

## No Shaft Flange : PWM Rotary Position Sensor

RotaCol® No Shaft Flange position sensors are available in plastic and metal housing with 12,22, 25, 28, 30 & 50mm housing diameters. There are two types of mounting flanges with round holes and kit 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" PWM as output is pulse width modulated signal based on constant carrier frequency which defines high to low ratio. The ratio between high & low corresponds to the signal characteristics. Within one period of this frequency the change in duty cycle indicates the angle. It is in a fixed relation to the angle. With supply voltage of 5V±10% output signal of PWM is provided. Single channel and dual channel PWM outputs are available.

### 22W ERCK

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



Interconnection - Flat cable

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

- 22mm Ø plastic housing
- Contactless Hall effect technology
- Pulse width modulated output
- 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	22W ERCK
Electrical angle	0-20° to 0°-360° in 1°step prog. (standard 360°)
Supply Voltage	5V±10%
Output signal	PWM Single/dual channel
Resolution Steps	4096 (12 bit)
Elec. speed (max)	160 rpm

### 28W ERCK

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



Interconnection - Flat cable

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

- 28mm Ø plastic housing
- Contactless Hall effect technology
- Pulse width modulated output
- 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	28W ERCK
Electrical angle	0-20° to 0°-360° in 1°step prog. (standard 360°)
Supply Voltage	5V±10%
Output signal	PWM Single/dual channel
Resolution Steps	4096 (12 bit)
Elec. speed (max)	160 rpm

### 25W RSK

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



Interconnection - Cable gland

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

- 25mm Ø plastic housing
- Contactless Hall effect technology
- Pulse width modulated output
- 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	25W RSK
Electrical angle	0-20° to 0°-360° in 1°step prog. (standard 360°)
Supply voltage	5V±10%
Output signal	PWM Single / dual channel
Resolution	4096 steps (12 bit)
Elec. speed (max)	160 rpm

## 30W RSK

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



Interconnection - Cable gland

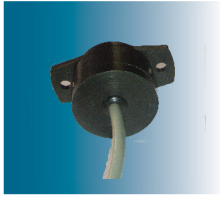
[Link for Datasheet :](http://www.rotacol.info/30wrsk.pdf)  
[www.rotacol.info/30wrsk.pdf](http://www.rotacol.info/30wrsk.pdf)

- 30mm Ø plastic housing
- Contactless Hall effect technology
- Pulse width modulated output
- 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	30W RSK
Electrical angle	0-20° to 0°-360° in 1°step prog. (standard 360°)
Supply voltage	5V±10%
Output signal	PWM Single / dual channel
Resolution	4096 steps (12 bit)
Elec. speed (max)	160 rpm

## 30W LOCK

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



Interconnection - Round Cable with rubber grommet -OCR

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

- 30mm Ø plastic housing
- Contactless Hall effect technology
- Pulse width modulated output
- Magnet on user shaft
- No bearings, no wear, long life
- Blind hole diameter : 19mm Ø
- Very economical
- Interconnection : 3 core round cable

Type	30W LOCK
Electrical angle	0-20° to 0°-360° in 1°step prog. (standard 360°)
Supply voltage	5V±10%
Output signal	PWM Single channel
Resolution Steps	4096 (12 bit)
Elec. speed (max.)	160 rpm

## 13W MCK

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



Interconnection - Terminal block

[Link for Datasheet :](http://www.rotacol.info/13wmck.pdf)  
[www.rotacol.info/13wmck.pdf](http://www.rotacol.info/13wmck.pdf)

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

Type	13W MCK
Electrical angle	0-20° to 0°-360° in 1°step prog. (standard 360°)
Supply voltage	5V±10%
Output signal	PWM Single channel
Resolution steps	4096 (12 bit)
Elec.speed (max)	160 rpm

## 50W DRCH

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



Interconnection : 3 core round cable with rubber-grommet 2.5 mtr

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

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

Type	50W DRCH
Electrical angle	0°-20° to 0° - 360° in 1° steps prog. (std 360°)
Supply Voltage	5V±10%
Output signal	PWM Single / dual channel
Resolution	4096 steps(12 bit)
Mech. Speed (max.)	5000 rpm
Elec. speed (max)	160 rpm
Life (rotations)	~ 75 million