



## E320/E321 - E320/321V Miniature Incremental Rotary Encoders

The compact-sized encoders series E320 can be supplied both in the bidirectional version (E320) and in the bidirectional type with zero reference pulse (E321), with a number of pulses per revolution ranging from 2 to 1024. The encoder body diameter measures 38 mm, while the shaft diameter is 6 mm. The case is out of ABS plastics, with radial cable outlet. The output signals can be provided in different formats: NPN open collector, NPN pull-up collector, push-pull or line-driver.



At present the encoders series E320 are mainly supplied as spare parts for accomplished applications, while for new projects it is preferably proposed the encoder series E40, with body diameter 40 mm, which will gradually take the place of E320.

- Voltage supply      **E320/E320V** 10/24 or 5 Vdc – for 1000 ppr and over: 10/15 or 24 or 5 Vdc  
                               **E321/E321V** 10/24 or 5 Vdc up to 180 ppr – from 200 ppr 10/15 or 5 or 24 Vdc
- Absorption            **E320/E320V** 30 mA up to 500 ppr - from 1000 ppr 80 mA  
                               **E321/E321V** 30 mA up to 180 ppr - from 200 ppr 80 mA
- Max counting frequency 100 KHz
- Electronic output: open collector NPN or PNP, pull-up resistor NPN, Push-Pull, 5V line driver (supply 5 or 10/24 Vdc), 10/24V line driver (supply 10/24Vdc)
- Protection against short circuit
- Radial cable outlet, cable length 1 m
- Shaft diameter 6 mm
- Protection degree IP53

**Series E320/321:**  
 Round flange 38 mm diameter  
 4 holes M3 on 30 mm diameter

**Series E320V/321V:**  
 Round flange 38 mm diameter  
 screw fixing M18 x 1

### ■ Without zero pulse: E320 - E320V

#### **Number of pulses per revolution**

2, 5, 10, 20, 25, 30, 40, 50, 60, 80, 100,  
 115, 125, 127, 150, 180, 200, 250, 360  
 400, 500, 1000, 1024

### ■ With zero pulse: E321 - E321V

#### **Number of pulses per revolution**

5, 10, 20, 25, 30, 40, 50, 60, 80, 100, 115, 125,  
 127, 150, 180, 200, 250, 360  
 400, 500

### ■ Fittings

Joint BBS0606 hole 6-6 mm, outside Ø 19 mm, length 20 mm  
 Fixing flange type FLG50

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