

Flange Mount : PWM Rotary Position Sensor

RotaCol® flange precision contactless rotary position sensors range are available in plastic and metal housing with 15, 22, 25, 28 & 30 mm \varnothing housing diameter. Shaft diameter of 3mm and 6mm \varnothing are available. Flange version default has low torque. Mechanical angle is 360° without stop as default version. Polymer sleeve bearing or ball bearing versions are available. 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 \pm 10% output signal of PWM is provided. Single channel and dual channel PWM outputs are available.

22W ERCF



Interconnection - Flat cable

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

Flange Mount : 22mm \varnothing *Ecoline* PWM Rotary Position Sensor

- 22mm \varnothing plastic housing
- Hall CMOS technology
- Pulse width modulated output
- Shaft diameter : 6mm \varnothing
- Mechanical angle : 360° without stop
- Stainless steel shaft
- Polymer bearing
- Shock and vibration proof
- Interconnection :
3 core flat cable 0.15 mtr long

Type

22W ERCF

Electrical angle	0° - 20° to 20° - 360° in 1° step prog. (standard 360°)
Supply voltage	5V \pm 10%
Output signal	PWM single/dual channel
Resolution	4096 steps (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	160 rpm
Rotary life	~ 15 mil. rotations

28W ERCF



Interconnection - Flat cable

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

Flange Mount : 28 mm \varnothing *Ecoline* PWM Rotary Position Sensor

- 28mm \varnothing plastic housing
- Hall CMOS technology
- Pulse width modulated output
- Shaft diameter : 6mm \varnothing
- Mechanical angle : 360° without stop
- Stainless steel shaft
- Polymer bearing
- Shock and vibration proof
- Interconnection :
3 core flat cable 0.15 mtr long

Type

28W ERCF

Electrical angle	0° - 20° to 20° - 360° in 1° step prog. (standard 360°)
Supply voltage	5V \pm 10%
Output signal	PWM single/dual channel
Resolution	4096 steps (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	160 rpm
Rotary life	~ 15 mil. rotations

25W RSF



Interconnection -
miniature connector

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

Flange Mount : 25mm \varnothing *RS Speed Connect* PWM Rotary Position Sensor

- 25mm \varnothing plastic housing
- Hall CMOS technology
- Pulse width modulated output
- Shaft diameter : 6mm \varnothing
- Mechanical angle : 360° without stop
- Stainless steel shaft
- polymer bearing
- Shock and vibration proof
- Interconnection : cable gland (OCG),
Miniature push-pull connector (OCM),
terminal block axial (OCTA) / radial
(OCTR)

Type

25W RSF

Electrical angle	0° - 20° to 20° - 360° in 1° step prog. (standard 360°)
Supply voltage	5V \pm 10%
Output signal	PWM single/dual channel
Resolution	4096 steps (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	160 rpm
Rotary life	~ 15 mil. rotations

30W RSF

Flange Mount : 30mm Ø *RS Speed Connect* PWM Rotary Position Sensor



Interconnection -
Terminal block

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

- 30mm Ø plastic housing
- Hall CMOS technology
- Pulse width modulated output
- Shaft diameter : 6mm Ø
- Mechanical angle : 360° without stop
- Stainless steel shaft
- polymer bearing
- Shock and vibration proof
- Interconnection : cable gland (OCG), Miniature push-pull connector (OCM), terminal block axial (OCTA) / radial (OCTR)

Type

30W RSF

Electrical angle	0° - 20° to 20° - 360° in 1° step prog. (standard 360°)
Supply voltage	5V±10%
Output signal	PWM single/dual channel
Resolution	4096 steps (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	160 rpm
Rotary life	~ 15 mil. rotations

30W LOCF

Flange Mount : 30mm Ø *LoColine* PWM Rotary Position Sensor



Interconnection : Round Cable with
rubber grommet -OCR

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

- 30mm Ø plastic housing
- Low cost
- Pulse width modulated output
- Shaft diameter : 6mm Ø
- Mechanical angle : 360° without stop continuous type
- Polymer bearings
- Default version with medium torque
- Interconnection : 3 core round cable

Type

30W LOCF

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)
Mech.speed (max.)	3000 rpm
Elec. speed (max.)	160 rpm
Life (rotations)	~ 15 mil. rotations

15W MCF

Flange Mount : 15mm Ø *Miniline* PWM Rotary Position Sensor



Interconnection :
3 leads multistrand wire 0.15mtr

[Link for Datasheet :](http://www.rotacol.info/15wmcf.pdf)
www.rotacol.info/15wmcf.pdf

- 15mm Ø flange mount
- Miniature size
- Pulse width modulated output
- Metal case, economical
- Contactless rotary position sensor
- Shaft diameter : 3mm Ø
- Ball bearing
- Interconnection : 3 leads multistrand wire 0.15 mtr long

Type

15W MCF

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)
Mech.speed (max)	4000 rpm
Elec.speed (max)	160 rpm
Life (rotations)	~ 15 mil. rotations

22W MCF

Flange Mount : 22mm Ø *Miniline* PWM Rotary Position Sensor



Interconnection :
3 leads multistrand wire 0.15mtr

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

- 22mm Ø Flange mount
- Miniature size
- Pulse width modulated output
- Metal case, economical
- Contactless rotary position sensor
- Shaft diameter : 6mm Ø
- Ball bearing
- Interconnection : 3 leads multistrand wire 0.15 mtr long

Type

22W MCF

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)
Mech.speed (max)	4000 rpm
Elec.speed (max)	160 rpm
Life (rotations)	~ 15 mil. rotations