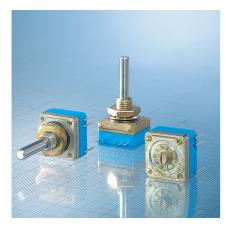
Rotary Encoder BG17



Rotary pulse generator for quick and simple adjustment of digital values.

- Dimensions like miniature code switch SC17.
- Rotary encoders, code switches and rotary step switches can be easily used alongside each other as their dimensions are the same.
- Adjustment forward and backward.
- Digit-exact precision adjustment by precise mechanical detent.
- Recognition of rotation sense by two separate outputs.
- Complete immersion in ultrasonic bath possible.
- Insensitive against aggressive atmosphere, dust etc.
- Shaft parallel or rectangular to PC board.

1.0 Construction 1.1 Function Rotary encoder with detent mechanism 1.2 Detent angle 22°30′ 1.3 Detent graduation 16 detents per revolution 1.4 Indication of revolution direction* 2 independent outputs 1.5 Contacts Soldering pins 1.6 Mounting Soldering or central mounting

* See impulse diagram.

2.0 Electrical Data

2.1 Swite	ching power		3VA/W max.	5 · 10 - 7 W min.	
2.2 Swite	ching voltage	9	30 V≃ max.	10 mV≃ min.	
2.3 Switching current			100 mA max.	50µA min.	
2.4 Rest current max. at ∂u 20°C			0,5A		
2.5 Test voltage at 50 Hz			100 V		
2.6 Life expectancy		without electrical load	≥1,6x10 ⁶ det	ents	
			≥100000 cyc	les	
		with power max.	≥640000 det	ents	
			≥ 40000 cyc	les	
2.7 Conta	Contact esistance	initial value	≤100 mΩ		
resis		after life expectancy	≤200 mΩ		
2.8 Insula	8 Insulation resistance				
2.9 <u>Capa</u>	.9 Capacity between 2 contacts				
Capa	Capacity between contact and ground				

3.0 Mechanical Data

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3.1 Detent mechanism	Mechanical
3.2 Operating torque	1,4 Ncm
3.3 Vibratory strength	10 g
3.4 Shock strength	50 g
3.5 Waterproofing	Watertight against front panel up to 0,2 bar
3.6 Cleaning*	Complete immersion in ultrasonic bath

* With the known agents as Freon, Arklone etc. Without washtight on request.

4.0 Other Data

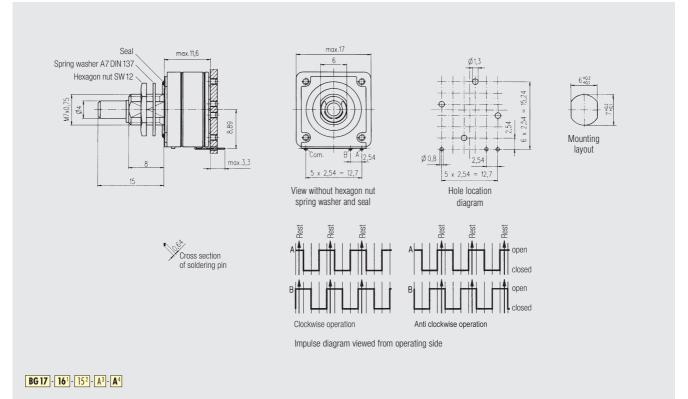
4.1 Contact material	Au
4.2 Insulating material	Polybutylentherephthalate, PBTP
4.3 Soldering time and temperature max.	5s at 260°C

Orderina Codes

Ordening Codes			
Designation of type	BG 17		
1. Detent graduations	16 per revolution		
2. Shaft length	in mm		
3. Shaft design	A = smooth shaft, standard		
4. Contact directions	$\mathbf{A} = axial, \mathbf{R} = radial$		

The bold-typed data in the yellow order blocks remain unchanged. Normal-typed data match the drawings and can be modified according to your wishes. Blanks need to be completed according to the ordering details on the previous page.

Dimensional Drawings · Dimensions in mm



BG17 · Axial

