G20E Series

Ring Type Rotary Encoder

RoHS
COMPLIANCE

Feature

1. 20mm size low-profile thin rotary encoder (incremental type) for microscopic current circuits used in electronic equipment.
2. Ring type rotary encoder
3. Incremental type.

G20E Series Ring Type Rotary Encoder

Electrical characteristics

- Rating..... DC 5V 10mA
- Resolution..... 20 pulses/360°for each phase
- Chattering..... T1, T3<3 ms
- Sliding noise(Bounce)..... t<2ms
- Sliding noise..... 3.5V min
- Phase difference..... T1,T3>3ms
- Insulation resistance..... Between individual terminals and bushing: 100 MΩ min.
- Dielectric strength..... 100V A.C, 1 minute min

Mechanical characteristics

- Total rotational angle..... 360° (Endless)
- Decent torque..... 81.6 ± 40.8gf.cm(8 ± 4mN・m)
- Number and position of detent..... 20 detents (interval 18° ± 4°)
- Terminal strength..... 5N, 1 minute min
- Push-pull strength ..... 10N 10 seconds
- Play in rotational wobble..... 5° MAX

Durability

- Rotational life..... 50,000 cycles

Environmental characteristics

- Cold..... -20 ± 2°C, 96 Hours
- Dry Heat..... -85 ± 2°C, 96 Hours
- Damp Heat..... 40 ± 2°C, humidity 90% to 95% for 96 Hours
- Vibration..... 10Hz to 55Hz and return to 10Hz, 2 Hours in each 3 axes
- Storage temperature range..... -20°C to + 70°C
- Operating temperature range..... -10°C to + 60°C

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HOW TO ORDER

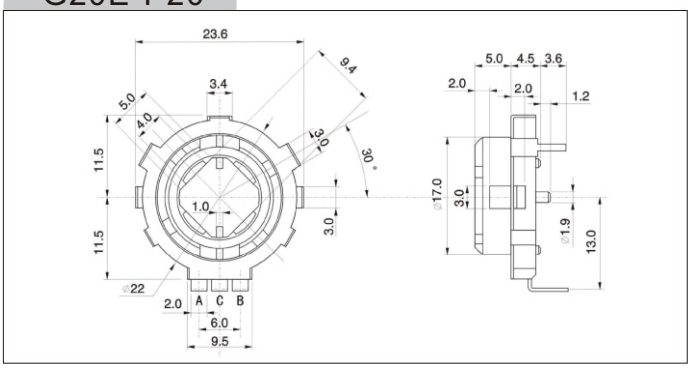
G20E-	P20

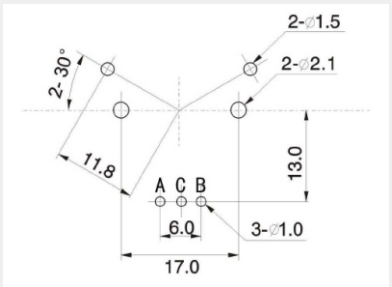
Model Series

Code	Pulses
P20	20 Pulses

Shaft rotational direction	Signal	The broken line shows detent position
C.W.	A (Terminal A-C)	OFF / ON
	B (Terminal B-C)	OFF / ON
C.C.W	A (Terminal A-C)	OFF / ON
	B (Terminal B-C)	OFF / ON

G20E-P20





Encode