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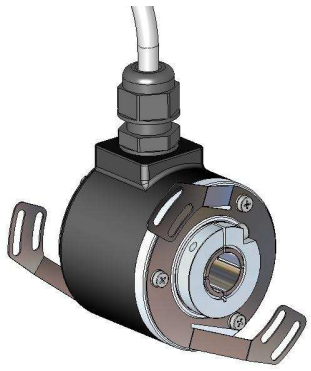
RCI58B HS

CE



Incremental Optical Encoder with Hollow Shaft

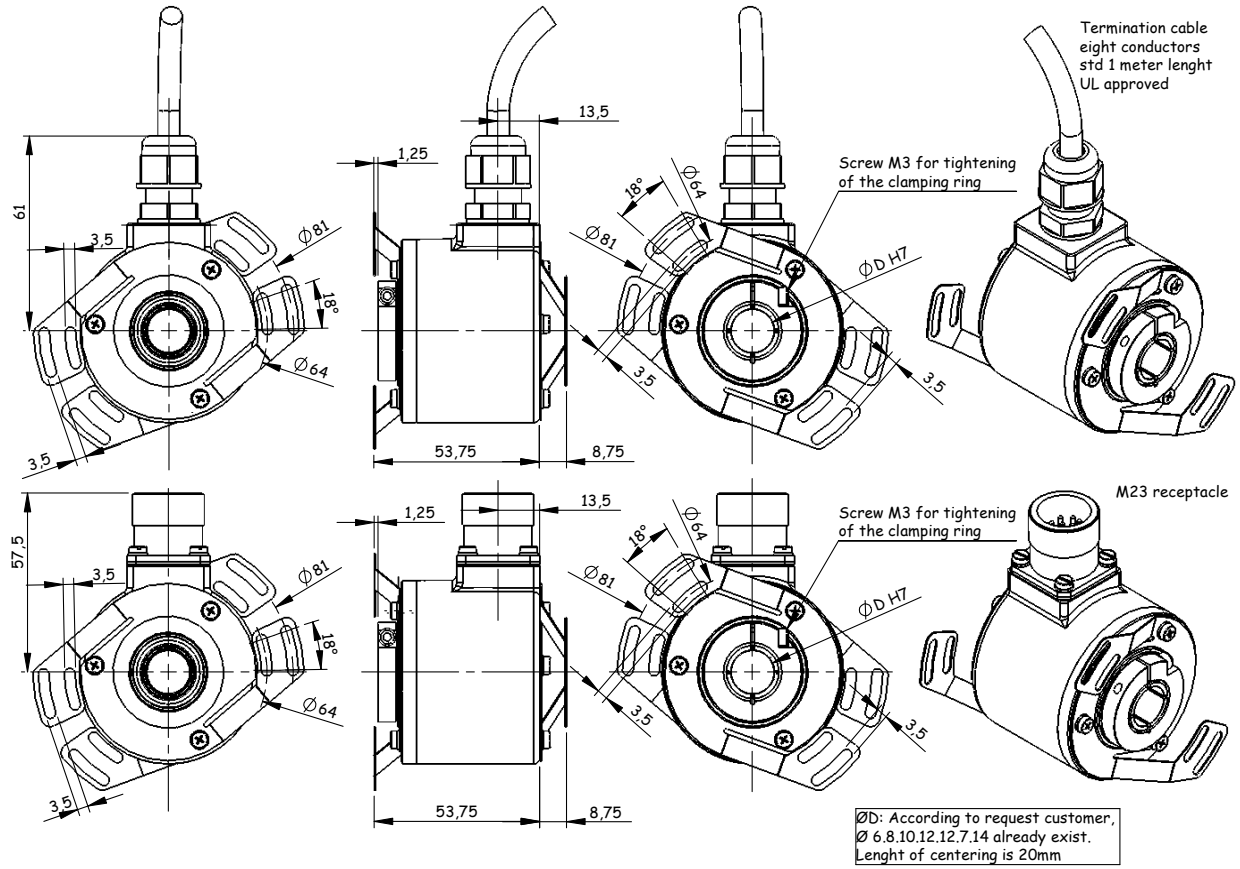
RADIO-ENERGIE optical incremental encoders are designed for accurately measuring speed and position of rotating shafts in industrial environment: machine tools, motor drives …
They use a differential optical and ratio metric principle to minimize temperature and photodiode aging effects.
Their universal complementary push-pull output interface and their large supply voltage range make them very easy to connect to most of electronic control units with high noise immunity.

Main features

• Shaft type	Hollow Shaft Ø 15 mm. Others diameters available (Ø 6, 8, 10,12, 14 mm) with reduction ring
• Housing diameter	59 mm
• Fixation	Spring plate with 2 fixation arms. Additional spring plate can be fitted in the rear (see drawing)
• Body - Cover	Aluminium – Zamac
• Shaft	Stainless steel
• Pulses per turn	1024, 2048 and others resolutions upon request
• Output signals	A & B with gated Z
• Connections	Radial cable or M23
• Operating temperature range	- 25°C / + 85°C

Outline drawings

with Radial CABLE - with M23 CONNECTOR



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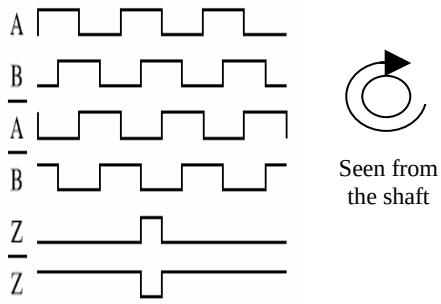
Electrical characteristics

- Supply voltage: 4,5 to 30 Vdc with reverse polarity protection
- No load supply current: 100 mA under 4.5 V – 25 mA under 24 V
- Output signals: Universal complementary push-pull (short circuit protected, 7272)
  RS422 compatible with 5 V supply voltage
- Max output frequency: 300 kHz
- Max load current: 20 mA max
- EMC: According to EN 61000-6-2 and EN 61000-6-4

Connections

	Cable UL - 8 wires	M23 - CW	MS310	Output waveforms
A	white	5	A	
A /	Yellow	6	H	
B	blue	8	B	
B /	orange	1	I	
Z	green	3	C	
Z /	Brown	4	J	
Vcc (+)	red	12	D	
Gnd (-)	black	10	F	
Ground case	drain	9	G	

Mechanical characteristics

- Max continuous speed: 6 000 rpm
- Starting torque: < 3 N.cm
- Shaft Inertia: 62 gr.cm²
- Weight: 300 gr
- Protection: IP 65 at housing (IEC 60529) and IP64 at shaft inlet
- Max shock: 100 g, 6 ms (IEC 68-2-27)
- Max vibrations: 10 g, 10-2000 Hz (IEC 68-2-6)

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