



Incremental Optical Encoder with Blind 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

Housing diameter

Fixation

Body - Cover

Shaft

Pulses per turn

Output signals

Connections

• Operating temperature range

Standard Blind Shaft Ø15 mm : others diameters available (Ø 6, 8, 10,12, 14 mm) with reduction ring

Spring plate with 2 fixation arms

Aluminium - Zamac

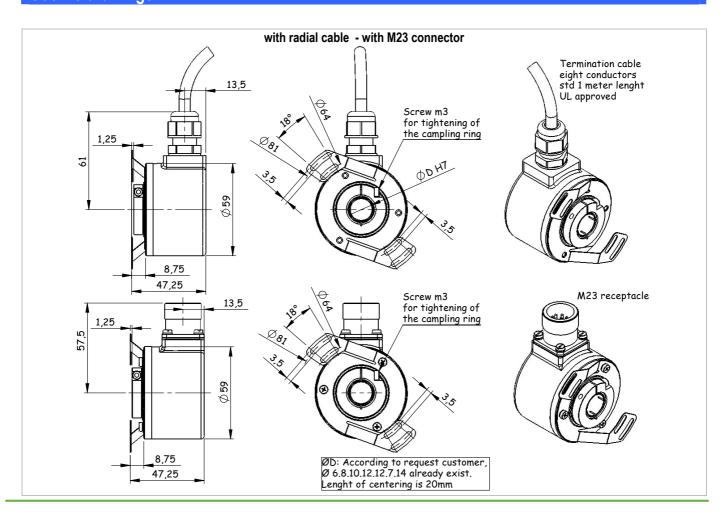
Stainless steel

1024, 2048 and others resolutions upon request

A & B with gated Z Radial cable or M23

- 25°C / + 85°C

Outline drawings





Transdrive Engineering Services Ltd, Units 18 - 20 Moss Lane, Heyside, Royton, Oldham. OL2 6HR. England, UK





Electrical characteristics

Supply voltage 4,5 to 30 Vdc

• 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	yellow	6	Н	
Α/	white	5	Α	
В	orange	1	I	
В/	blue	8	В	
Z	brown	4	J	
Z/	green	3	С	B Seen from the shaft
Vcc (+)	red	12	D	7.
Gnd (-)	black	10	F	
Ground case	drain	9	G	Z

Mechanical characteristics

Max continuous speed
Starting torque
Shaft Inertia
Weight
10 000 min-1
0.5 N.cm
62 gr.cm²
300 gr

Protection
IP 65 (IEC 60529) and IP64 at shaft inlet

Max shock
Max vibrations
100 gr, 6 ms (IEC 68-2-27)
10 gr, 10-2000 Hz (IEC 68-2-6)

Ordering Code

RCI58B-BS14-2-01024-CA01

Ø Spring Resolution Connection plate

• Diameters 06 (6 mm), 08 (8 mm), 10 (10 mm), 12 (12 mm) and 14 (14 mm – standard) with reduction ring

15 (15 mm)

Spring plates
2 (2 fixation arms, standard)

Standard resolutions
1024, 2048 and others resolutions upon request

• Connections CA01: one meter cable, radial output - other lengths on request up to 10 meters (CA10)

23C1: M23 connector, 12 pins clockwise (CW)

MILP: MS310 connector, 10 pins *Others connections on request*

- We reserve the right to modify technical characteristics in the interest of technological advance -



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