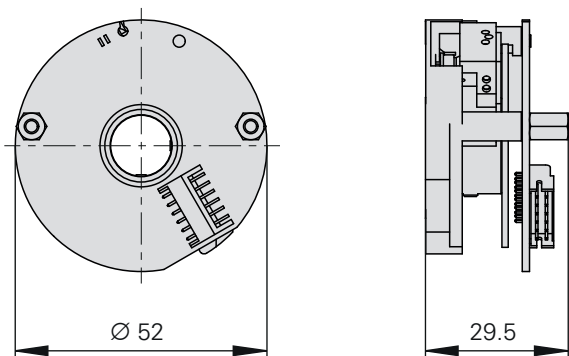


ERO 1200 series

- Incremental rotary encoders
- Flange for axial mounting
 - Hollow through shaft
 - Without integral bearing



Overall dimensions indicated without tolerances



For technical drawings, visit: www.heidenhain.com/documentation



Mating dimensions
[ID 332878](#)

	Incremental	
	ERO 1225	ERO 1285
Interface	□□TTL	~ 1 V _{PP}
Line count*	1024 2048	
Accuracy of graduation ²⁾	±6"	
Reference mark	One	
Output frequency	≤ 300 kHz	–
Edge separation <i>a</i>	≥ 0.39 μs	–
Cutoff frequency –3 dB	–	≥ 180 kHz (typical)
System accuracy ¹⁾	1024 lines :± 92" 2048 lines :± 73"	1024 lines :± 67" 2048 lines :± 60"
Electrical connection	12-pin	
Supply voltage	DC 5 V ±0.5 V	
Current consumption (without load)	≤ 150 mA	
Shaft*	Hollow through shaft Ø = 10 mm or Ø = 12 mm	
Moment of inertia of rotor	Shaft Ø 10 mm: 2.2 · 10 ^{–6} kgm ² Shaft Ø 12 mm: 2.2 · 10 ^{–6} kgm ²	
Mech. permiss. shaft speed <i>n</i>	≤ 25000 rpm	
Permissible axial motion of measured shaft	1024 lines: ±0.2 mm 2048 lines: ±0.05 mm	±0.03 mm
Vibration 55 Hz to 2000 Hz	≤ 100 m/s ² (EN 60068-2-6)	
Shock 6 ms	≤ 1000 m/s ² (EN 60068-2-27)	
Operating temperature	–40 °C to 100 °C	
Protection EN 60529	IP00	
Mass	≈ 0.07 kg	
Part number	1037521-xx (scanning unit) 332378-xx (disk/hub assembly)	1037522-xx (scanning unit) 332378-xx (disk/hub assembly)

* Please select when ordering
¹⁾ When not mounted; additional deviations due to mounting and bearing of the measured shaft are not taken into account
²⁾ For other errors, see *Measuring accuracy*