including 4 cap screws M4x10,  
1 probe tip with hard-metal ball