

Rotary Encoder EC204



Optical rotary encoder for quick and simple adjustment of digital values.

- Mounting height 9,6 mm only.
- For direct soldering in printed circuits.
- 20 pulses per revolution.
- Optional with or without detent mechanism.
- Low wear through electronic impulse generation.
- Recognition of rotation sense via two output signals.

1.0 Construction

1.1 Function	Optical rotary encoder with and without rest
1.2 Distribution over 360°	20
1.3 Detent angle	18°
1.3 Contacts	Soldering pins or soldering contacts
1.4 Mounting at the front panel	Central mounting

2.0 Electrical Data

2.1 Nominal voltage	5 V-
2.2 Input current max.	20 mA
2.3 Frequency max.	100 Hz
2.4 Life expectancy	without detent mechanism 2 x 10 ⁶ revolutions with detent mechanism 1 x 10 ⁶ revolutions
2.5 Output signal	high ≤ +4 V rectangular low ≤ +0,5 V
2.6 Impulse per output	20, 50, 100 or 200

3.0 Mechanical Data

3.1 Impulse generation	Optical
3.2 Operating torque	≥ 0,5 Ncm
3.3 Fly-wheel effect	0,023 Ncm ²
3.4 Dust protection	Sealed wafers

4.0 Other Data

4.1 Ambient temperature	0 to +60°C
4.2 Storage temperature	-20 to +80°C
4.3 Soldering time and temperature	5 s to 260°C

Ordering Codes

Designation of type	EC 204
1. Detent graduations	20
2. Shaft length from seat	20 mm = standard
3. Shaft design	A = standard
4. Detent mechanism	R = with, O = without
5. Contacts	P = pins for printed circuits L = soldering contacts

