

Bush Mount : Analog Rotary Position Sensor

RotaCol® bushing contactless rotary position sensors range are available in plastic and metal housings with 12, 22, 25, 28 & 30 mm housing diameter. Bushing size : M6X0.75 / M9X0.75 / M10X0.75 / 3/8"X32 UNEF / 1/4"X32UNEF with shaft diameters of 3mm, 6mm, 1/4" and 1/8" are available. Bushing has brass sleeve bearing, polymer sleeve bearing or ball bearing. Mechanical angle is 360° without stop as default version. Enstops at 320°, 270°, 180° and 90° are also available. The standard torque offered is medium torque. High and low torque are also available as an option. Supply voltages of 5VDC ± 10% ; 9 - 30 VDC & 15 - 30 VDC and output signals of 0 - 5VDC (ratiometric) ; 0 - 5VDC ; 0 - 10VDC ; 0 - 20 mA & 4 - 20 mA are provided. Dual channel outputs are also available for all voltage outputs. At the output of the sensor a variable voltage is provided proportional to the position of the shaft / axis over a complete angle range of 360 ° or a subrange. The contactless sensor electronic guarantees a steady signal level and a very low linearity error of 0.3%.

22A ERCB



Interconnection - Flat cable

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

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

- 22mm Ø plastic housing
- Hall CMOS technology
- Analog Current / voltage output
- Bushing : M10X0.75 / M9X0.75 / 3/8"X32UNEF
- Shaft diameter : 6mm or 1/4"
- Mechanical angle : 360° without stop (O) 90°/180°/270°/320° with stop (S)
- Stainless steel shaft
- Brass sleeve bearing; polymer bearing (optional)
- Shock and vibration proof
- Interconnection : 3 core flat cable 0.15 mtr long

Type	22A ERCB
Electrical angle	0 - 20° to 0 - 360° in 1°step prog. (std 360°)
Supply voltage	5V±10% / 9-30 VDC / 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)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	160 rpm (std) / 800 rpm (optional)
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

28A ERCB



Interconnection - Flat cable

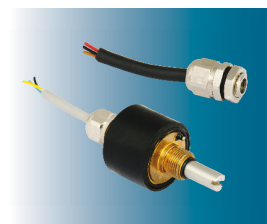
[Link for Datasheet :](http://www.rotacol.info/28aercb.pdf)
www.rotacol.info/28aercb.pdf

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

- 28mm Ø plastic housing
- Analog Current / voltage output
- Bushing : M10X0.75 / M9X0.75 / 3/8"X32UNEF
- Shaft diameter : 6mm or 1/4"
- Mechanical angle : 360° without stop (O) 90°/180°/270°/320° with stop (S)
- Stainless steel shaft
- Brass sleeve bearing; polymer bearing (optional)
- Shock and vibration proof
- Interconnection : 3 core flat cable 0.15 mtr long

Type	28A ERCB
Electrical angle	0 - 20° to 0 - 360° in 1°step prog. (std 360°)
Supply voltage	5V±10% / 9-30 VDC / 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)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	160 rpm (std) / 800 rpm (optional)
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

25A RSB



Interconnection - Cable gland

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

Bush Mount : 25mm Ø *RS SPEED CONNECT* Analog Rotary Position Sensor

- 25mm Ø plastic housing
- Analog Current / voltage output
- Bushing : M10X0.75 / M9X0.75 / 3/8"X32UNEF
- Shaft diameter : 6mm or 1/4"
- Mechanical angle : 360° without stop (O) 90°/180°/270°/320° with stop (S)
- Stainless steel shaft
- Brass sleeve bearing; polymer bearing (optional)
- Shock and vibration proof
- Interconnection : cable gland (OCG), Miniature push-pull connector (OCM), terminal block axial (OCTA) / radial (OCTR)

Type	25A RSB
Electrical angle	0 - 20° to 0 - 360° in 1°step prog. (std 360°)
Supply voltage	5V±10% / 9-30 VDC / 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)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	160 rpm (std) / 800 rpm (optional)
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

30A RSB

Bush Mount : 30mm Ø *RS SPEED CONNECT* Analog Rotary Position Sensor



Interconnection - Miniature connector

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

- 30mm Ø plastic housing
- Analog Current / voltage output
- Bushing : M10X0.75 / M9X0.75 / 3/8"X32UNEF
- Shaft diameter : 6mm or 1/4"
- Mechanical angle : 360° without stop (O) 90°/180°/270°/320° with stop (S)
- Stainless steel shaft
- Brass sleeve bearing; polymer bearing (optional)
- Shock and vibration proof
- Interconnection : cable gland (OCG), Miniature push-pull connector (OCM), terminal block axial (OCTA) / radial (OCTR)

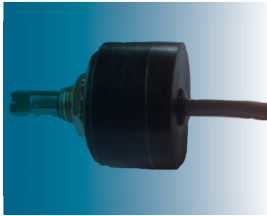
Type

30A RSB

Electrical angle	0 - 20° to 0 - 360° in 1°step prog. (std 360°)
Supply voltage	5V±10% / 9-30 VDC / 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)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	160 rpm (std) / 800 rpm (optional)
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

30A LOCB

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



Interconnection : Round Cable with rubber grommet -OCR

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

- 30mm Ø plastic housing
- Low cost
- Bushing size : M10X0.75 / 3/8"X32UNEF
- Shaft diameter : 6mm or 1/4" Ø
- Mechanical angle : 360° without stop continuous
- Brass Sleeve bearings
- Default version with medium torque
- IP 65 (on request)
- Interconnection : 3 core round cable 0.15 mtr long

