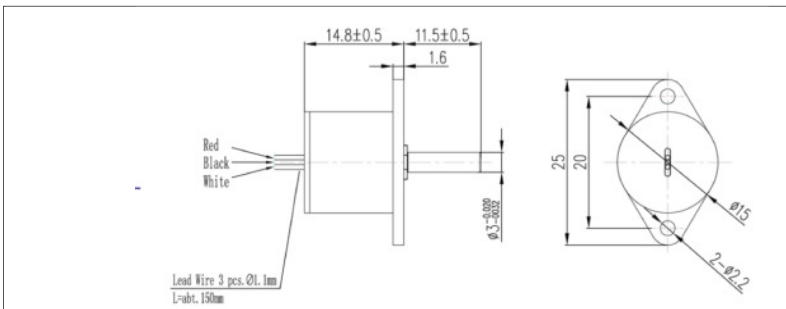


Analog - output , Mini size without endstop  
15mm Ø housing flange, Hall CMOS technology

Voltage output : 0-5V ratiometric

Metal case, Two ball bearings

1-Supply (Red); 2-Output (White); GND-Ground (Black) : For OCW



### ELECTRICAL CHARACTERISTICS

Electrical angle	360° (default)	
Electrical speed (Max.)	160 rpm	
Resolution	4096 step (12 bit)	
Independent linearity tolerance	± 0.5%	
Signal type	Supply voltage	Output signal
S0505	5V ±10%	0 - 5V ratiometric
Supply current (mA)	< 16 mA	
Update rate	1 ms	

### MECHANICAL CHARACTERISTICS

Mechanical angle	360°(continuous)	
Shaft diameter and length (FMS)	3 mm Ø X 11.5 mm	
Mechanical speed (Max.)	4000 rpm	
Rotational life	~ 20 million rotations	
Operating torque (approx.)	0.05 to 0.1 Ncm	
Operating temperature range	- 30 to +80° C	
Protection	IP 65	
Weight	15 g	
Interconnection	3 leads multistrand round wire 0.15 mtr long	

### MATERIAL

Housing	Aluminium anodized
Shaft	Stainless Steel
Bearing	2 ball bearings

### ORDERING INFORMATION

Housing diameter	Analog output	Miniline RotaCol	Flange (shaft 3 mm Ø)	Signal	Electrical angle	Direction of rotation	Output connection
15	A	MC	F	S0505	O360	CW	OCW
15	A	MC	F	S0505	O360	CW	OCW

Example with description - **15A MCF S0505 O360 CW OCW** - 15 mm diameter, Analog output, Miniline RotaCol, Flange mount ( Shaft 3 mm Ø), output signal 0 - 5V (ratiometric), 360°clockwise, 3 leads multistrand round wire 0.15 mtr long

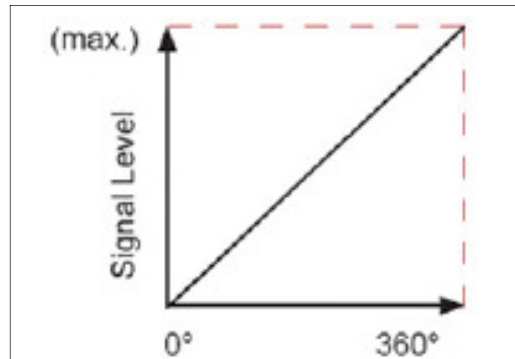


For full range of Rotary Sensor refer - [www.rotacol.info/rotamec.pdf](http://www.rotacol.info/rotamec.pdf)

### FUNCTION PRINCIPLE

The determination of angular position and signal generation is realised by an intelligent CMOS Hall sensor. A diametrical polarised magnet induces its magnetic field into the sensor. It rotates and provides a conditioned signal to the integrated electronic.

### ANALOG OUTPUT



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%. With supply voltage of 5V ± 10% , output signal of 0 - 5V (ratiometric) at the sensor is provided.

### Default Version :

15 mm housing, flange mounting, 360° CW Electrical & Mechanical angle, output signal 0 to 5 V (ratiometric), 3 leads multistrand round wire 0.15 mtr long

### MegAuto KG

Am Tummelsgrund 48  
D 01156 Dresden, Germany  
Tel : +49 351 6587894 0 Fax : +49 351 65878949  
Email : [info@megauto.de](mailto:info@megauto.de) / [www.megauto.de](http://www.megauto.de)  
Skype : megautodd / whats app: +491781244294

### Sensall - MegAuto International

Div of Sendap Precision Electronics Pvt Ltd.  
3, Electronic Sadan - I, MIDC, Bhosari, Pune - 411026, INDIA  
Tel : +91 8669617194, +91 8669617195  
Email : [mail@megacraft.net](mailto:mail@megacraft.net) / [www.sensall.info](http://www.sensall.info)  
Skype: sendapimc / whats app: +91 8669617198

