

Bush Mount : PWM 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. Endstops 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% with output signal of PWM is provided. PWM as a 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.

22W ERCB

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



Interconnection -
3 core flat cable of 0.15mtr

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

- 22mm Ø plastic housing
- Hall CMOS technology
- Pulse width modulated 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

22W ERCB

Electrical angle	0°- 20° to 0° - 360° in 1° step prog. (std 360°)
Supply voltage	5V VDC ±10%
Output signal	PWM single / dual channel
Resolution	4096 steps (12 bit)
Mech.speed (max)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	160 rpm
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

28W ERCB

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



Interconnection - 3 core flat
cable of 0.15 mtr

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

- 28mm Ø plastic housing
- Hall CMOS technology
- Pulse width modulated 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

28W ERCB

Electrical angle	0°- 20° to 0° - 360° in 1° step prog. (std 360°)
Supply voltage	5V VDC ±10%
Output signal	PWM single / dual channel
Resolution	4096 steps (12 bit)
Mech.speed (max)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	160 rpm
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

25W RSB

Bush Mount : 25mm Ø *RS Speed Connect* PWM Rotary Position Sensor



Interconnection - Cable gland

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

- 25mm Ø plastic housing
- Pulse width modulated 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

25W RSB

Electrical angle	0°-20° to 0° - 360° in 1° step prog. (std 360°)
Supply voltage	5V VDC ±10%
Output signal	PWM single / dual channel
Resolution	4096 steps (12 bit)
Mech.speed (max)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	160 rpm
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

30W RSB

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



Interconnection :
Miniature push- pull connector

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

- 30mm Ø plastic housing
- Pulse width modulated 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)

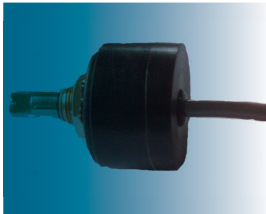
Type

30W 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	PWM single / dual channel
Resolution	4096 steps (12 bit)
Mech.speed (max)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	160 rpm
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

30W LOCB

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



Interconnection : 3 core round Cable
with rubber grommet -OCR

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

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

Type

30W LOCB

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

22W LOCB

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



Interconnection :
3 leads multistrand wire

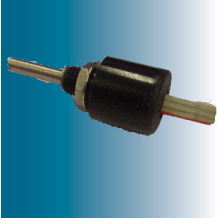
[Link for Datasheet :](http://www.rotacol.info/22wlocb.pdf)
www.rotacol.info/22wlocb.pdf

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

Type

22W LOCB

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

12W M/Z MCB**Bush Mount : 12 mm Ø *Miniline* PWM Rotary Position Sensor**

Interconnection : Flat Cable

Link for Datasheet :
www.rotacol.info/12wmmcb.pdf
www.rotacol.info/12wzmcmb.pdf

- 12 mm Ø metal housing
- Precision Miniature bushing mount
- Pulse width modulated output
- 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)
- Interconnection : 3 core flat cable 0.15 mtr long

Type	12W M/Z MCB
Electrical angle	0-20° to 0-360° in 1°step prog. (std 360°)
Supply voltage	5V DC ±10%
Output signal	PWM Single channel
Resolution steps	4096 (12 bit)
Mech.speed (max)	800 rpm
Elec. speed (max)	160 rpm
Life (rotations)	~ 5 mil. rotations

13W M/Z MCB**Bush Mount : 12 mm Ø *Miniline* PWM Rotary Position Sensor**

Interconnection : terminal lock

Link for Datasheet :
www.rotacol.info/13wmmcb.pdf
www.rotacol.info/13wzmcmb.pdf

- 12 mm Ø metal housing
- Precision Miniature bushing mount
- Low cost , Hall effect technology
- Pulse width modulated output
- 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	13W M/Z MCB
Electrical angle	0-20° to 0-360° in 1°step prog. (std 360°)
Supply voltage	5V DC ±10%
Output signal	PWM Single channel
Resolution steps	4096 (12 bit)
Elec.speed (max)	160 rpm
Life (rotations)	~ 5 mil. rotations

22W M/Z SL RCB**Bush Mount : 22 mm Ø *Silverline* PWM Rotary Position Sensor**

Interconnection : terminal lock

Link for Datasheet :
www.rotacol.info/22wmslrcb.pdf
www.rotacol.info/22wzslrcb.pdf

- 22 mm Ø metal housing
- Sleeve bearing
- Hall effect magnetic sensor
- Robust metal aluminium housing
- Pulse width modulated output
- 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	22W M/Z SL RCB
Electrical angle	0-20° to 0-360° in 1°step prog. (std 360°)
Supply voltage	5V DC ±10%
Output signal	PWM Single/ dual channel
Resolution Steps	4096 (12 bit)
Mech.speed (Max)	1000 rpm
Elec. speed (Max)	160 rpm
Life (rotations)	~ 5 mil. rotations

22W M/Z SL RCBB**Bush Mount : 22 mm Ø *Silverline* PWM Precision Rotary Position Sensor**Interconnection -
Flat cable OCF (Standard)**Link for Datasheet :**
www.rotacol.info/22wmslrcbb.pdf
www.rotacol.info/22wzslrcbb.pdf

- 22 mm Ø metal housing
- Ball bearing
- Hall effect magnetic sensor
- Robust metal aluminium housing
- Pulse width modulated output
- 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	22W M/Z SL RCBB
Electrical angle	0-20° to 0-360° in 1°step prog.(std 360°)
Supply voltage	5V DC ±10%
Output signal	PWM Single / dual channel
Resolution Steps	4096 (12 bit)
Mech. speed (Max)	4000 rpm
Elec. speed (Max)	160 rpm
Life (rotations)	~ 15 mil. rotations