

Miniature : Incremental Rotary Position Sensor

RotaCol® miniature type incremental contactless rotary position sensors range are available in plastic and metal housing with 12mm housing diameter in bush and no shaft flange version. Bushing size of 3/8" X 32 TPI with shaft diameters of 6 mm and 1/4" are available. Bushing has sleeve bearing. In No Shaft Flange magnet holders can be provided. It has no bearings. Magnet can also be glued on user shaft directly without using magnet holder. It is provided with mounting ring. In case of the incremental interface, A and B are quadrature signals, shifted by 90° and signal Z is a reference mark. The width of Z pulse is 1/4th of quadrature signal period and is match with A and B high. One revolution generates N pulses of signal A or B. The reference mark signal is produced once per revolution. RotaCol series provides an absolute sensor information by counting the number of pulses which matches with the actual absolute angle. Any number of pulses per revolution from 2 to 128, 256, 512, 1024 ppr are programmable. Maximum number of pulses are now 1024 ppr (default).

131 M/Z MCB

Bush Mount : 12 mm Ø *MiniLine* Incremental Rotary Position Sensor



Interconnection : terminal block

Link for Datasheet :
www.rotacol.info/131mcb.pdf
www.rotacol.info/131zmcmb.pdf

- 12 mm Ø metal housing
- Precision Miniature bushing mount
- Low cost , Hall effect technology
- Bushing : 3/8" X 32 UNEF
- Shaft diameter :
 Metric : 6mm (MVCB)
 Inch : 1/4" (ZMCB)
- Compact size, long life
- Sleeve bearing
- Interconnection : terminal block

| Type | 131 M/Z MCB |
|-------------------|--------------------|
| Electrical pulses | 1024 ppr |
| Electrical angle | 360° |
| Supply voltage | 3.3V ; 5V ± 10% |
| Output signal | 3.3V TTL; 5V TTL |
| Resolution steps | 4096 (12 bit) |
| Elec. speed (max) | 1600 rpm |
| Rotary Life | ~ 5 mil. rotations |

131 MCK

No Shaft Flange : 12 mm Ø *MiniLine* Incremental Rotary Position Sensor



Magnet holder
 Interconnection : Terminal block

Link for Datasheet :
www.rotacol.info/131mck.pdf

- 12mm Ø plastic housing
- Miniature type
- Contactless Hall effect technology
- Magnet on user shaft
- No bearings
- Blind hole diameter : 9.5mm Ø
- No wear, long life
- Interconnection : Terminal block

| Type | 131 MCK |
|-------------------|--------------------|
| Electrical pulses | 1024 ppr standard |
| Supply voltage | 3.3V DC ; 5V±10% |
| Output signal | 3.3V TTL 5V TTL |
| Resolution steps | 4096 (12 bit) |
| Elec.speed (max) | 1600 rpm |