

## No Shaft Flange : Analog Rotary Position Sensor

RotaCol® No Shaft Flange position sensor are available in plastic and metal housing with 12, 22, 25, 28, 30 & 50mm Ø housing diameters. These are available in two types of flange mountings with round hole and flange with oblong holes. As there is no shaft no wear hence these are long life sensors. Magnet holders can be provided on request. It has no bearings. Magnet can also be glued on user shaft directly without using magnet holder. Magnet holders are available for different shaft diameters: 6mm, 8mm, 1/4" and 1/8". At the output of sensor a variable analog voltage or variable current is provided proportionally to the position of shaft / axis over a complete angle range of 360° or a subrange. Analog Outputs of 0-5V ratiometric, 0-5V, 0-10V, 4-20mA, 0-20mA are available.

### 22A ERCK

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



Magnet holder  
Interconnection : flat cable

[Link for Datasheet :](http://www.rotacol.info/22aerck.pdf)  
[www.rotacol.info/22aerck.pdf](http://www.rotacol.info/22aerck.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 : 3 core flat cable 0.15 mtr long

Type	22A ERCK
Electrical angle	0-20° to 0-360° in 1°step prog. (standard 360°)
Supply Voltage	5V±10% / 9-30 VDC / 15-30 VDC
Output signal	0-5V ratiometric; 0-5V / 0-5V 2C; 0-10V / 0-10V 2C 0-20mA ; 4-20mA
Resolution Steps	4096 (12 bit)
Elec. speed (max)	160 (std) / 800 rpm (option)

### 28A ERCK

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



Magnet holder  
Interconnection : flat cable

[Link for Datasheet :](http://www.rotacol.info/28aerck.pdf)  
[www.rotacol.info/28aerck.pdf](http://www.rotacol.info/28aerck.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 : 3 core flat cable 0.15 mtr long

Type	28A ERCK
Electrical angle	0-20° to 0-360° in 1°step prog. (standard 360°)
Supply Voltage	5V±10% / 9-30 VDC / 15-30 VDC
Output signal	0-5V ratiometric; 0-5V / 0-5V 2C; 0-10V / 0-10V 2C 0-20mA ; 4-20mA
Resolution Steps	4096 (12 bit)
Elec. speed (max)	160 (std) / 800 rpm (option)

### 25A RSK

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



Interconnection - Cable gland

[Link for Datasheet :](http://www.rotacol.info/25arsk.pdf)  
[www.rotacol.info/25arsk.pdf](http://www.rotacol.info/25arsk.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	25A RSK
Electrical angle	0-20° to 0-360° in 1°step prog. (standard 360°)
Supply voltage	5V±10% / 9-30 VDC / 15-30 VDC
Output signal	0-5V ratiometric; 0-5V / 0-5V 2C; 0-10V / 0-10V 2C 0-20mA ; 4-20mA
Resolution	4096 steps (12 bit)
Elec. speed (max)	160 rpm (std) / 800 rpm (option)

### 30A RSK

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



Interconnection - Cable gland

[Link for Datasheet :](http://www.rotacol.info/30arsk.pdf)  
[www.rotacol.info/30arsk.pdf](http://www.rotacol.info/30arsk.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	30A RSK
Electrical angle	0-20° to 0-360° in 1°step prog. (standard 360°)
Supply voltage	5V±10% / 9-30 VDC / 15-30 VDC
Output signal	0-5V ratiometric; 0-5V / 0-5V 2C; 0-10V / 0-10V 2C 0-20mA ; 4-20mA
Resolution	4096 steps (12 bit)
Elec. speed (max)	160 rpm (std) / 800 rpm (option)

## 30A LOCK

### No Shaft Flange : 30 mm Ø *LoColine* Analog Rotary Position Sensor



Interconnection -  
Round Cable with rubber  
grommet -OCR

[Link for Datasheet :](http://www.rotacol.info/30alock.pdf)  
[www.rotacol.info/30alock.pdf](http://www.rotacol.info/30alock.pdf)

- 30mm Ø plastic housing
- Shaftless flange
- Contactless Hall effect technology
- Magnet on user shaft
- No bearings
- No wear, long life
- Very economical
- Interconnection : 3 core round cable

#### Type **30A LOCK**

Electrical angle	0-20° to 0-360° in 1°step prog. (std 360°)
Supply voltage	5V±10%
Output signal	0-5V ratiometric; Single channel
Resolution Steps	4096 (12 bit)
Elec. speed (max.)	160 rpm

## 13A MCK

### No Shaft flange : 12mm Ø *Miniline* Analog Rotary Position Sensor



Interconnection -  
Terminal block

[Link for Datasheet :](http://www.rotacol.info/13amck.pdf)  
[www.rotacol.info/13amck.pdf](http://www.rotacol.info/13amck.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 **13A MCK**

Electrical angle	0-20° to 0-360° in 1°step prog. (std 360°)
Supply voltage	5V±10%
Output signal	0-5V ratiometric; Single channel
Resolution steps	4096 (12 bit)
Elec.speed (max)	160 rpm

## 50A DRCH

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



Interconnection :  
3 core round cable with rub-  
bergrommet 2.5 mtr

[Link for Datasheet :](http://www.rotacol.info/50adrch.pdf)  
[www.rotacol.info/50adrch.pdf](http://www.rotacol.info/50adrch.pdf)

- 50mm Ø rugged metal housing
- Clamping flange with 2 screws
- Mounting flange (optional)
- Two ball bearings
- 360° Mechanical & electrical angle
- Can accomodate 8mm Ø shaft diameter
- Heavy duty applications
- Interconnection : 3 core round cable 2.5 mtr long with rubber grommet

#### Type **50A DRCH**

Electrical angle	0°- 20° to 0° - 360° in 1° steps prog. (std 360°)
Supply Voltage	5V±10% / 9-30VDC/ 15-30 VDC
Output signal	0-5V ratiometric; 0-5V ; 0-10V DC Single/dual channel, 0 -20mA; 4-20mA
Resolution	4096 steps(12 bit)
Mech.Speed (max)	5000 rpm
Elec. Speed (max)	160 rpm (std) / 800 rpm (option)
Life (rotations)	~ 75 million