

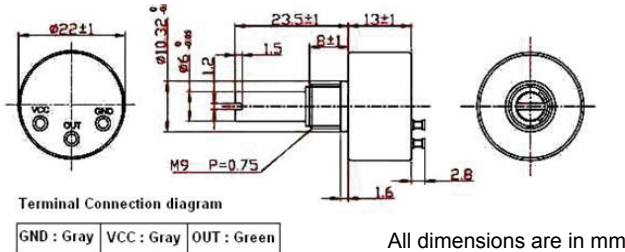
# RotaCol PRECISION ANALOG CONTACTLESS ROTARY POSITION SENSOR



Economical - Metalcase - 1 Ball bearing  
Hall effect magnetic  
Direct potentiometric replacement

## Series 22A RCB

- Robust metal aluminium housing with ball bearing
- Bush mounting
- Shock & vibration proof
- Measurement range 0° - 360°
- Hall effect magnetic contactless
- Ratiometric 5V output



One of the most cost effective modern long - life replacement for precision potentiometer. Also available for supply voltages : 15 - 30V / 9 - 30V output : 0 - 5V, 0 - 10 V, 4 - 20 mA, PWM, redundant 2 channel for 22A RCBL Series. Many options - excellent availability.

### ELECTRICAL CHARACTERISTICS

Electrical angle	0 - 360° any angle from 0 - 20..0 - 360 programmable
Resolution	4096 step (12 bit)
Supply voltage	5V ± 10%
Output signal	Analog 0 - 5V (ratiometric)
Supply current	< 16 mA
Independent linearity tolerance	0.3%

### MECHANICAL CHARACTERISTICS

Mechanical angle	360°
Starting torque	0.5 Ncm
Protection degree	IP 40
Operating temperature	- 40 to +85° C
Operating life (max. radial load 80N)	> 20 million rotations
Max rotating speed	5000 rpm

### MATERIAL

Housing	anodized aluminium
Shaft	stainless steel
Terminals	brass gold plated
Bearings	1 precision ball bearing

### WEBSITES

<a href="http://www.rotacolinfo.com/data">www.rotacolinfo.com /data</a>	Find all information we require from you, to choose the most effective type for you
<a href="http://www.rotacolinfo.com/applications">www.rotacolinfo.com /applications</a>	On this website you find applications and notes, and other hints, how to use Rotacol sensors
<a href="http://www.rotacolinfo.com/pressinformation">www.rotacolinfo.com /pressinformation</a>	A large number of press releases with useful information of different types are available
<a href="http://www.rotacolinfo.com/articles">www.rotacolinfo.com /articles</a>	Technical articles - In order to explain the new technologies several articles have been published and can be seen here.

### OPTIONS AND ORDERING REFERENCES

(\*\*) - Refer to the Detailed Datasheet

Housing diameter	Analog output	RotaCol	Bush version with ball bearing	Supply voltage - 5V ±10% Output signals - 0-5V ratiometric	Angle and electrical rotational direction	Angle and Clockwise (CW) Angle and Counter clockwise (CCW)	Programming options for non - effective electrical angle				Output connection 3 pin
							Delta T/2	Low level	High level	Variable level	
22	A	RC	B	S0505		XXX CW XXXCCW	PEX	PE1 PE2 PE3 PE4	POM	PWM	P
<b>22</b>	<b>A</b>	<b>RC</b>	<b>B</b>	<b>S</b>	<b>XXX CW / CCW</b>		<b>**PEX</b>		<b>**POM</b>	<b>**PWM</b>	<b>P</b>

CW = signal rise clockwise with shaft pointing in north direction

e.g.22 A RC B S0505 360CW P - 22mm diameter, analog output, RotaCol sensor, Bush version, Supply voltage - 5V±10% / Output signal - 0 to 5V (ratiometric), 360 angle and clockwise direction, Output connection 3 Pin

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