

Rotary Encoder BGE 28



Electronic rotary pulse encoder for applications in extreme conditions

- long durability due to double ball bearing shaft
- IP65 protection class - completely enclosed housing with die cast cable
- solvent resistant
- minimal frictional torque in IP65 code 65 through shaft sealing
- quadrature signals (AB track signals) with open collector outputs for direct connection to SPS control units - also for small switching loaders.

1.0 Construction

1.1 Function	Magnetic rotary encoder without rest
1.2 Angle resolution	32 lines per track A and B per rotation
1.3 Indicator of resolution direction	via 2 AB track signals (AB)
1.4 Electrical connection	Cable connection with 400mm cable with customized connector on request

2.0 Electrical Data

2.1 Switching voltage	5 VDC $\pm 10\%$
2.2 Input current max.	<20 mA
2.3 Output signal	Open collector up to 30 V, short circuit proof low < 0,5V max. 5 mA per output

3.0 Mechanical Data

3.1 Max. revolution	max. 1.000 min ⁻¹
3.2 Life expectancy	> 30 million revolutions
3.3 Frontside seal	With Vitin sealing ring (IP65)
3.4 Backside seal	Totally encapsulated
3.5 Mounting	Central mount M10 x 0,75
3.6 Shaft length	25 mm
3.7 Shaft diameter	6 mm
3.8 Fastening torque max.	5 Nm

4.0 Other Data

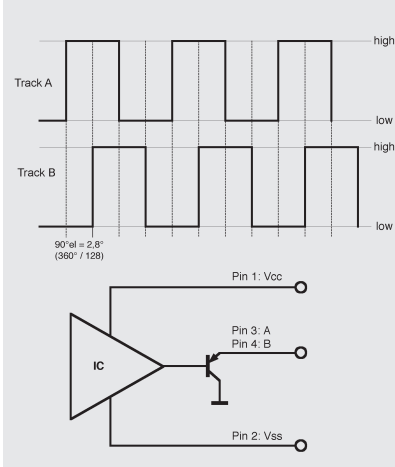
4.1 Ambient temperature	0 to 70°C
4.2 Storage temperature	-40 to 125°C
4.3 Vibration resistance acc. IEC 68-2-6	10 to 150 Hz; 5 g, 5 cycles, 1 octave/minute
4.4 Shock test DIN EN 60 068-2-27	
4.5 Protection class acc. to IEC 529	IP 65

Ordering Codes

Designation of type	BGE 28
1. Resolution	32 = 32 Lines (other resolutions optional)
2. Output	AB = Quadrature, DI = Direction and pulses
3. Shaft length	A = standard 25mm

Function and block diagram

A before B when turning anti clockwise (view of shaft)



Dimensional Drawings · Dimensions in mm

