

Analog - output , Mini size 22mm housing, 360° without endstop

Hall CMOS technology

Output : 0-5V ratiometric, 0-10V, 0-5V, 4-20mA

Metal case, two ball bearings, flange mounting

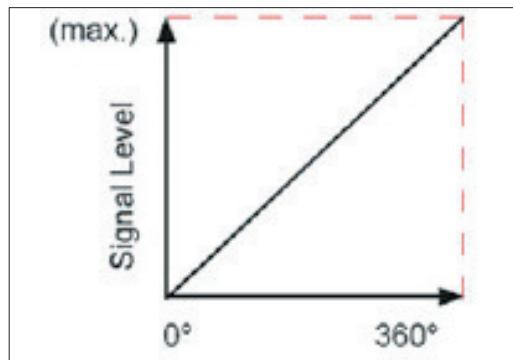


For full range of Rotary Sensor refer - www.rotacol.info/rotamec.pdf

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

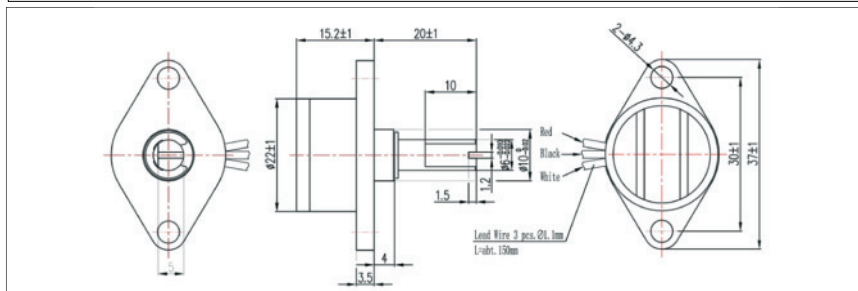


At the output of the sensor a variable voltage is provided proportional to the position of the shaft / axis over a complete angle range of 360 ° or a subrange. The contactless sensor electronic guarantees a steady signal level and a very low linearity error of 0.5%. With supply voltage of 5V ± 10%, 12-24V DC, 15-30V DC output signal of 0 - 5V (ratiometric), 0-5V, 0-10V and 4-20mA at the sensor is provided.

Default Version :

22 mm housing, flange mounting,, 360° CW Electrical & Mechanical angle, 3 leads multistrand round wire 0.15 mtr long

V_{cc}-Supply (Red) OUT-Output (White) GND-Ground (Black) : **For OCV**



ELECTRICAL CHARACTERISTICS

Electrical angle	any angle from 0-20 to 0-360	
Electrical speed (Max.)	160 rpm	
Resolution	4096 steps (12 bit)	
Independent linearity tolerance	± 0.5%	
Signal type	Supply voltage	Output signal
S0505	5V ±10%	0 - 5V ratiometric
SDC05	12-24V DC	0 - 5V
S2410	15-30V DC	0 - 10V
S2442	15-30V DC	4 - 20mA
Supply current (mA)	< 16 mA (for 0505), < 25mA (for DC05, 2410) and < 35mA (2442)	
Update rate	1 ms	

MECHANICAL CHARACTERISTICS

Mechanical angle	360°(continuous)
Shaft diameter and length (FMS)	6 mm Ø X 20 mm
Mechanical speed (Max.)	4000 rpm
Rotational life	~ 20 million rotations
Operating torque (approx.)	0.4 to 0. 5 Ncm
Operating temperature range	- 30 to +80° C
Protection	IP 54
Weight	25 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 6 mm Ø)	Signal	Electrical angle	Direction of rotation	Output connection
22	A	MC	F	0 - 5V (ratiometric) 0-5V 0-10V 4-20mA	360° continuous clockwise	Clockwise (CW) - (default)	3 leads multistrand round wire 0.15 mtr long
22	A	MC	F	Sxxxx	O360	CW	OCW

Example with description - **22A MCF S0505 O360 CW OCW** -22 mm diameter, analog output, Miniline RotaCol (Shaft 6 mm Ø), Flange mount , output signal 0 - 5V (ratiometric), 360° angle and clockwise, 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 / 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 / www.sensall.info
Skype: sendapimc / whats app: +91 8669617198



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