

RCI444-22 Incremental Encoder



- Perfect suitability with RE.0 tachogenerators flange
- Strong body dedicated for the industrial environment
- IP65
- Up to 10 000 impulses per turn
- Universal electronic

Main features

- Shaft type Full shaft Ø 11 mm (7 on request)
- Housing diameter 115 mm
- Fixation Standard RE.0444 flange
- Body Aluminium
- Shaft Stainless steel
- Pulses per turn Up to 10 000 impulses per turn
- Output signals A & B with gated Z
- Connections M23 connector 12 pins - Junction Box
- Operating T° range - 40°C / + 100°C

Electrical characteristics

- Supply voltage 4,75 to 30 Vdc
- Output signals Universal complementary push-pull (short circuit protected, 7272)
RS422 compatible with 5 V supply voltage
- Max output frequency 100 kHz
- Max load current 40 mA max per channel
- EMC According to EN 61000-6-2, EN 61000-6-4 & EN 50081-1
- Insulation 1 000 V eff.

Mechanical characteristics

- Max continuous speed 10 000 min⁻¹
- Starting torque ≤ 0.5 N.cm
- Shaft Inertia 70 gr.cm²
- Weight 700 gr
- Protection IP 65 (IEC 60529) and IP64 at shaft end
- Max shock 30 g, 11 ms (IEC 68-2-27)
- Max vibrations 10 g, 10-2000 Hz (IEC 68-2-6)

Ordering code

RCI444R-FS11-1024-23C1-5

Ø Resolution Connection Options

- **RCI 444R** RADIO-ENERGIE Incremental encoder dedicated to Robust environments
- **Shaft Diameters** 11 (11 mm) other on request (7mm)
- **Resolutions** 50 60 100 120 125 127 150 180 200 240 250 256 300 314 360 375 400 500 512 600 720 750 768
800 927 1000 **1024** 1200 1440 1500 1800 2000 2048 2400 2500 3000 3600 4000 4096 5000 6000
7200 8000 8192 10000,... special also available
- **Connections**

Connector M23

23C1 : M23 connector, 12 pins clockwise (CW), channel A before B

23C0 : M23 connector, 12 pins clockwise (CW), channel B before A

Junction Box

JBX1: Junction Box, channel A before B **JBX0**: Junction Box, channel B before A

Other connections upon request
- **Option(s)**

Electronic

2 => TTL 5v RS422

5=> HTL 11-30v Push-Pull

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

Connections

Channel A before B

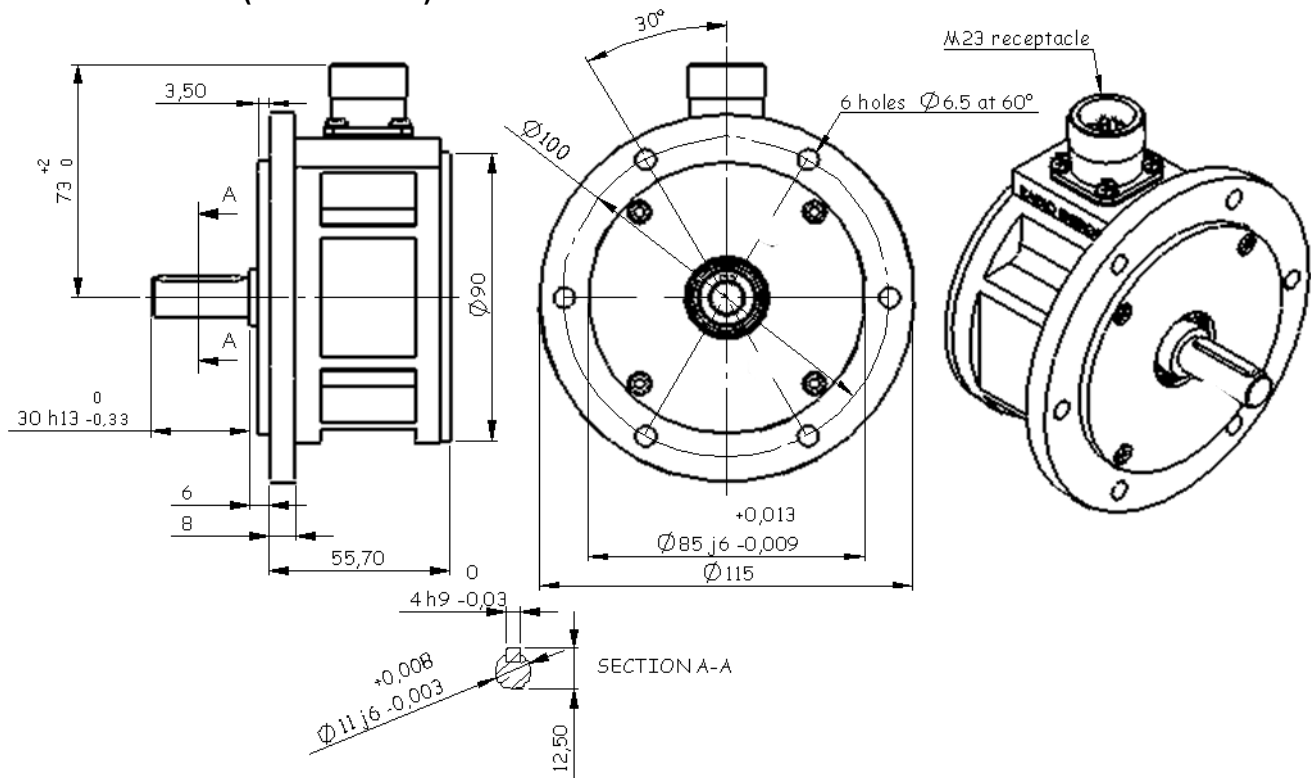
	Cable UL – 8 wires	M23 - CW	Junction box	Output waveforms
Description	CB	23C1	JBX1	
A	GN - Green	3	3	
A /	PK - Pink	6	6	
B	YE - Yellow	4	4	
B /	BU - Blue	7	7	
Z	GY - Grey	5	5	
Z /	RD - Red	8	8	
Vcc (+)	BN - Brown	2	2	
Gnd (-)	WH - White	1	1	
Ground case	PE	Base	PE	

Channel B before A

	Cable UL – 8 wires	M23 - CW	Junction box	Output waveforms
Description	CB	23C0	JBX0	
A	GN - Green	3	3	
A /	PK - Pink	6	6	
B	YE - Yellow	4	4	
B /	BU - Blue	7	7	
Z	GY - Grey	5	5	
Z /	RD - Red	8	8	
Vcc (+)	BN - Brown	2	2	
Gnd (-)	WH - White	1	1	
Ground case	PE	Base	PE	

Outline drawings

M23 CONNECTOR (23C1 / 23C0)



JUNCTION BOX (JBX1 / JBX0)

