

Bush Mount : SSI Rotary Position Sensor

RotaCol Bush Mount contactless SSI interface rotary position sensors range are available in plastic and metal housings with 22, 25, 28 & 30 mm Ø housing diameter. Bushing size of M9X0.75 / M10X0.75 / 3/8"X32 UNEF with shaft diameters of 6mm and 1/4" 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. With the SSI interface the absolute angular position is provided serially and synchronous to a receiving electronic. The main advantage of the SSI interface is that long cable distances can be overcome by very few data lines. The actual angle of position is provided in 2 byte WORD Grey code with 12 bit over 360°. Output signals of 5V SSI, 24V SSI are available.

22Y ERCB



Interconnection - Flat cable

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

- 22mm Ø plastic housing
- Hall CMOS technology
- 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 (standard) ;
polymer bearing (optional)
- Shock and vibration proof
- Interconnection :
6 core flat cable 0.15 mtr long

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

Type	22Y ERCB
Electrical angle	0 - 360°
Supply voltage	5V±10% / 9-30 VDC
Output signal	5V / 24V SSI
Resolution	4096 steps (12 bit)
Mech.speed (max)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	1600 rpm
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

28Y ERCB



Interconnection - Flat cable

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

- 28mm Ø plastic housing
- Hall CMOS technology
- 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 (standard) ;
polymer bearing (optional)
- Shock and vibration proof
- Interconnection :
6 core flat cable 0.15 mtr long

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

Type	28Y ERCB
Electrical angle	0 - 360°
Supply voltage	5V±10% / 9-30 VDC
Output signal	5V / 24V SSI
Resolution	4096 steps (12 bit)
Mech.speed (max)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	1600 rpm
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

25Y RSB



Interconnection :
Cable gland - OCG

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

- 25mm Ø plastic housing
- 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 (standard) ;
polymer bearing (optional)
- Shock and vibration proof
- Interconnection : cable gland (OCG),
Miniature push-pull connector (OCM),
terminal block axial (OCTA) / radial
(OCTR)

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

Type	25Y RSB
Electrical angle	0 - 360°
Supply voltage	5V±10% / 9-30 VDC
Output signal	5V / 24V SSI
Resolution	4096 steps (12 bit)
Mech.speed (max)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	1600 rpm
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

30Y RSB

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



Interconnection : Mini.
connector - OCM

Link for Datasheet :
www.rotacol.info/30yrsb.pdf

- 30mm Ø plastic housing
- 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 (standard);
polymer bearing (optional)
- Shock and vibration proof
- Interconnection : cable gland (OCG),
Miniature push-pull connector (OCM),
terminal block axial (OCTA) / radial (OCTR)

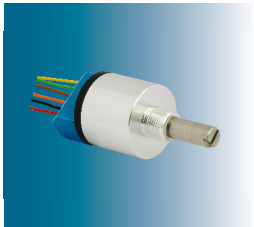
Type

30Y RSB

Electrical angle	0 - 360°
Supply voltage	5V±10% / 9-30 VDC
Output signal	5V / 24V SSI
Resolution	4096 steps (12 bit)
Mech.speed (max)	800 rpm (brass), 3000 rpm (polymer bearing)
Elec. speed (max)	1600 rpm
Rotary life	~ 10 mil. rotations (brass) ~ 15 mil. rotations (polymer bearing)

22Y M/Z SL RCB

Bush Mount : 22 mm ø *Silverline* SSI Rotary Position Sensor



Interconnection -
Terminal Block Axial - OCTA
(Price Adder)

Link for Datasheet :
www.rotacol.info/22ymlrcb.pdf
www.rotacol.info/22yzslrcb.pdf

- 22mm ø metal housing
- Sleeve bearing
- Hall effect magnetic sensor
- Robust metal aluminium housing
- 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 :
6 core flat cable 0.15 mtr long (std),
terminal block (option)

Type

22Y M/Z SL RCB

Electrical angle	0 - 360°
Supply voltage	5V±10% / 9-30 VDC
Output signal	5V / 24V SSI
Resolution Steps	4096 (12 bit)
Mech.speed (Max)	1000 rpm
Elec. speed (Max)	1600 rpm
Life (rotations)	~ 5 million

22Y M/Z SL RCBB

Bush Mount : 22 mm ø *Silverline* SSI Precision Rotary Position Sensor



Interconnection -
Flat cable

Link for Datasheet :
www.rotacol.info/22ymlrcbb.pdf
www.rotacol.info/22yzslrcbb.pdf

- 22mm ø metal housing
- One ball bearing
- Economical Hall effect magnetic sensor
- Robust metal aluminium housing
- 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
- One ball bearing
- Interconnection :
6 core flat cable 0.15 mtr long (std),
terminal block (option)

Type

22Y M/Z SL RCBB

Electrical angle	0 - 360°
Supply voltage	5V±10% / 9-30V DC
Output signal	5V / 24V SSI
Resolution Steps	4096 (12 bit)
Mech. speed (Max)	4000 rpm
Elec. speed (Max)	1600 rpm
Life (rotations)	~ 15 million