

	ROD 260 incremental	ROD 270 incremental	ROD 250 incremental	ROD 280 incremental
Power supply	5 V ± 10%/max. 220 mA (with no load)	5 V ± 10%/max. 150 mA (with no load)	5 V ± 5%/max. 90 mA	5 V ± 10%/max. 150 mA (with no load)
Incremental signals	□□ TTL	□□ TTL with 5-fold interpolation	~ 11 μApp	~ 1 Vpp
Line count z/Accuracy	9000/± 7" (not with ROD 2x0C) 10000/± 6" (not with ROD 2x0C) 18000/± 5"			
Recommended meas. step	0.005° (z = 18000)	0.001° (z = 18000)	0.0005° (z = 18000)	
Reference mark	One		ROD 2x0: one ROD 2x0C: distance-coded	
Output frequency	Max. 1 MHz	Max. 250 kHz	-	
Cutoff frequency (-3 dB)	-		≥ 160 kHz	≥ 180 kHz
Mech. perm. speed	Max. 10 000 rpm			
Max. operating temp.	70 °C (158 °F)			
Min. operating temp.	Moving cable: -10 °C (14 °F) Rigid cable: -20 °C (-4 °F)			
Protection (IEC 529)	IP 64			
Starting torque at 20 °C (68 °F)	≤ 0.01 Nm			
Moment of inertia of rotor	20 · 10 ⁻⁶ kgm ²			
Shaft load	Axial: 10 N Radial: 10 N at shaft end			
Weight	Approx. 0.7 kg (1.5 lb)			
Vibration (55 to 2000 Hz) Shock (6 ms)	≤ 100 m/s ² (IEC 68-2-6) ≤ 1000 m/s ² (IEC 68-2-27)			
Electrical connection	Cable 1 m (3.3 ft), can be used radially and axially; Preferred model: cable 1 m with connecting element			
	With or without coupling		With or without connector	With or without coupling
Permissible cable length* to subsequent electronics	Max. 50 m (164 ft)	Max. 100 m (329 ft)	Max. 30 m (98.5 ft)	Max. 150 m (492 ft)

* with HEIDENHAIN cable, see *Connectors and Cables*

Preferred models are manufactured in larger quantities and are available at short notice