

No Shaft Flange : Incremental Rotary Position Sensor

RotaCol® incremental No Shaft Flange position sensor has no shaft. No Shaft Flange are available in two types of mounting flanges : with round hole and flange with oblong holes. As there is no shaft, no wear hence these are long life sensors. Magnet holders of different shaft diameters are available: 6mm, 8mm, 1/4" and 1/8" can be provided on request. It has no bearings. Magnet can also be glued on user shaft directly without using magnet holder. One revolution generates N pulses of signal A or B. The reference mark signal is produced once per revolution. Absolute sensor information is provided 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).

22I ERCK

No Shaft Flange : 22 mm Ø *Ecoline* Incremental Rotary Position Sensor



Interconnection : flat cable

[Link for Datasheet :](http://www.rotacol.info/22ierck.pdf)
www.rotacol.info/22ierck.pdf

- 22mm Ø plastic housing
- Contactless Hall effect technology
- Magnet on user shaft
- No bearings
- Blind hole diameter : 13mm Ø
- No wear, long life
- Interconnection :
5 core flat cable 0.15mtr long

Type	22I ERCK
Electrical pulses	Any pulse from 2 to 128, 256, 512, 1024 ppr (1024 ppr. std)
Supply voltage	5V±10% / 9-30 VDC
Output signal	5V TTL; 5V/24V Open collector
Resolution Steps	4096 (12 bit)
Elec. speed (max)	1600 rpm

28I ERCK

No Shaft Flange : 28 mm Ø *Ecoline* Incremental Rotary Position Sensor



Interconnection : flat cable

[Link for Datasheet :](http://www.rotacol.info/28ierck.pdf)
www.rotacol.info/28ierck.pdf

- 28mm Ø plastic housing
- Contactless Hall effect technology
- Magnet on user shaft
- No bearings
- Blind hole diameter : 19mm Ø
- No wear, long life
- Interconnection :
5 core flat cable 0.15mtr long

Type	28I ERCK
Electrical pulses	Any pulse from 2 to 128, 256, 512, 1024 ppr (1024 ppr. std)
Supply voltage	5V±10% / 9-30 VDC
Output signal	5V TTL; 5V/24V Open collector
Resolution Steps	4096 (12 bit)

25I RSK

No Shaft Flange : 25 mm Ø *RS Speed Connect* Incremental Rotary Position Sensor



Magnet holder
Interconnection : Terminal block

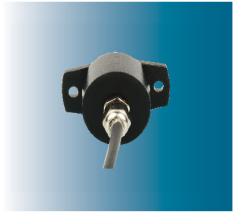
[Link for Datasheet :](http://www.rotacol.info/25irsk.pdf)
www.rotacol.info/25irsk.pdf

- 25mm Ø plastic housing
- Contactless Hall effect technology
- Magnet on user shaft
- No bearings
- Blind hole diameter : 13mm Ø
- No wear, long life
- Interconnection : cable gland (OCG), miniature connector (OCM), terminal block axial (OCTA) / radial (OCTR)

Type	25I RSK
Electrical pulses	Any pulse from 2 to 128, 256, 512, 1024 ppr (1024 ppr. std)
Supply voltage	5V±10% / 9-30 VDC
Output signal	5V TTL; 5V/24V Open collector
Resolution Steps	4096 (12 bit)
Elec. speed (max.)	1600 rpm

30I RSK

No Shaft Flange : 30 mm Ø *RS Speed Connect* Incremental Rotary Position Sensor



Magnet holder
Interconnection : Terminal block
Link for Datasheet :
www.rotacol.info/30irsk.pdf

- 30mm Ø plastic housing
- Contactless Hall effect technology
- Magnet on user shaft
- No bearings
- Blind hole diameter : 19mm Ø
- No wear, long life
- Interconnection : cable gland (OCG), miniature connector (OCM), terminal block axial (OCTA) / radial (OCTR)

Type

30I RSK

Electrical pulses	Any pulse from 2 to 128, 256, 512, 1024 ppr (1024 ppr. std)
Supply voltage	5V±10% / 9-30 VDC
Output signal	5V TTL; 5V/24V Open collector
Resolution Steps	4096 (12 bit)
Elec. speed (max.)	1600 rpm

13I MCK

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



Magnet holder
Interconnection : Terminal block
Link for Datasheet :
www.rotacol.info/13imck.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

13I 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

50I DRKH

No Shaft Flange : 50mm Ø *Diamondline* Incremental Rotary Position Sensor



Interconnection : 5 core round cable with rubber grommet 2.5 mtr

Link for Datasheet :
www.rotacol.info/50idrkh.pdf

- 50mm Ø rugged metal housing
- Clamping flange with 2 screws
- Mounting flange (optional)
- Two ball bearings
- 360° Mechanical & electrical angle
- Can accommodate 8mm Ø shaft diameter
- Heavy duty applications
- Interconnection : 5 core round cable 2.5 mtr long with rubber grommet

Type

50I DRKH

Electrical pulses	Any pulse from 2 to 128, 256, 512, 1024 ppr (1024 ppr. std)
Supply voltage	5V ± 10% / 8 - 24 VDC
Output signal	5V TTL, 5V / 24V Open collector, Line driver, High line driver
Mech Speed (max)	5000 rpm
Elec. Speed (max)	1600 rpm
Life (rotations)	~ 75 million