

Flange Mount : Analog 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 Ø housing diameter. Shaft diameter of 3 mm and 6 mm Ø are available. Flange version default has low torque. Polymer sleeve bearing or ball bearing versions are available. Following Analog Outputs are available: 0-5V ratiometric, 0-5V, 0-10V, 4-20mA, 0-20mA. Dual channel outputs are also available for all voltage outputs. 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.

22A ERCF



Interconnection - Flat cable

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

Flange Mount : 22mm Ø *Ecoline* Analog Rotary Position Sensor

- 22mm Ø plastic housing
- Economical Hall effect magnetic sensor
- 360° continuous rotation
- Shaft diameter : 6mm Ø
- Stainless steel shaft
- Shock and vibration proof
- Polymer bearing
- Interconnection :
3 core flat cable 0.15 mtr long

Type	22A ERCF
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 ; 4-20 mA
Resolution	4096 steps (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	160 rpm (std) / 800 rpm (option)
Rotary life	~ 15 mil. rotations

28A ERCF



Interconnection - Flat cable

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

Flange Mount : 28mm Ø *Ecoline* Analog Rotary Position Sensor

- 28mm Ø plastic housing
- Economical Hall effect magnetic sensor
- 360° continuous rotation
- Shaft diameter : 6mm Ø
- Stainless steel shaft
- Shock and vibration proof
- Polymer bearing
- Interconnection :
3 core flat cable 0.15 mtr long

Type	28A ERCF
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 ; 4-20 mA
Resolution	4096 steps (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	160 rpm (std) / 800 rpm (option)
Rotary life	~ 15 mil. rotations

25A RSF



Interconnection - Flat cable

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

Flange Mount : 25mm Ø *RS Speed Connect* Analog Rotary Position Sensor

- 25mm Ø plastic housing
- Economical Hall effect magnetic sensor
- 360° continuous rotation
- Shaft diameter : 6mm Ø
- Stainless steel shaft
- Shock and vibration proof
- Polymer bearing
- Interconnection : cable gland (OCG), Miniature push-pull connector (OCM), terminal block axial (OCTA) or radial (OCTR)

Type	25A RSF
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 ; 4-20 mA
Resolution	4096 steps (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	160 rpm (std), 800 rpm (option)
Rotary life	~ 15 mil. rotations

30A RSF

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



Interconnection - terminal block

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

- 30mm Ø plastic housing
- Economical Hall effect magnetic sensor
- 360° continuous rotation
- Shaft diameter : 6mm
- Stainless steel shaft
- Shock and vibration proof
- Polymer bearing
- Interconnection : cable gland (OCG), Miniature push-pull connector (OCM), terminal block axial (OCTA) or radial (OCTR)

Type

30A RSF

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 ; 4-20 mA
Resolution	4096 steps (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	160 rpm (std), 800 rpm (option)
Rotary life	~ 15 mil. rotations

30A LOCF

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



Interconnection : Round Cable with rubber grommet -OCR

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

- 30mm Ø flange mount
- Very Economical plastic case
- Contactless rotary Position sensor
- Shaft diameter : 6mm Ø
- Available in 0-5V ratiometric single channel
- Polymer bearing
- Interconnection : 3 core round cable 0.15 mtr long

Type

30A LOCF

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

15A MCF

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



Interconnection : 3 leads multistrand wire 0.15mtr

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

- 15mm Ø Flange mount
- Miniature size
- Metal case, economical
- Contactless rotary Position sensor
- Available in 0-5V ratiometric
- Shaft diameter : 3mm Ø
- Ball bearing
- Interconnection : 3 leads multistrand wire 0.15 mtr long

Type

15A MCF

Electrical angle	0-20° to 0-360° in 1°step prog. (standard 360°)
Supply voltage	5V±10%
Output signal	0-5V ratiometric;Single channel
Resolution steps	4096 (12 bit)
Mech.speed (max)	4000 rpm
Elec.speed (max)	160 rpm
Life (rotations)	~ 15 mil. rotations

22A MCF

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



Interconnection : 3 leads multistrand wire 0.15 mtr long

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

- 22mm Ø Flange mount
- Miniature size
- Metal case, economical
- Contactless rotary Position sensor
- Available in 0-5V ratiometric
- Shaft diameter : 6mm
- Ball bearing
- Interconnection : 3 leads multistrand wire 0.15 mtr long

Type

22A MCF

Electrical angle	0-20° to 0-360° in 1°step prog. (standard 360°)
Supply voltage	5V±10%
Output signal	0-5V ratiometric;Single channel; 0-5V,0-10V; 4-20mA
Resolution steps	4096 (12 bit)
Mech.speed (max)	4000 rpm
Elec.speed (max)	160 rpm
Life (rotations)	~ 15 mil. rotations