

## Incremental Optical Encoder and centrifugal switch with RE0 444 Tacho Flange

PRECILEC designed these combinations to supply incremental speed signals and carry out a switching operation at a preset speed limit.

These combinations consist of an incremental encoder associated with a mechanical centrifugal switch.

The centrifugal switch is directly mounted on the rear shaft of the encoder.

Particularly well protect against weathers effects and very compact our RCI/RCC 444R FS can be use in many applications (rail mounted gantry crane, floating crane .....)

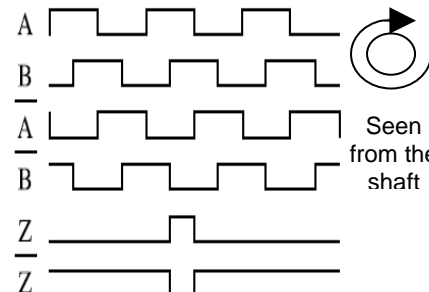
### Main features

- Shaft type Full shaft Ø11 mm (made in stainless steel)
- Housing diameter 90 mm
- Fixation Standard RE0 444 flange
- Body Aluminium
- Protection IP 65 (IEC 60529)
- Max shock 30 g, 11 ms (IEC 68-2-27) (encoder limitation)
- Max continuous speed 3 000 min<sup>-1</sup> (switching speed limitation)
- Operating T° range - 25°C / + 85°C (encoder limitation)
- Moment of inertia 330g cm<sup>2</sup>

### Encoder Electrical characteristics

- Supply voltage 4,5 to 30 Vdc
- Pulses per turn 1024 or 2048 only
- 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 per channel
- EMC According to EN 61000-6-2 and EN 61000-6-4

### Encoder Connections

	Junction box	Output waveforms
A	3	
A /	6	
B	4	
B /	7	
Z	5	
Z /	8	
Vcc (+)	2	
Gnd (-)	1	
Ground case		

### Centrifugal switch characteristics

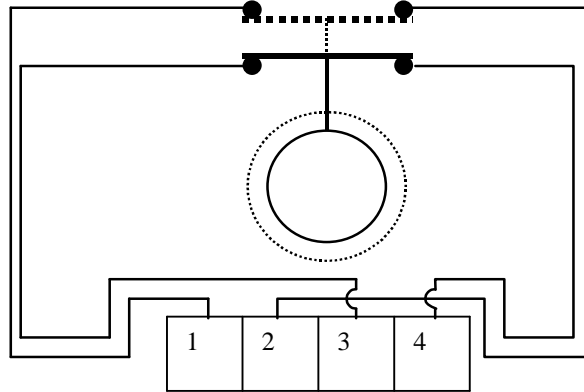
- Principle Centrifugal force
- Type of contact Opened or closed
- Rate breaking capacity 5A / 220V ~
- Maximum breaking capacity 15A / 220V ~
- Maximum breaking sequence 4/min
- Breaking accuracy min<sup>-1</sup> ±5%



# RCI/RCC 444R FS



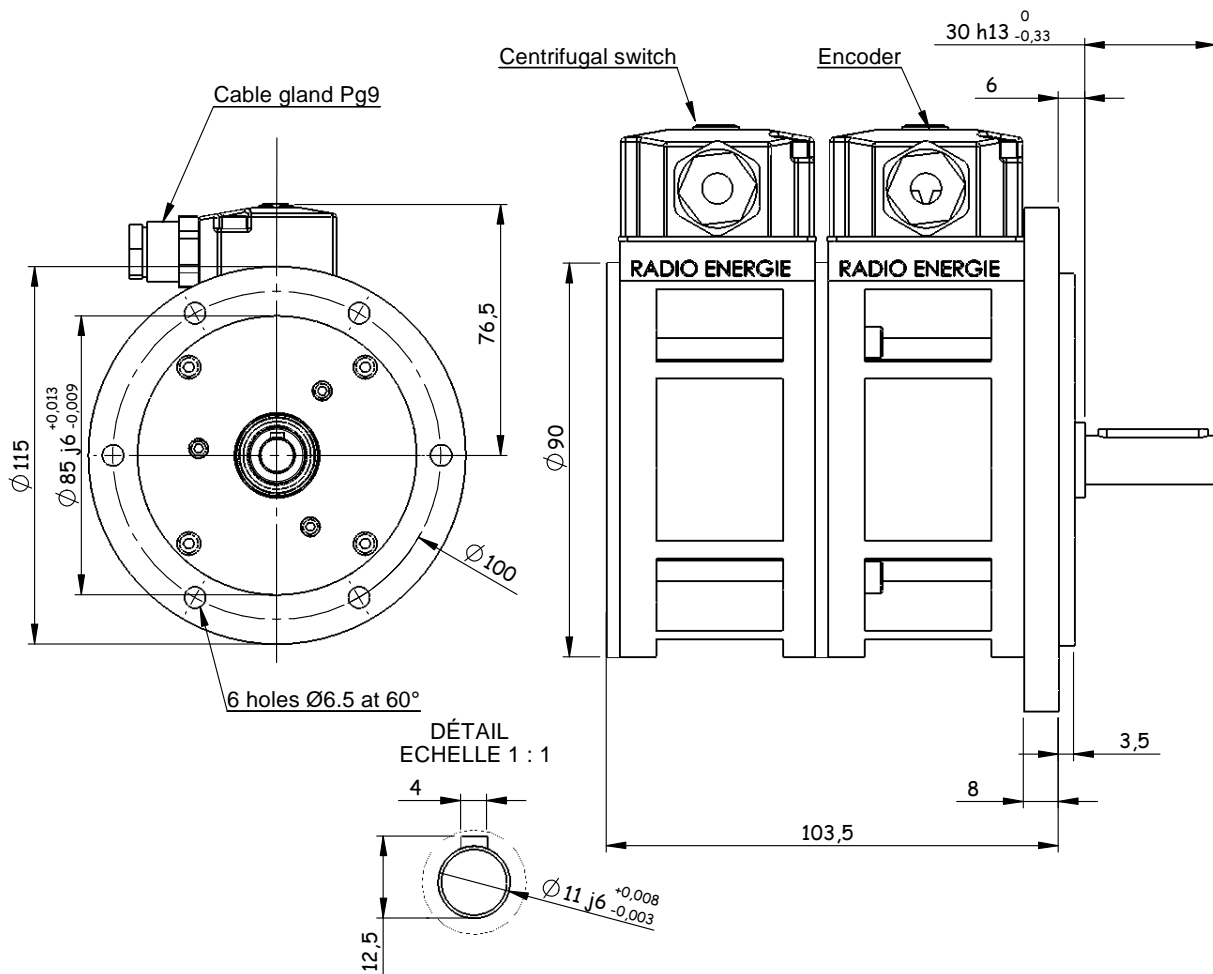
## Centrifugal switch connections



**View in « rest » position**

1 and 2: contact above triggering threshold.  
 3 and 4: contact below triggering threshold

## Outline drawings



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