Type

30A LOCB

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 step (12 bit)
Mech.speed (max)	800 rpm
Elec. speed (max)	160 rpm
Life (rotations)	~ 10 mil. rotations

22A LOCB

Bush Mount : 22mm Ø *LoColine* Analog Rotary Position Sensor



Interconnection : 3 leads multistrand wire

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

- 22mm Ø plastic housing
- Low cost
- Bushing size : M9X0.75
- Shaft diameter : 6mm Ø
- Mechanical angle : without stop 360° continuous rotation
- Brass Sleeve bearings
- Default version with medium torque
- IP 65 (on request)
- Interconnection : 3 leads multistrand wire 0.15 mtr long

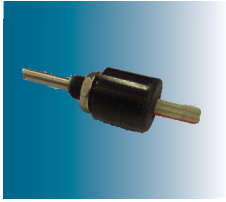
Type

22A LOCB

Electrical angle	0 - 20° to 0 - 360° in 1°step prog. (std 360°)
Supply voltage	5V±10% / 9-30V DC/ 15-30V DC
Output signal	0-5V ratiometric; Single channel 0-5V; 0-10V; 4-20mA
Resolution Steps	4096 step (12 bit)
Mech.speed (max)	800 rpm
Elec. speed (max)	160 rpm
Life (rotations)	~ 10 mil. rotations

12A M/Z MCB

Bush Mount : 12 mm Ø *Miniline* Analog Rotary Position Sensor



Interconnection : Flat cable

Link for Datasheet :
www.rotacol.info/12ammcb.pdf
www.rotacol.info/12azmcb.pdf

- 12 mm Ø metal housing
- Precision Miniature bushing mount
- Low cost , Hall effect technology
- Bushing :
 Metric : M6 X 0.75 (MMCB)
 Inch : 1/4" X 32 UNEF (ZMCB)
- Shaft diameter :
 Metric : 3mm (MMCB)
 Inch : 1/8" (ZMCB)
- Sleeve bearing
- Interconnection : 3 core flat cable 0.15 mtr long

Type	12A M/Z MCB
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)
Mech.speed (max)	800 rpm
Elec. speed (max)	160 rpm
Life (rotations)	~ 5 mil. rotations

13A M/Z MCB

Bush Mount : 12 mm Ø *Miniline* Analog Rotary Position Sensor



Interconnection :
Terminal block

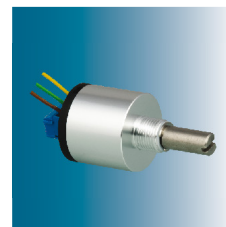
Link for Datasheet :
www.rotacol.info/13ammcb.pdf
www.rotacol.info/13azmcb.pdf

- 12 mm Ø metal housing
- Precision Miniature bushing mount
- Low cost , Hall effect technology
- Bushing : 3/8" X 32 UNEF
- Shaft diameter :
 Metric 6mm (MMCB)
 Inch 1/4" (ZMCB)
- Compact size, long life
- Sleeve bearing
- Interconnection : terminal block

Type	13A M/Z MCB
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
Life (rotations)	~ 5 mil. rotations

22A M/Z SL RCB

Bush Mount : 22 mm Ø *Silverline* Analog Rotary Position Sensor



Interconnection :
Terminal block

Link for Datasheet :
www.rotacol.info/22amslrcb.pdf
www.rotacol.info/22azslrcb.pdf

- Economical Hall effect magnetic sensor
- Robust metal aluminium housing with sleeve bearing (RCB)
- Bush mounting -
 Metric M10 X 0.75 (MSL)
 Inch 3/8" X32 UNEF (ZSL)
- Shaft diameter : Metric - 6mm (MSL)
 Inch - 1/4" (ZSL)
- Mechanical angle : 360° without stop
- Long life
- Interconnection :
 3 core flat cable 0.15 mtr long (std),
 terminal block (option)

Type	22A M/Z SL RCB
Electrical angle	0 - 20° to 0 - 360° in 1°step 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 Steps	4096 (12 bit)
Mech.speed (Max)	1000 rpm
Elec. speed	160 rpm (std) / 800 rpm (option)
Life (rotations)	~ 5 mil. rotations

22A M/Z SL RCBB

Bush Mount : 22 mm Ø *Silverline* Precision Analog Rotary Position Sensor



Interconnection -
Flat cable OCF (Standard)

Link for Datasheet :
www.rotacol.info/22amslrcbb.pdf
www.rotacol.info/22azslrcbb.pdf

- Economical Hall effect magnetic sensor
- Robust metal aluminium housing with ball bearing (RCBB)
- Bush mounting -
 Metric M10 X 0.75 (MSL)
 Inch 3/8" X32 UNEF (ZSL)
- Shaft diameter : Metric - 6mm (MSL)
 Inch - 1/4" (ZSL)
- Mechanical angle : 360° without stop
- Long life
- Interconnection :
 3 core flat cable 0.15 mtr long (std),
 terminal block (option)

Type	22A M/Z SL RCBB
Electrical angle	0 - 20° to 0 - 360° in 1°step prog.(std 360°)
Supply voltage	5V±10% / 9-30VDC / 15-30V DC
Output signal	0-5V ratiometric; 0-5V ; 0-10V DC Single/dual channel, 0-20mA; 4-20mA
Resolution Steps	4096 (12 bit)
Mech. speed (Max)	4000 rpm
Elec. speed	160 rpm (std) / 800 rpm (option)
Life (rotations)	~ 15 mil. rotations