	Incremental **ROD 780**	**ROD 880**
Measuring standard	DIADUR circular scale with incremental track	
Line count*	18000 36000	36000
System accuracy	± 2″	± 1″
Position error per signal period	*18000 lines:* ≤ ± 0.7″ *36000 lines:* ≤ ± 0.35″	≤ ± 0.35″
Interface	⌒ 1 V_{PP}	
Reference mark*	*ROD x80:* One *ROD x80C:* Distance-coded	
Cutoff frequency –3 dB	≥ 180 kHz	
Electrical connection*	Cable 1 m, with or without M23 coupling (male, 12-pin)	
Cable length[1)]	≤ 150 m	
Voltage supply	5 V DC ± 0.5 V/≤ 150 mA (without load)	
Shaft	Solid shaft D = 14 mm	
Mech. permissible speed	≤ 1000 min^{-1}	
Starting torque	≤ 0.012 Nm at 20 °C	
Moment of inertia of rotor	$0.36 \cdot 10^{-3}$ kgm^2	
Shaft load	*Axial:* 30 N *Radial:* 30 N at shaft end	
Vibration 55 to 2000 Hz **Shock** 6 ms	≤ 100 m/s^2 (EN 60068-2-6) ≤ 200 m/s^2 (EN 60068-2-27)	
Operating temperature	0 °C to 50 °C	
Protection EN 60 529	IP 64	
Weight	≈ 2.4 kg	

* Please select when ordering
[1)] With HEIDENHAIN cable